Hytera

SERVICE MANUAL

DIGITAL MOBILE RADIO



Preface

This manual describes the information related to the product repair. It is intended for use by qualified technicians only. To repair the product properly, please read this manual carefully before repairing.

This manual is applicable to the following product:
MD78X Digital Mobile Radio (X may indicate 2, 5, 6 or 8)
MD78XG Digital Mobile Radio (X may indicate 2, 5, 6 or 8)

- UHF1 (400 – 470 MHz)
- UHF2 (450 – 520 MHz)
- UHF3 (350 – 400 MHz)
- UHF5 (806 – 941 MHz)
- VHF (136 – 174 MHz)

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U.S. Patent No: #6,912,495 B2, #6,199,037 B1, #5,870,405, #5,826,222, #5,754,974, #5,701,390, #5,715,365, #5,649,050, #5,630,011, #5,581,656, #5,517,511, #5,491,772, #5,247,579, #5,226,084 and #5,195,166.

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Documentation Information

Conventions

Icon Conventions

Icon	Description
Tip	Indicates information that can help you make better use of your product.
Note	Indicates references that can further describe the related topics.
Caution	Indicates situations that could cause data loss or equipment damage.
Warning	Indicates situations that could cause minor personal injury.
Danger	Indicates situations that could cause major personal injury or even death.

Notation Conventions

Notation	Description
“ ”	The quotation marks enclose the name of a software interface element. For example, click “OK”.
Bold	The text in boldface denotes the name of a hardware button. For example, press the **PTT** key.
->	The symbol directs you to access a multi-level menu. For example, to select “New” from the “File” menu, we will describe it as follows: “File -> New”.

Revision History

Version	Release Date	Description
R7.0	04-2016	Updated the description about UHF1, UHF2, UHF3, UHF5, and VHF.
R5.0	06-2013	Added the description about UHF5.
R3.5	10-2011	Added the description about VHF, UHF2, and UHF3.
R1.0	10-2010	Initial release.

UHF1 (400 – 470 MHz)

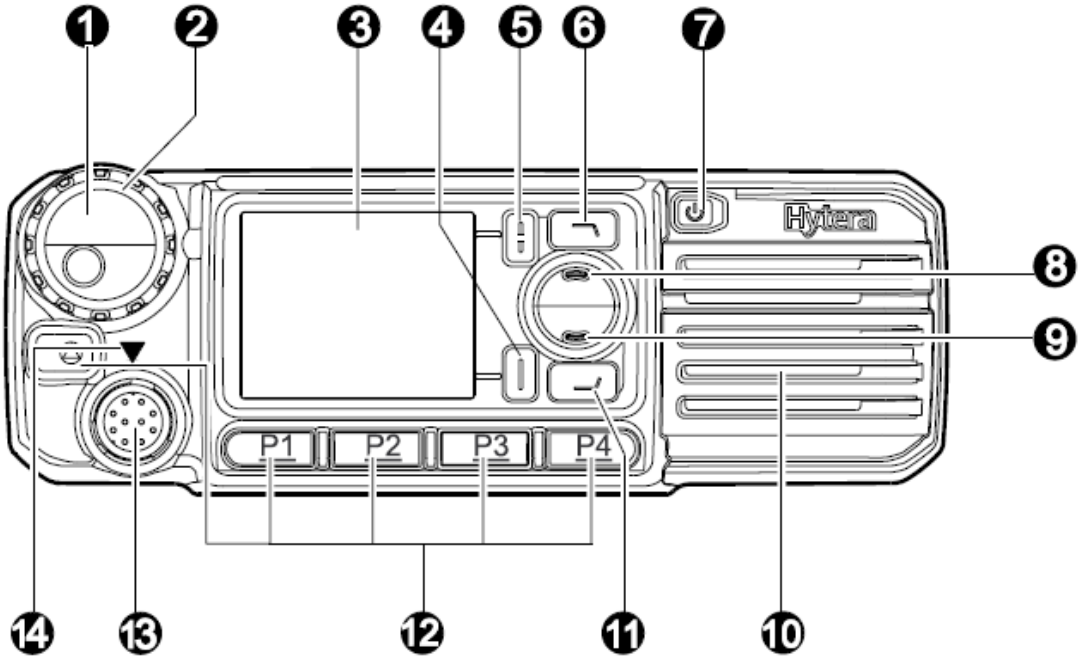
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1. Product Controls

Front Panel

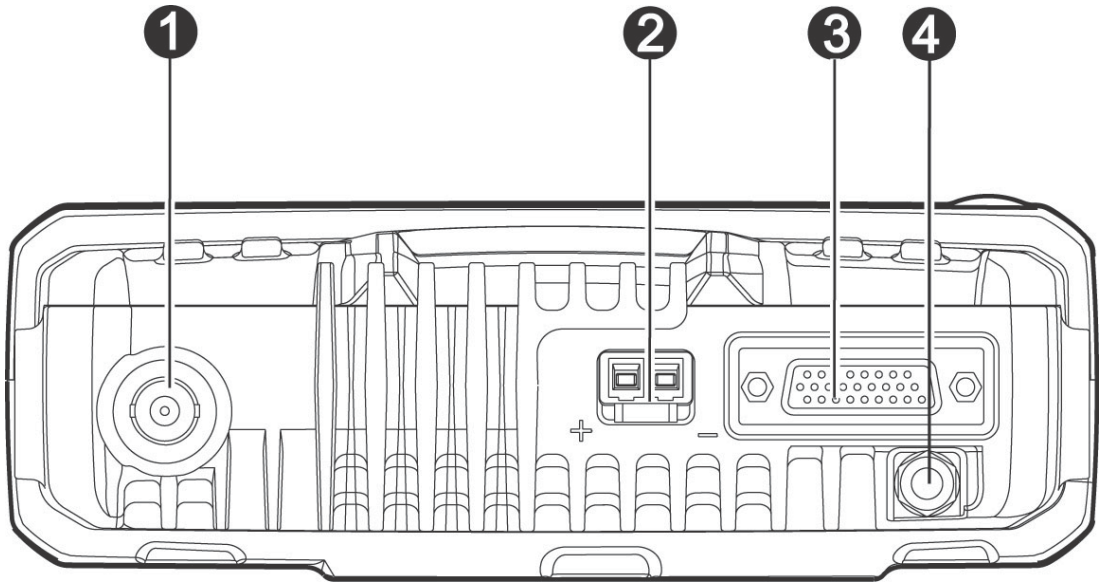


No.	Part Name	No.	Part Name
1	Volume Control/Group Call Selector Knob	8	Up Key
2	LED Indicator	9	Down Key
3	LCD Display	10	Speaker
4	OK/Menu Key	11	Redial/Answer/Call Key
5	Back/Group Call Management Key	12	Programmable Keys
6	Dial-back/End/Home Screen Key	13	Microphone Connector
7	Power On/Off Key	14	Microphone Installation Index

Note

The above-mentioned product control is based on the mobile radio in the trunking mode. In the conventional mode, No. 1 serves as Volume Control / Channel Selector Knob, and No. 6 & No.11 serve as the Programmable Keys.

Rear Panel



No.	Part Name	No.	Part Name
1	RF Antenna Connector	3	Accessory Connector
2	Power Inlet	4	GPS Antenna Connector

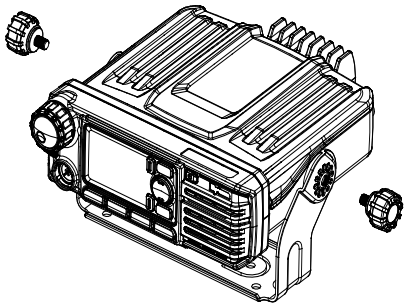
Note

The GPS antenna interface is only available for MD78XG.

2. Disassembly and Reassembly

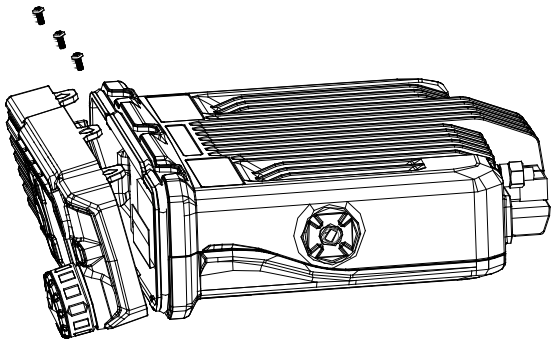
2.1 Disassembling the Radio

Step 1 Turn off the radio and remove the power cord, and loosen the two screws to remove the radio.

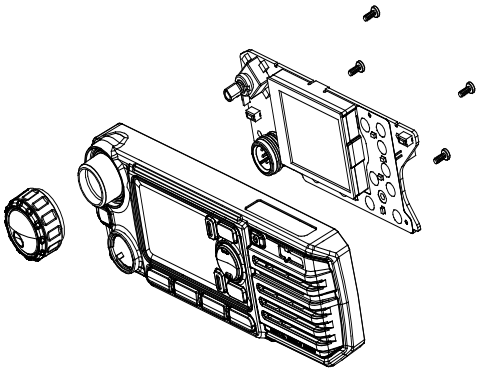


Step 2 Remove the antenna.

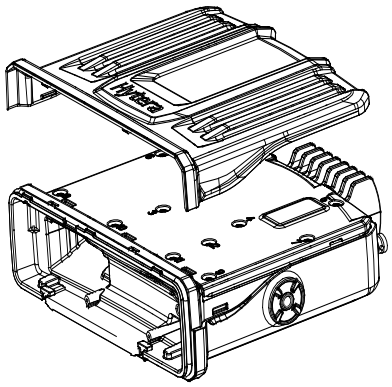
Step 3 Loosen the three screws to remove the front panel. Then remove the FFC.



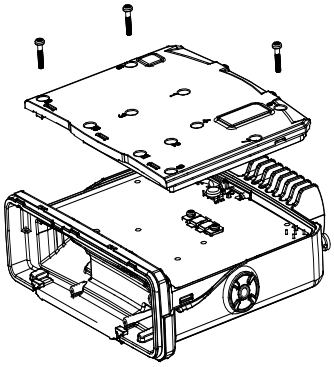
Step 4 Detach the volume control knob and loosen the four screws. Then remove the PCB from the control panel.



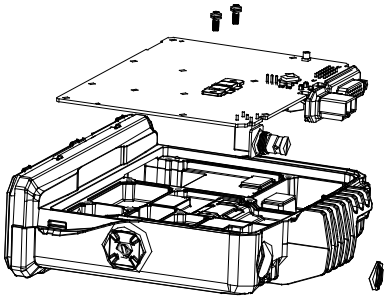
Step 5 Undo the clips on both sides of the radio, and then remove the rear cover.



Step 6 Loosen the eleven screws to remove the upper shield cover.



Step 7 Loosen the screw fixing the antenna connector and two screws fixing the PA module. Then take the PCB out.

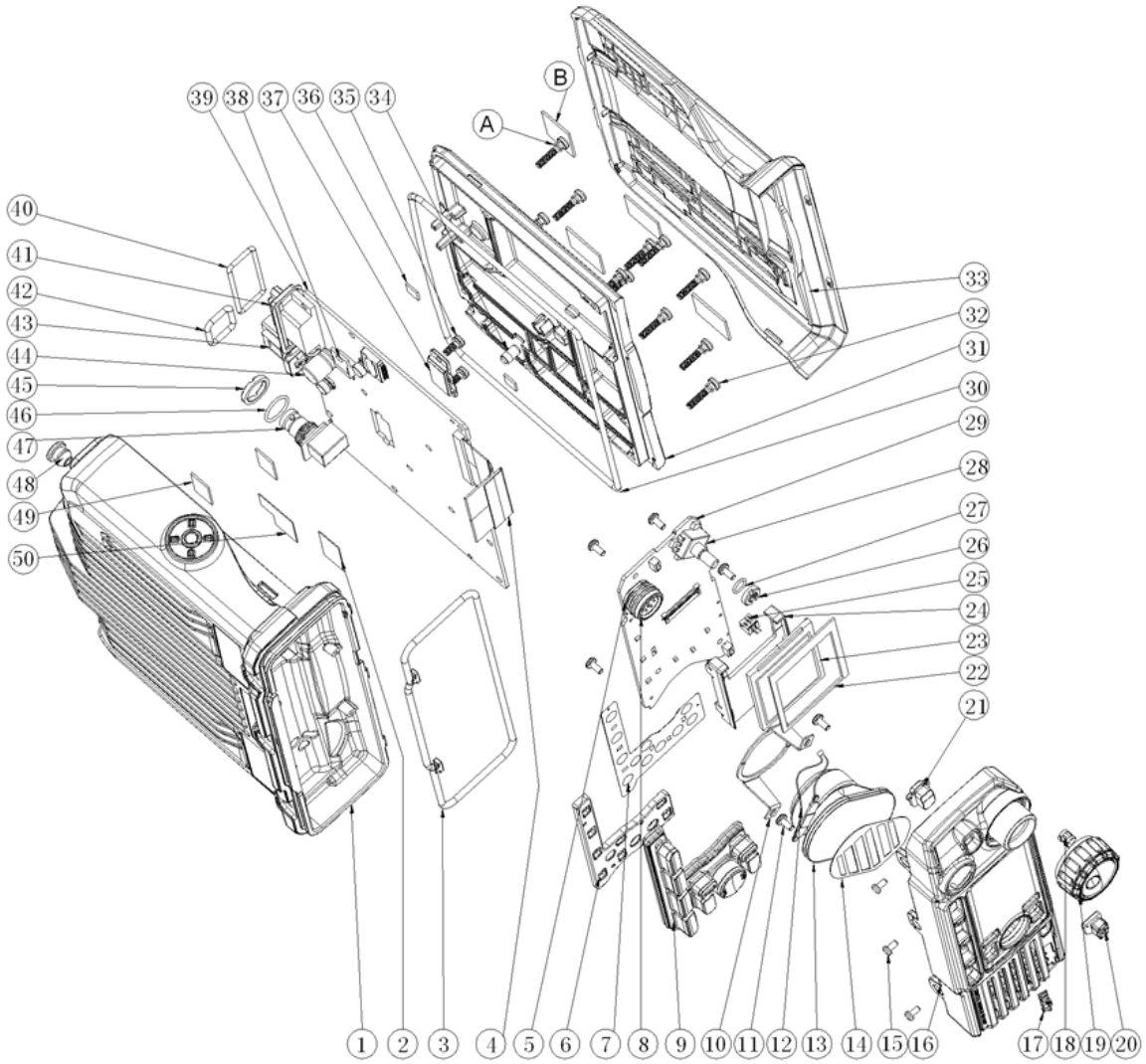


2.2 Reassembling the Radio

To reassemble the radio, perform the above steps in a reverse way.

3. Exploded View and Packing Guide

3.1 Exploded View



Part list:

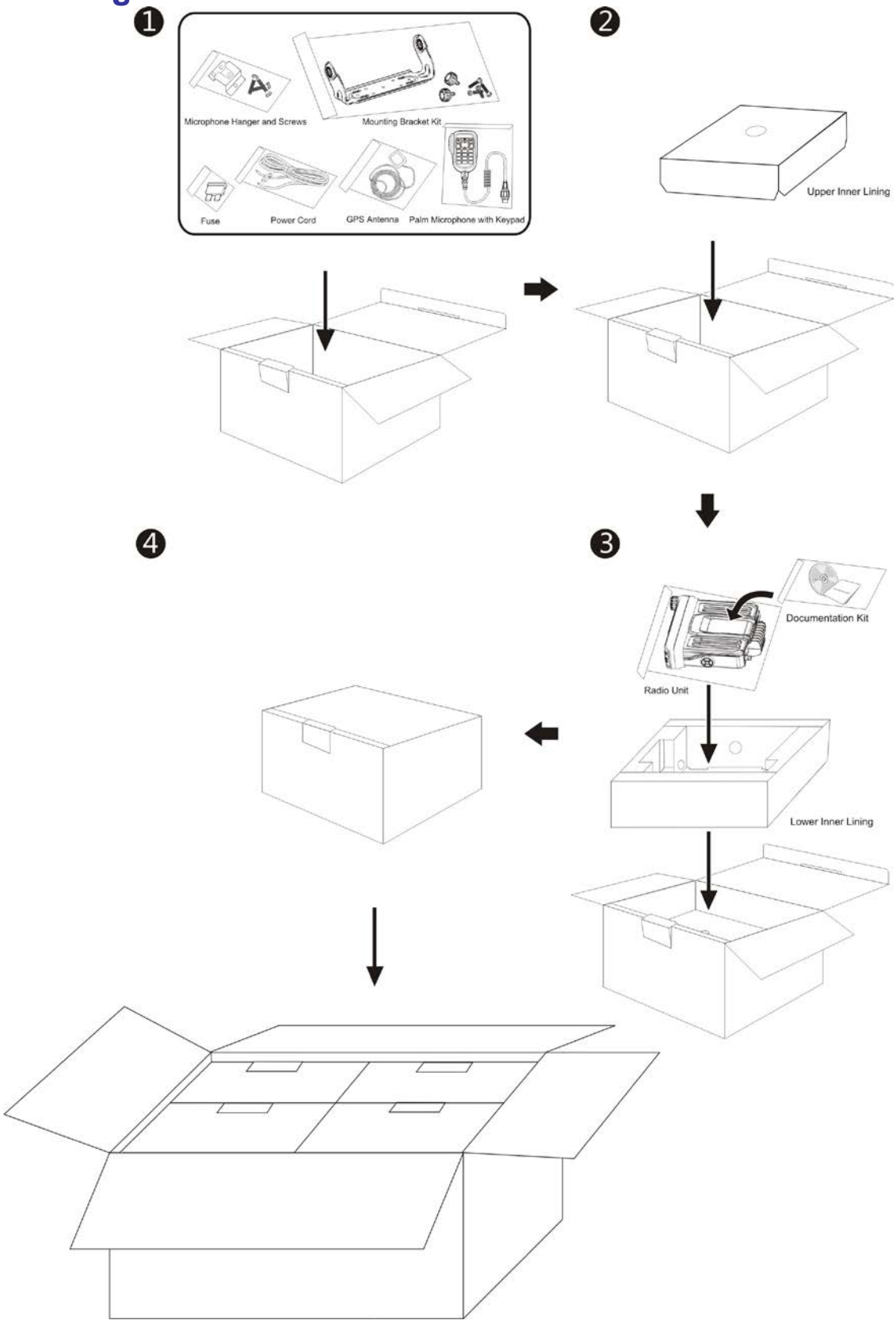
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
1	6300109000000	Aluminum chassis	1	27	6100334000000	O-ring for encoder switch	1
2	7500358000000	Heat sink pad	1	28	4399030000020	Rotary switch	1
3	6100492101000	Waterproof ring for front case	1	29	41078001000J0	PCB for control panel	1
4	4210090000200	Signal cable	1	30	6100533101000	Waterproof ring for aluminum chassis	1
5	5208010100010	Connector (male)	1	31	6300126000000	Upper cover of the aluminum chassis	1
6	6001079000000	Light-guide plate for keys	1	32	7103015000000	Machine screw	11
7	7300048000000	Metal dome	1	33	6001080000000	Plastic upper cover	1
8	6100408001000	Waterproof ring for microphone jack	1	34	6100496000000	Conductive silicone rubber for main board	1
9	6100488000000	P+R front panel keys	1	35	7103008000400	Machine screw	2
10	6201893000000	Speaker fixing sheet	1	36	7500272000000	Heat sink pad	2
11	7102606021000	Self-tapping screw	6	37	/	Semi-finished PA with	1

No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
						heat sink pad	
12	4210080000700	Speaker cable (with 2-Pin plug)	1	38	3414999000020	PNP transistor	1
13	5001210000390	Speaker	1	39	/	Main PCB	1
14	7400297000000	Speaker felt	1	40	6100532100000	D_SUB waterproof ring	1
15	7102505000110	Machine screw	3	41	5208026100000	Jack	1
16	6001076000010	Front case for control panel	1	42	6100530100000	Waterproof ring for power socket	1
17	860P580600100	Logo	1	43	5205002100110	Power socket (male)	1
18	6201739000000	Inner lining for knob	1	44	3103994770150	Electrolytic capacitor	1
19	6000876000000	Encoder knob	1	45	7212002500000	Nut	1
20	6100493000000	Power on/off key	1	46	6100531100000	Waterproof ring for antenna connector	1
21	6100404000000	Emergency key	1	47	4401000009000	BNC RF connector	1
22	7500344000000	PORON pad	1	48	6100494000000	GPS soft stopple	1
23	5130000000040	TFT LCD 2.0" TFT	1	49	7500159000100	Thermal conductive silicone rubber	2
24	6001078000000	LCD bracket	1	50	7500357000000	Heat sink pad	1
25	5202002100270	Board-to-wire connector	1	A	6100574100000	O_ring	11
26	7207003700000	Nut	1	B	7500344000000	PORON pad	1

Note

Parts that are not marked with Part No. may vary with the radio frequency band.

3.2 Packing Guide



4. Specifications and Blind Spot

4.1 Specifications

General	
Frequency Range	400 – 470 MHz
Channel Capacity	1024
Group Capacity	64 (each with a maximum of 16 channels)
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz
Operating Voltage	13.6V±15% DC
Current Drain	● Standby: <0.6 A ● Receive: <2.0 A ● Transmit: 5 W: <5 A; 25 W: <8 A, 45 W: <12 A
Frequency Stability	±1.5 ppm
Antenna Impedance	50 Ω
Dimensions (H×W×D)	60 mm × 174 mm × 200 mm (2.4 inch × 6.9 inch × 7.9 inch)
Weight	1.7 kg (3.75 lbs)
LCD Display	220*176 pixels, 262000 colors, 2.0-inch, 4 rows
Transmitter	
Power Output	● Low: 5 – 25 W ● High: 5 – 45 W
Conducted/Radiated Emission	● -36 dBm <1 GHz ● -30 dBm >1 GHz
FM Modulation	● 11K0F3E@12.5 kHz ● 14K0F3E@20 kHz ● 16K0F3E@25 kHz
4FSK Digital Modulation	● 12.5 kHz (data only): 7K60FXD

	● 12.5 kHz (data and voice): 7K60FXW
Modulation Limit	● ±2.5 kHz@12.5 kHz ● ±4.0 kHz@20 kHz ● ±5.0 kHz@25 kHz
FM Hum and Noise	● 40 dB@12.5 kHz ● 43 dB@20 kHz ● 45 dB@25 kHz
Adjacent Channel Power	● 60 dB@12.5 kHz ● 70 dB@20/25 kHz
Audio Response	+1 dB to -3 dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE++ or SELP
Digital Protocol	ETSI-TS102 361-1, -2, -3
Receiver	
Sensitivity	Analog: ● 0.3 μV (12 dB SINAD) ● 0.22 μV (Typical) (12 dB SINAD) ● 0.4 μV (20 dB SINAD) Digital: ● 0.3 μV /BER5%
Adjacent Channel Selectivity	● TIA-603: 65 dB@12.5 kHz/75 dB@20/25 kHz ● ETSI: 60 dB@12.5 kHz/75 dB@20/25 kHz
Intermodulation	● TIA-603: 75 dB@12.5/20/25 kHz ● ETSI: 70 dB@12.5/20/25 kHz
Spurious Response Rejection	● TIA-603: 75 dB@12.5/20/25 kHz ● ETSI: 70 dB@12.5/20/25 kHz
Blocking	● TIA-603: 90 dB ● ETSI: 84 dB

Hum and Noise	● 40 dB@12.5 kHz ● 43 dB@20 kHz ● 45 dB@25 kHz
Rated Audio Power	● Internal (20 Ω load): 3 W ● External (8 Ω load): 7.5 W
Max. Audio Power	● Internal (20 Ω load): 8 W ● External (8 Ω load): 20 W
Rated Audio Distortion	≤ 3%
Audio Response	+1 dB to -3 dB
Conducted Spurious Emission	< -57 dBm
Environment	
Operating Temperature	-30℃ to +60℃
Storage Temperature	-40℃ to +85℃
ESD	IEC 61000-4-2 (level4) ±8 kV (contact) ±15 kV (air)
American Military Standard	MIL-STD-810 C/D/E/F/G
Dust & Water Protection	IP54
Humidity	Per MIL-STD-810 C/D/E/F/G Standards
Shock and Vibration	Per MIL-STD-810 C/D/E/F/G Standards
GPS (for MD780XG only)	
Accuracy specs are for long-term tracking (95th percentile values>5 satellites visible at a nominal -130dBm signal strength).	
TTFF (Time To First Fix)	< 60s

Cold Start	
TTFF (Time To First Fix) Hot Start	<10s
Horizontal Accuracy	<10 m

Note

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

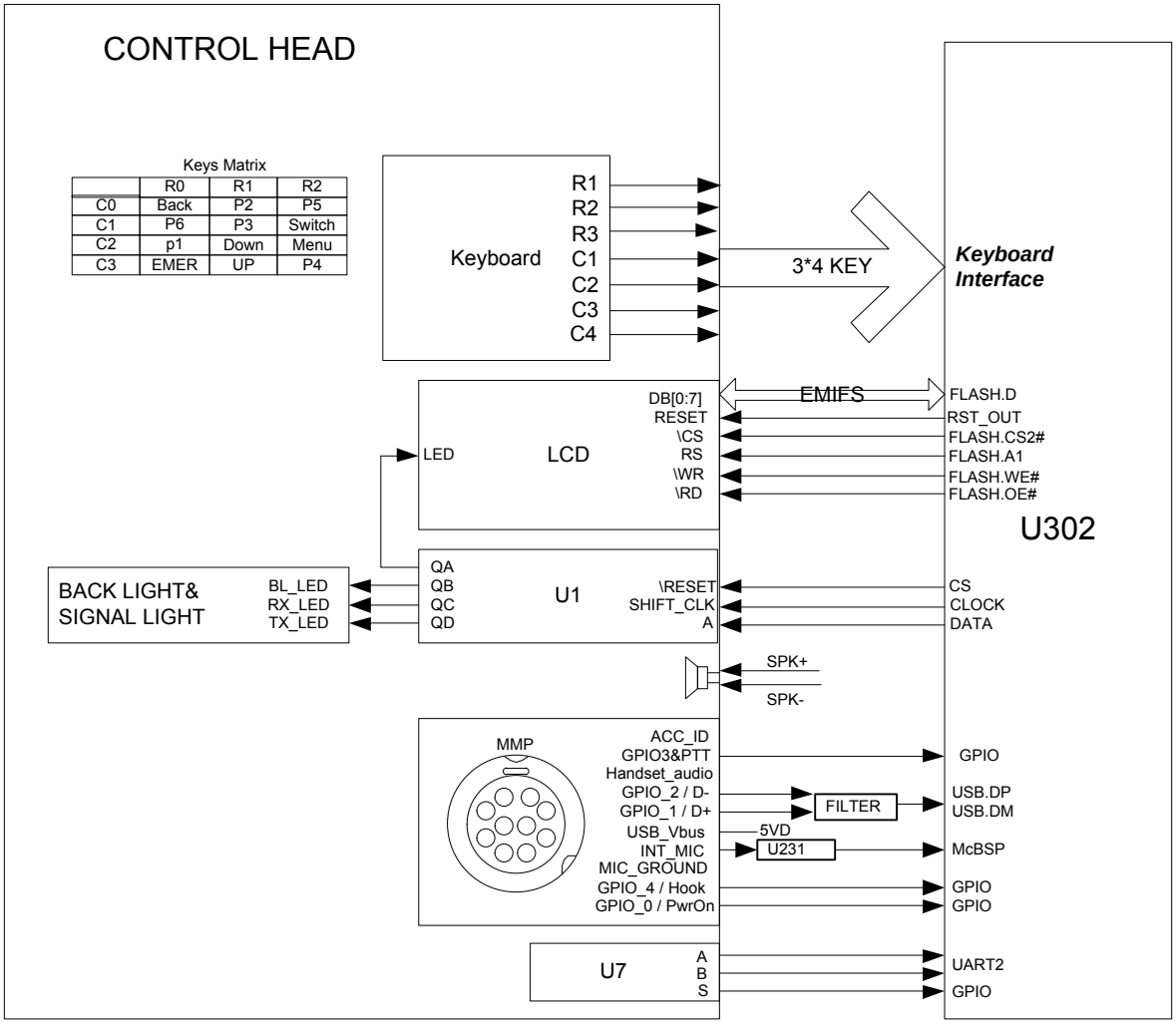
4.2 Blind Spot

No.	Blind Spot (MHz)	No.	Blind Spot (MHz)
1	403.2	5	414
2	422.4	6	432
3	441.6	7	450
4	460.8	8	468

5. Circuit Description

5.1 Front Panel

Front panel includes components such as power supply, keys, LCD, LED indicators, backlight, MMC interface and volume control knob. The function diagram is shown below.



Power Supply

The power supply of the main board powers the front panel via U902 (5 V), and serves as the power supply for LED indicator, backlight and USB devices. Then the power is further fed to U5, so as to power the LCD module and U1 (serial-to-parallel converter IC).

Keys

The front panel includes 12 keys, each of which has different functions in different operation mode. The identifications of each key on the front panel are realized by the 3*4 matrix keyboard.

Key	Conventional Mode	Trunking Mode
Programmable Keys	S2, S3, S7, S8, S9, S10, and S12	S3, S7, S9, S10, and S12

Key	Conventional Mode	Trunking Mode
Navigation Key	S5 and S11	
OK/Menu Key	S4	
Back/Group Call Management Key	S6	
Power On/Off Key	S1	
Dial-back/End/Home Screen Key	/	S2
Redial/Answer/Call Key	/	S8

LCD

The front panel adopts TFT LCD to transfer data to U302 via the EMIFS data bus. The control signals include read/write enable signal, memory chip select signal, LCD chip select signal and reset signal, each of which is pulled up by R36, R35, R34, R33 and R6 respectively. The LCD module is powered by U5 which converts 5 V into 3.3 V.

LED Indicator and Backlight

The LED enable signal is fed to the serial-to-parallel converter IC (U1), and then is output by U302. RX status is indicated by green LED, and TX status by red LED. Backlight is activated upon any key press.

The red and green LEDs in series are powered by U902 (5 V) and controlled by Q2 and Q3. The backlight is also powered by U902 (5 V) and controlled by Q1. Control signals are output via U1.

MMC

For details, please refer to *Interface Definition.*

Audio Output

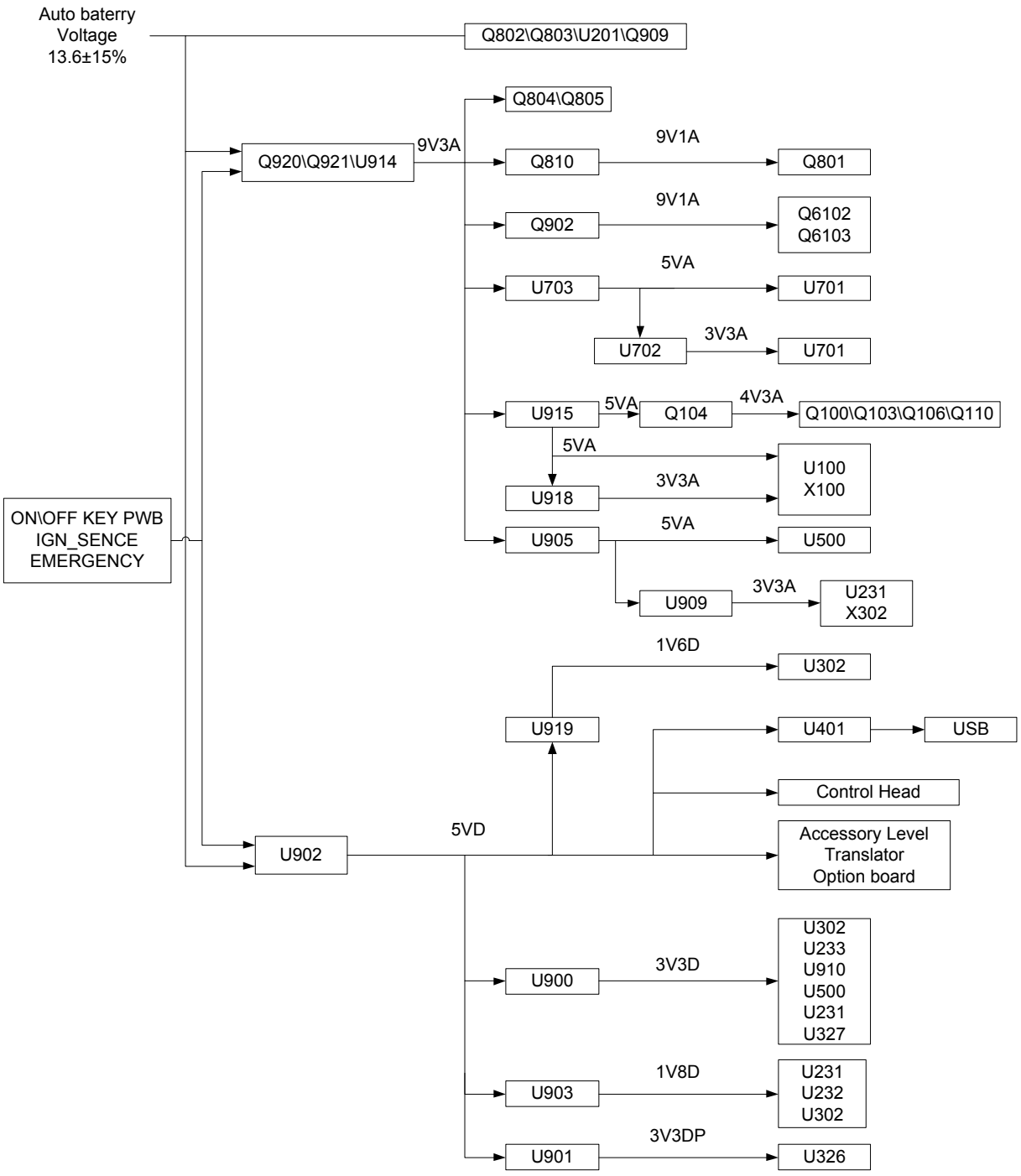
The front panel provides two audio outputs: Handset_audio and Internal_audio (SPK±). Handset_audio is the external output of received audio via MMC interface, while Internal_audio (SPK±) is connected to the internal speaker.

Volume Control

The volume control is facilitated by the rotary encoder switch (U7), which generates signals to be fed to U302 through GPIO17 and GPIO18 for volume adjustment.

5.2 Baseband

5.2.1 Power Supply Module



Both the baseband control IC and the RF section can convert the supplied voltage to an appropriate one via the voltage converter.

- Supply for RF: U914, Q920, and Q921 supply power for the RF section by high current PNP transistor and comparator, which can work as Low Dropout Regulator (LDR).
- Supply for FGU: U918 and U915 supply 3.3V and 5V respectively to U100.

- Supply for Baseband: The processor U302 is supplied by 3.3 V (U900), 1.8 V (U903) and 1.6 V (U919); the memory (U232/U233) is supplied by 3.3 V (U900) and 1.8 V (U903) respectively; the audio processor IC (U231) is supplied by 3.3 V (U905&U909&U900) and 1.8 V (U903); the DAC (U500) is supplied by 5 V (U905) and 3.3 V (U900).
- EXT_SWB+: It is supplied by 13.6 V (Q909).

5.2.2 Control Module

Power On/Off

The mobile radio can be powered on/off through any of the following methods:

- Power On/Off Key

  The mobile radio is turned on via the **Power On/Off** key. As this key is pressed, R944 becomes grounded and Q910 is on. Then Q905 outputs high-level signal, causing U902 and Q920 to start working. Afterwards, the processor (U302) executes user routines to maintain a high-level power control signal (PWR_CTR).In this case, the radio starts to work properly after the **Power On/Off** key is released.

  The mobile radio is turned off via the **Power On/Off** key. After this key is pressed, LQ910 is on and a low-level signal (PWB) to power off the radio is detected by U302, which then controls PWR_CTRL to output low level. Afterwards, the radio becomes powered off.

- Ignition Sense

  The mobile radio can be turned on when ignition is sensed. When the voltage of ignition signal exceeds 7 V, Q1 will be turned on by charging of C933, R955 and R956. As a result, the PNP transistor of Q905 will be further turned on to power the mobile radio. Meanwhile, Q401 will also be turned on, and U302 will identify ignition signals by detecting the signal from Q401; afterwards, the level PWR_CTRL is generated by the processor.

- Emergency

  When the emergency alarm pin is at low level, R940 is grounded, and Q906 is turned on to supply power for the mobile radio. Meanwhile, Q908 is also turned on and the low level is detected from U302. At this time, if the mobile radio is off, the PWR_CTRL signal will be output to power on the mobile radio and the emergency signal will be output. However, if the mobile radio is already on, the emergency alarm pin will be at lower level and only the emergency signal will be output.

Power-on process:

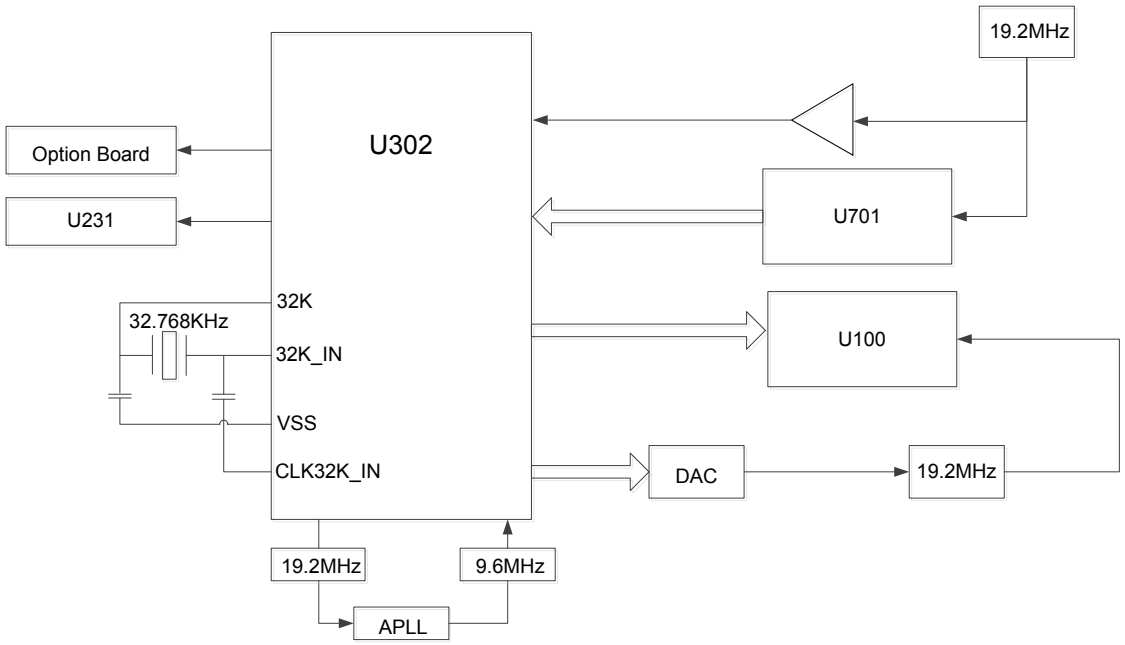
Step 1 Power on the mobile radio using one of the three methods (**Power On/Off** key, Ignition Sense, or Emergency);

Step 2 U917 generates reset signal and remains low level for 1.25 seconds, allowing the processor (U302) to get started.

Step 3 Power-on signal is sent to the processor (U302).

Step 4 After receiving the signal, the processor (U302) generates the level of PWR_CTRL. Then the power-up procedures are completed.

Clock



- Input Clock

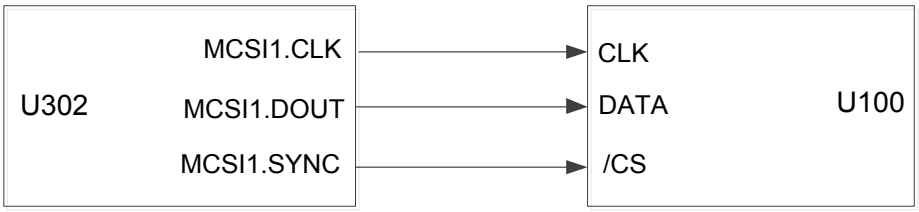
  The 32K clock provided by X375 is mainly used for timing and sleeping of the mobile radio. Its frequency (32.768 kHz) is divided by U302 (32768 times in all) to 1Hz for counting seconds. The system clock (19.2MHz) is generated by an external crystal oscillator.

- Output Clock

  The baseband outputs clock signals to U231, U100 and Option Board respectively.

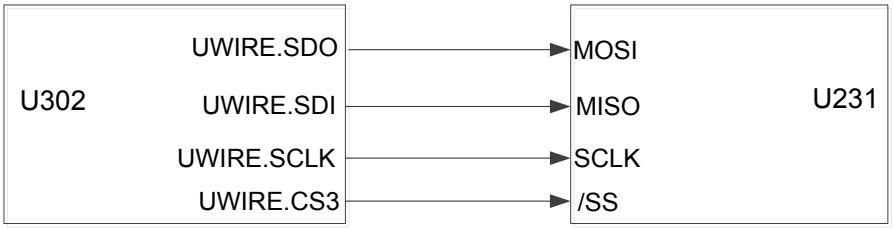
Interface Distribution

- MCSI Interface



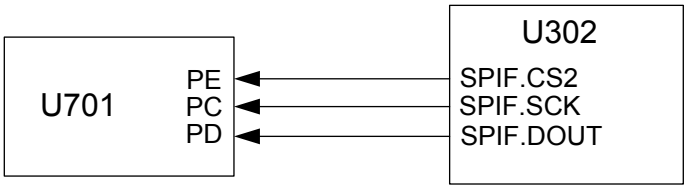
When U302 is communicating with U100, it works in Master Mode with clock frequency of up to 9.6 MHz. U100 uses MCSI1.CLK as the clock, MCSI1.DOUT as data cable to configure its register, and MCSI1.SYNC as chip select signal.

- MICROWIRE Interface



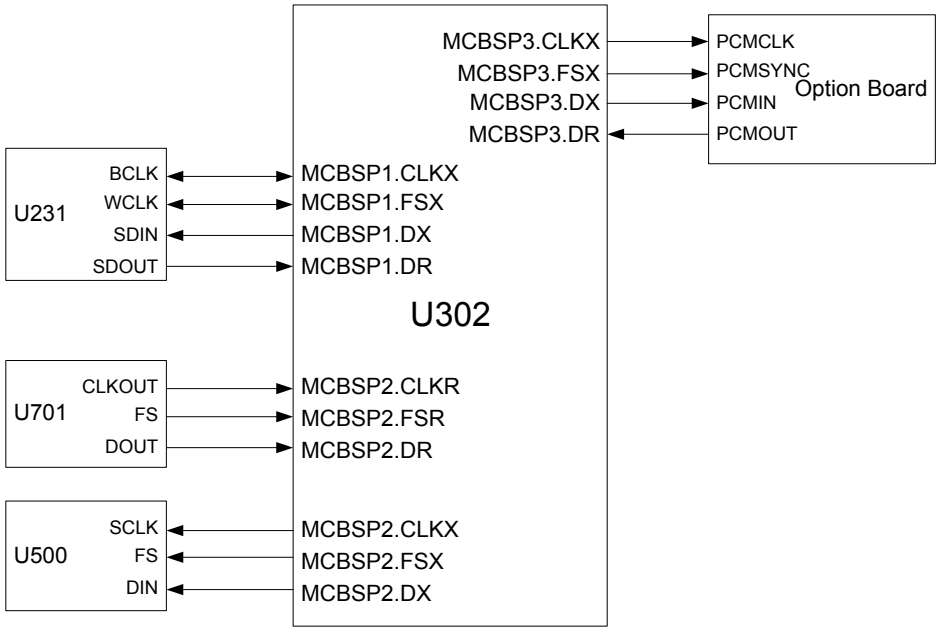
The MICROWIRE interface can accommodate four external devices at most, generally transmitting control and status messages of external devices, and reading data from ROM. Its maximum clock frequency is a quarter of system clock frequency. In this case, MICROWIRE is used to configure or read from the audio processor U231 and requires chip select signal CS3.

- Serial peripheral interface (SPI)



SPI of the processor U302 operates in Master mode, and it is controlled by MPU or DMA. In Master Mode, U302 can provide four chip select signals, of which CS2 is used to control the Intermediate Frequency (IF) digital processor U701.

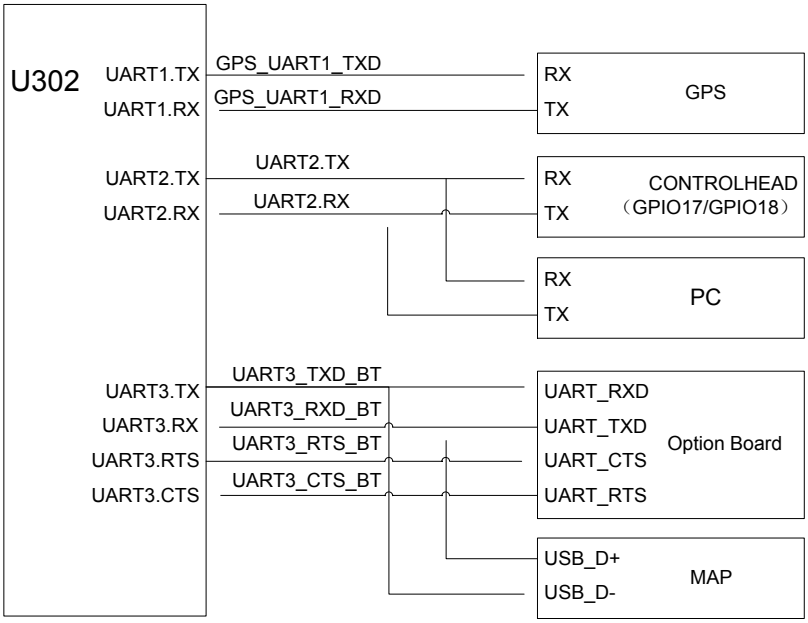
- Serial Synchronous Interface (SSI)



U302 provides three MCBSP interfaces including MCBSP1, MCBSP2 and MCBSP3, which are compatible with various interfaces.

- MCBSP1 is connected to the interface I2C of audio processor U231, to realize two-way transmission of digital voice and data.
- MCBSP2 uses independent clock and frame synchronization for transmission and reception. The SSI of U701 is connected to the RX end of MCBSP2 for U302. U500 is connected to the TX end of MCBSP2. In this case, U302 works in Master mode.
- MCBSP3 is connected to the Option Board interface for voice and data transmission.

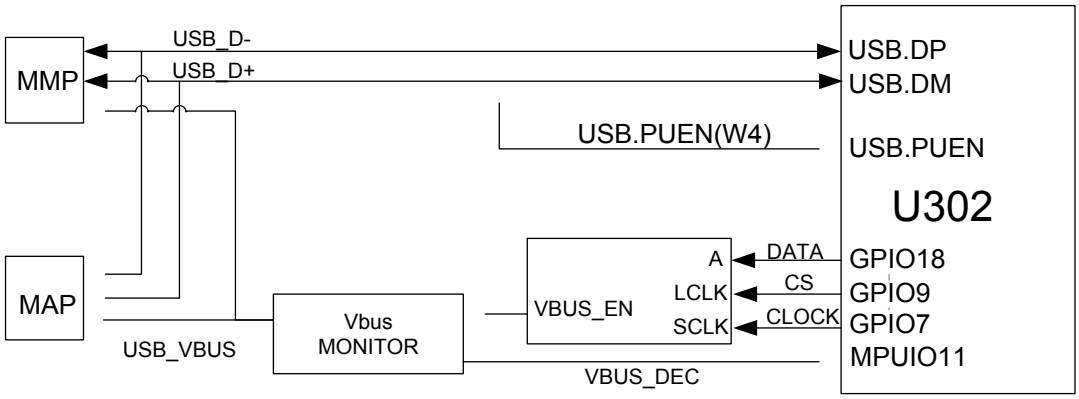
- UART Interface



Processor U302 provides three UART interfaces, which are used to communicate with different external devices.

- UART1 is used for communication with GPS module.
- UART2 is used for communication with front panel (GPIO17 and GPIO18).
- UART3 is used for communication with the Option Board and accessory connector.

- USB Interface



The mobile radio provides two USB interfaces, which are connected to the same USB signal port of the processor U302.

- Mobile Accessory Connector (MAC)

Mobile accessory connector contains audio interface, programmable I/O port, serial port, USB port, accessory identifier port and etc, which are applied for further development. For details, see 7 Interface Definition.

- Option Board Interface

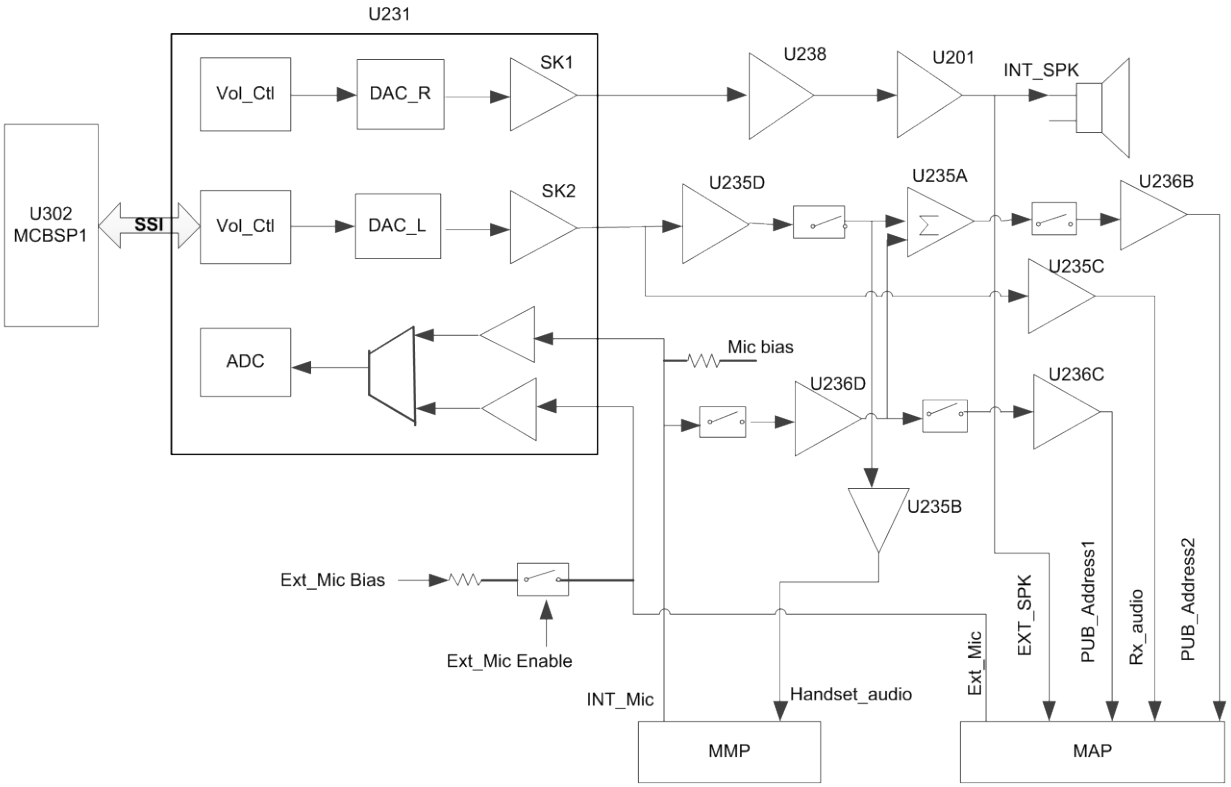
  J400, an option board interface, is used to achieve specific function by connecting to the designated option board. The definition of each pin is listed as below:

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remarks
1 3 5 7 9	GPIO1 GPIO2 GPIO3 GPIO4 GPIO5	GPIO GPIO GPIO GPIO RESET-OUT	I/O I/O I/O O O	VIH MIN=0.7VDD VIL MAX=0.3VDD VOH MIN=0.8VDD VOL MAX=0.22VDD	GPIO5: output signal of resetting the option board. GPIO4/GPIO5: Unidirectional output interfaces. They require their input resistances are greater than or equal to 47 kΩ.
11 13 15 17	UART-TX UART-RX UART-CTS UART-RTS	UART	O I I O		UART
2 4	I2C –SDA I2C -SCL	I2C	I/O O		I2C
6 8 10 12	MCBSP-DR MCBSP-WCLK MCBSP-DX MCBSP-FSX	MCBSP	I I/O O I/O		McBSP: Multi-channel buffered serial port
14	AGND	AGND	/	/	/
16	AF OB TO MB	AF	I	80 mV (standard output from the option board to the main board)	MAX: 700mV

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remarks
18	AF MB TO OB	AF	O	80 mV (standard output from the main board to the option board)	MAX: 700mV
19	DGND	DGND	/	/	/
20	3V6 or 5V	Power	O	Voltage: 5.0 V	/

5.2.3 Audio Module

The audio module is used to output RX audio and input relay audio and TX audio, which serves as the RX audio path and TX audio path.



- RX Audio Path

  U302 sends digital audio signals to the audio processor codec (U231) via the SSI bus of MCBSP1.This bus is composed of CLKX, FSX, DX and DR. It sends the 16-digit demodulated PCM

audio signal to the codec (U231), and adjusts the signal to appropriate amplitude according to the volume (RMS should be 80 mV when frequency is 1 kHz and deviation is 3 kHz). Then the codec (U231) converts PCM data into analog audio data via DAC.

U231 provides two outputs: SPK1 and SPK2. SPK1 is amplified by U238 and then is fed to the PA U201, to derive two outputs of received audio, which will be applied to the front panel speaker and further development interface respectively. SPK2 is amplified and divided into the four paths of signal Handset_audio, RX_audio, PUB_Address1 and PUB_Address2. The first two paths are amplified by U235, and the last two paths are amplified by U236. Output of Handset_audio, PUB_Address1 and PUB_Address2 are controlled by Q231, Q235 and Q233 respectively.

- TX Audio Path

  The audio processor U231 has two MIC inputs: the internal MIC and external MIC. The internal MIC is connected to the MICIN_HND of U231, and is combined with AUX1 to provide differential input. After 9.3 V is divided by R255 and R264, a bias voltage of about 7 V is provided to the front panel MIC. The external MIC is connected to the MIC_HED of the codec (U231) as a unidirectional input.

  Both MICs are controlled by Q232. When the internal MIC is active, EXT_MIC_EN is at low level, bias voltage of external MIC is disconnected, and the ADC in U231 samples voltage at the MICIN_HND. When external MIC is active, EXT_MIC_EN is at high level, Q232 is turned on, bias voltage is connected, and the ADC in U231 senses only audio data at pin MICIN_HED.

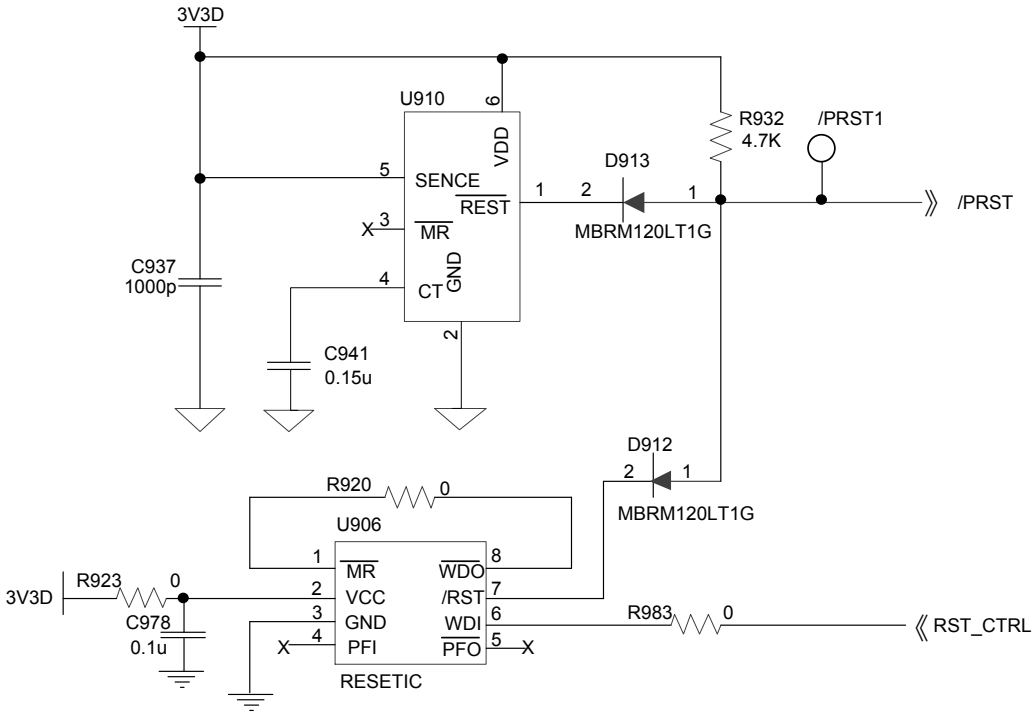
  Audio signals input from the MMC interface and the accessory connector are fed to the Codec (U231) and then are converted by the ADC into 16-bit PCM digital audio signals, which will be fed to U302 via the SSI.

  When the mobile radio is set to Public Address mode, the audio signal will be generated by the internal MIC, and then is buffered by U231, and finally is output via SPK2. The output audio signal is amplified, and then is output as the two paths of audio PUB_Address1 and PUB_Address2.

5.2.4 PCB Difference

The PCB has four versions: D, F, H, and L.

- Version D: It is the basic version.
- Version F: The watchdog circuit (in the figure below) is added.



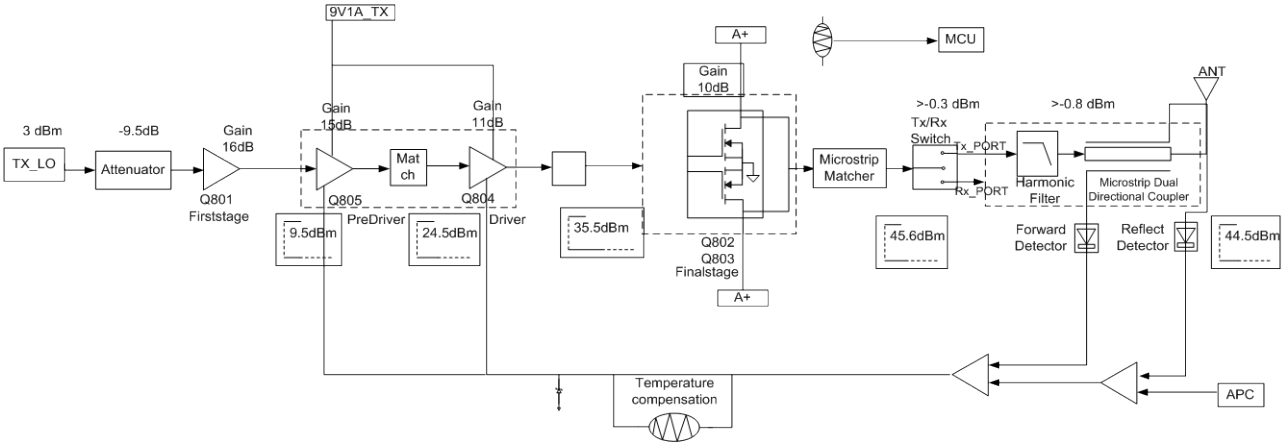
The watchdog circuit is used to prevent the mobile radio from damage due to OMAP malfunction. If the program works properly, U302 feeds pulse signal (25 ms) to the watchdog circuit through RST_CTRL. Otherwise, this pulse signal will be terminated and delayed for more than 1.6s so that U906 generates the reset signal to reset OMAP.

- Version H: The audio amplifier is different compared with Version D and Version F.
- Version L: The DC/DC conversion circuit is optimized, GPS pulse and GPS backup circuit are added, and some circuits are deleted.

5.3 RF Section

5.3.1 Transmitter Circuit

The transmitter circuit is composed of power amplifier circuit and power control circuit. The former is used to amplify the voltage control oscillator (VCO) signal to the appropriate output power level, while the latter can keep the output power at the appropriate level, so as to protect the power amplifier from damage caused by overheating, antenna mismatch, and out-of-range voltage (over voltage or under voltage may result in damage to Q801, Q805, Q804, Q802 and Q803).



Power Amplifier Circuit

The power amplifier circuit consists of four-stage power amplifier circuits and amplifies the signal output from VCO to the required output power level.

Note

Only one final-stage PA (Q803) is available, if the power of the mobile radio is 25 W and the version of main board is Version H or later version.

- TX Buffer Amplifier

  TX buffer amplifier provides 16 dB power gain by Q801. Adjust the bias circuit of TX buffer amplifier circuit to get a quiescent bias current of 28 mA for Q801. Power supply for the switching transistor Q810 is controlled by TX signal, so as to further control the power supply for the whole circuit.

- Pre-driver Power Amplifier

  The pre-driver power amplifier is formed by Q805, with variable gain controlled by voltage VGG. The input matching circuit is composed of C826, L826, L814, C843 and R824.

- Driver Power Amplifier

  The driver power amplifier is formed by Q804, with variable gain controlled by voltage VGG. Its maximum output power is 35.5 dBm and maximum gain is 11 dB.

- Final-stage Power Amplifier

  The final-stage power amplifier outputs via two LDMOS PA transistors (Q802 and Q803) which are in parallel connection. Its maximum output power is 45.6 dBm and the maximum variable gain is 10 dB. The input matching circuit is composed of C815, C839, R804, R806, R807, R813, R818, and R861, while the power combining circuit is composed of C820, C830, C831, C819, C812, C841, and C842.

Antenna Switch

The antenna switch is used to switch between the transmitter circuit and the receiver circuit.

- In TX mode

  TX signal controls the switching transistor Q810, to further control the power supply (9 V 3 A) for the PIN diodes D801 and D802. Quiescent bias current of the PIN diode is controlled by the resistors R821 and R825. In this mode, D801 and D802 are turned on; RF signals are transmitted via the antenna port through the low-pass filter (composed of C821, C816, C836, C837, C838, L809, L813, and L810).

- In RX mode

  TX signal controls the switching transistor Q810, to further control the power supply for the PIN diodes D801 and D802, which are not applied with DC bias current. When the two PIN diodes are turned off, signals feed into the RX path through the low pass filter (composed of L871, C852, and C862).

Low-pass Filter

The low-pass filter consisting of inductors (L809, L813, and L810) and capacitors (C821, C816, C836, C837, C830, and C838), is used to attenuate harmonic energy from the transmitter.

Directional Coupler

The directional coupler is composed of components such as microstrip directional coupler, D803 and D804. It is used to detect both forward and reverse power of the transmitter. The forward power is coupled to the diode D803, and the voltage is applied to the power control circuit (U801). Then U801 outputs the voltage VGG for controlling the gate voltage of Q805 and Q804, ensuring a constant power output. The reverse power is coupled to D804. The voltage is applied to U802 and then fed into U302 for detection.

Power Control

The TX power is controlled by power control chips U801. The forward power is applied to the directional coupler, to output a voltage that can represent the forward power. The voltage together with the preset voltage feeds to U801 to output a voltage VGG, which can control both gate voltage and gain of Q804 and Q805, ensuring a constant power output.

Thermal and Over-voltage Protection

The circuit comprises thermistor RT804 and resistor R884. The output voltage is proportional to the detected temperature. Both the voltage used for temperature detection and the threshold voltage are fed to the operational amplifier U804, to output a voltage signal that is proportional to the detected temperature. The voltage is applied to software judgment via the diode, and then the preset voltage will be subsequently changed to lower TX power, and to protect the PA from over-heating.

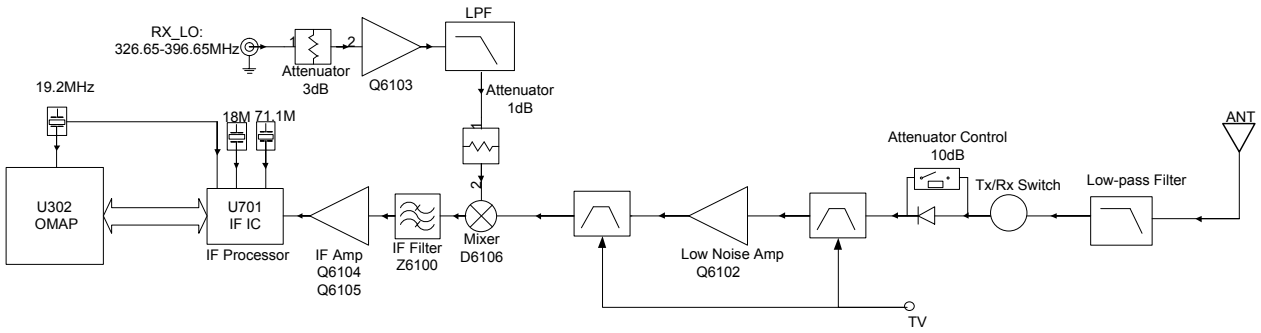
Pressure Pad Switch

The power control circuit includes a pressure pad switch SW1, which is controlled by the conductive

rubber part mounted on the upper cover. When the switch is turned off, the power control voltage VGG will become low, and no power will be output from PA. Otherwise, PA will work normally.

5.3.2 Receiver Circuit

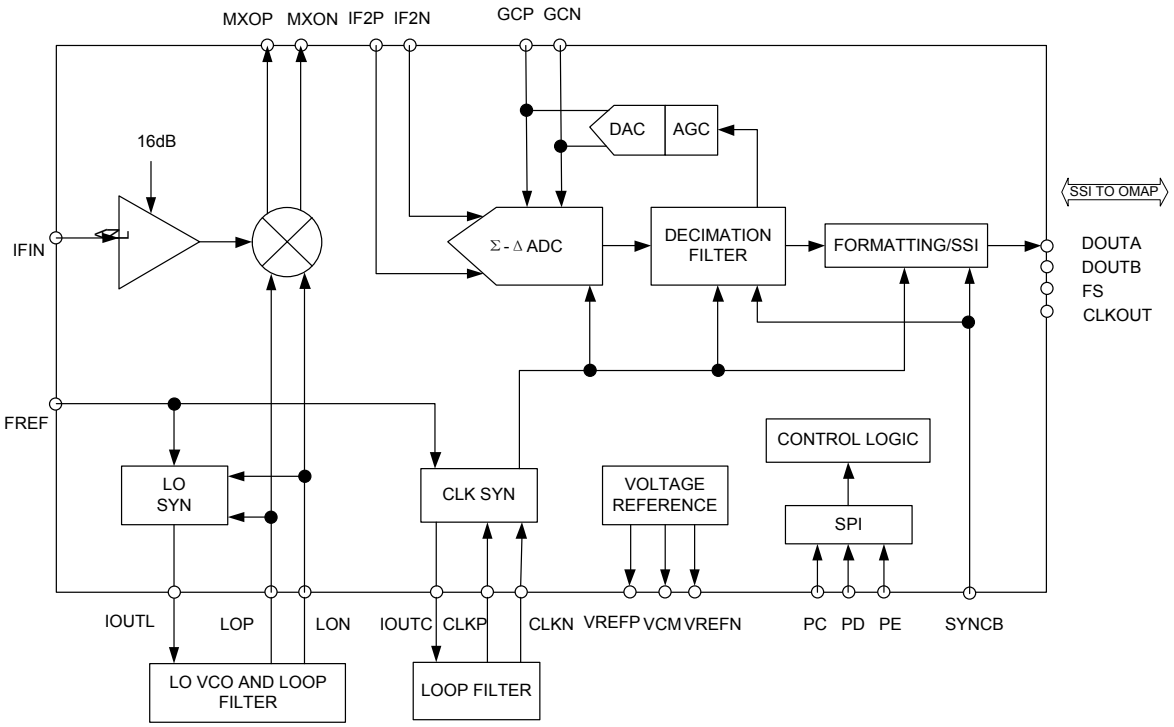
The receiver circuit employs double conversion superheterodyne technique. The first IF is 73.35 MHz and the second IF is 2.25 MHz. The first local oscillator (LO) signal is supplied by the PLL circuit (U100), and the second LO signal (71.1 MHz) is supplied by IF processor circuit (U701). The major units are BPF and LNA, mixer, IF filter, IF amplifier, and IF processor.



Receiver Front-end

RF signals feed to the low-pass filter to remove out-of-band signals, and are applied to the two-stage electrically tunable band-pass filter to get useful signals. After passing through the RF band-pass filter and LNA (Q6102), the RF signals together with the first LO signal feed to the mixer (D6106) for the first frequency conversion, to generate the first IF signal (73.35 MHz). The LO signal (3 – 5 dBm) from the VCO feeds to Q6103 to get a gain (17 dB). Afterwards, the first LO signals (73.35 MHz) pass through the crystal filter (Z6100) to remove out-of-band spurious signals, and then feed to the two-stage IF amplifier circuit (composed of Q6105 and Q6104) for amplification. Finally the amplified signals go to the IF IC (U701) for processing.

Receiver Back-end



The first IF signal (73.35 MHz) output by the IF amplifier goes into IF IC via Pin 47, where the signal is converted to the second IF signal (2.25 MHz). Then the un-demodulated digital I/Q signal output from the SSI is sent to U302 for demodulation. IF IC employs a reference frequency of 19.2 MHz and shares the crystal with U302. The second LO VCO consists of the external transistor, varactor and relevant components, to provide the second LO signal. The clock frequency is 18 MHz, which is generated by the external LC (D702, L715 and C745) resonance loop.

DSP (U302) acquires the audio signal from IF IC. Then this signal goes through U302 to output data signal, which is sent to U231 and PIN44 (SSI_DI) for digital-to-analog conversion. Finally, the output analog audio signal will be subjected to gain control, and then fed to the speaker.

5.3.3 FGU Circuit

PLL Synthesizer

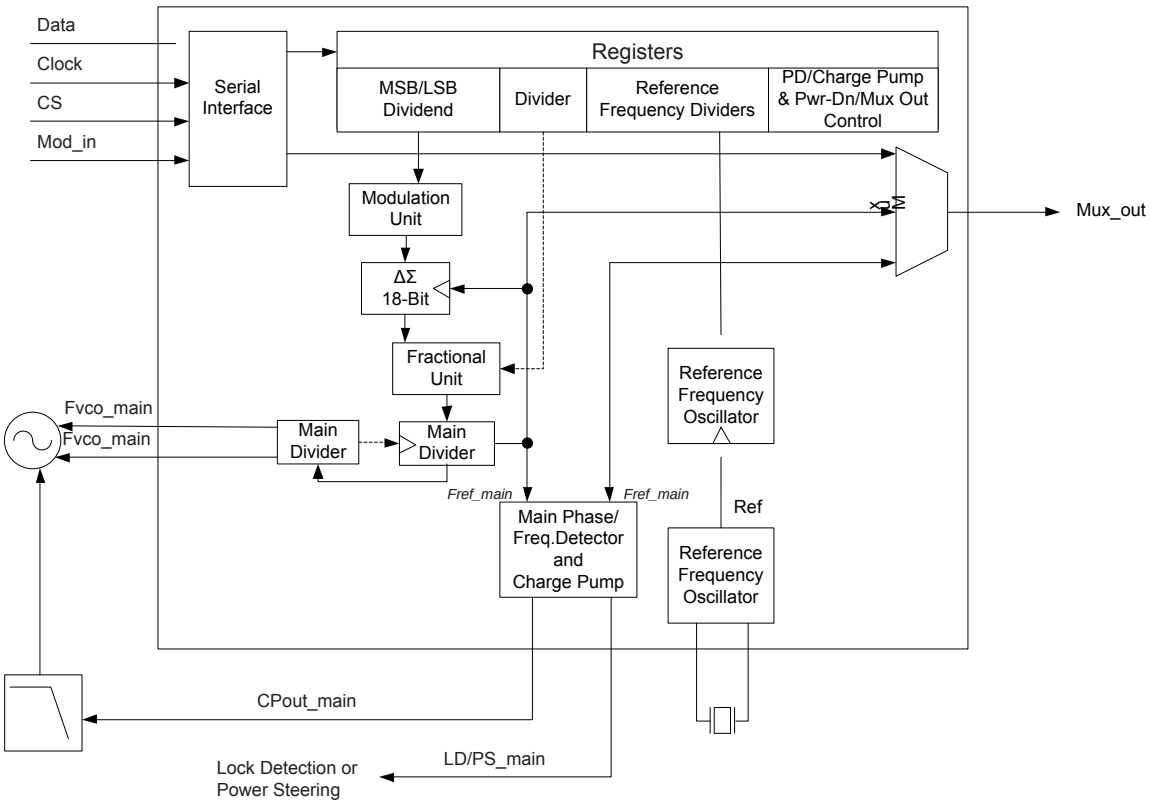
The PLL synthesizer that consists of the crystal oscillator (X100), PLL IC (U100) and VCO, is used to supply excitation signal source to the transmitter, and LO signal to the receiver.

Crystal Oscillator

Crystal oscillator (X100) employs a 19.2 MHz Temperature Compensated Crystal Oscillator (TCXO), and its reference frequency is calibrated by the digital-to-analog converter IC (U500) for accuracy.

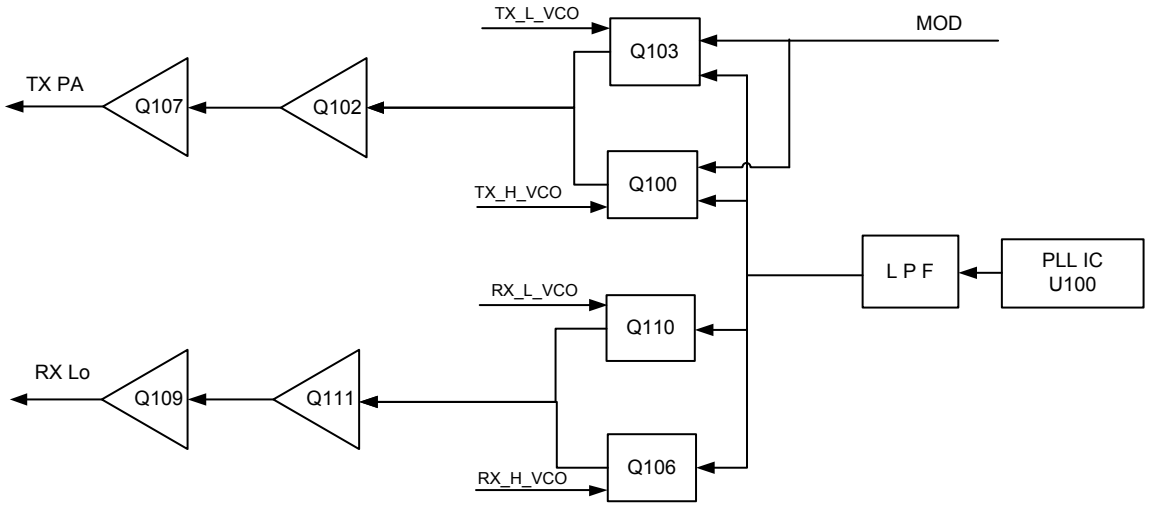
PLL IC

The PLL IC (U100) is a fractional frequency divider IC. The logic switch ICs (U101 and U102) work with the PLL IC (U100) to achieve locking.



The 19.2 MHz frequency generated by the crystal oscillator (X100) goes into the PLL IC (U100) for frequency division, generating the reference frequency. Meanwhile, the frequency generated by VCO goes into PLL IC (U100) for frequency division. The resulting frequency will be compared with reference frequency in terms of phase difference in the phase detector. After comparison, the resulting frequency is converted to CV voltage via the loop filter, to control and lock the frequency.

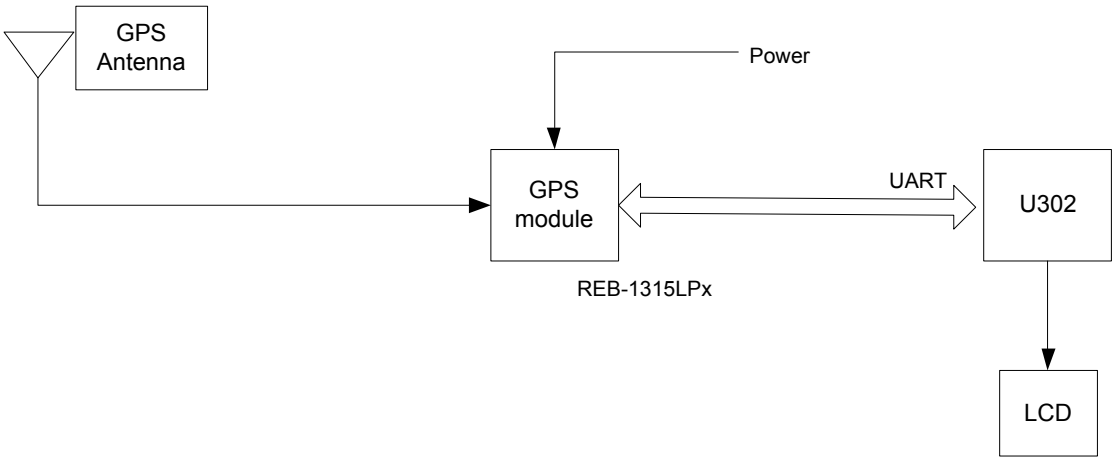
Voltage-Controlled Oscillator (VCO)



The VCO is composed of transistors (Q100, Q103, Q106 and Q110), varactors and four Colpitts oscillators. There are four VCOs in all: two VCOs (Q100 and Q103) used to transmit excitation signals

and the other two VCOs (Q106 and Q110) to receive LO signals. U302 controls the operating frequency of the VCO. Q102 and Q107 constitute the buffer amplifiers for the transmitter circuit, while Q111 and Q109 for the receiver circuit. The digital-to-analog converter (U500) modulates the TX oscillator signal.

5.4 GPS Circuit Section

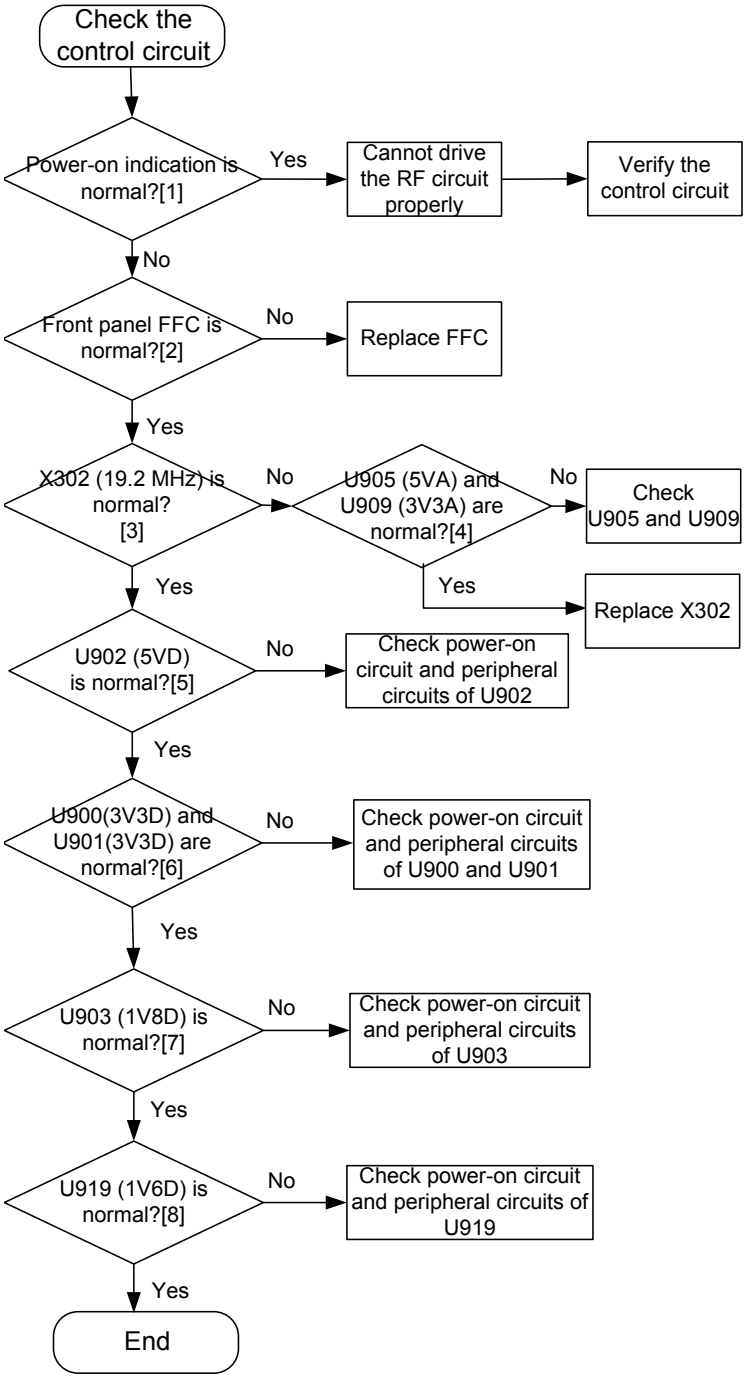


GPS data can be acquired via the programmable GPS key on the front panel of the mobile radio. The GPS function is realized via REB-1315LPx module, which integrates GPS baseband processor circuits.

The GPS signal (1.57542 GHz), received via the GPS active antenna (with a built-in LNA), goes to the GPS module for processing, and then enters U302 via the UART port. Meanwhile, U302 sends control command to the GPS module and forwards processed GPS data to the LCD display.

6. Troubleshooting Flow Chart

6.1 Control Circuit



Description of normal situations:

[1] The screen is not blurred upon power-on.

[2] The FFC connects correctly.

[3] The frequency of signal from X302 is 19.2 MHz.

[4] The output voltage of U905 and U909 is 5 V and 3.3 V respectively.

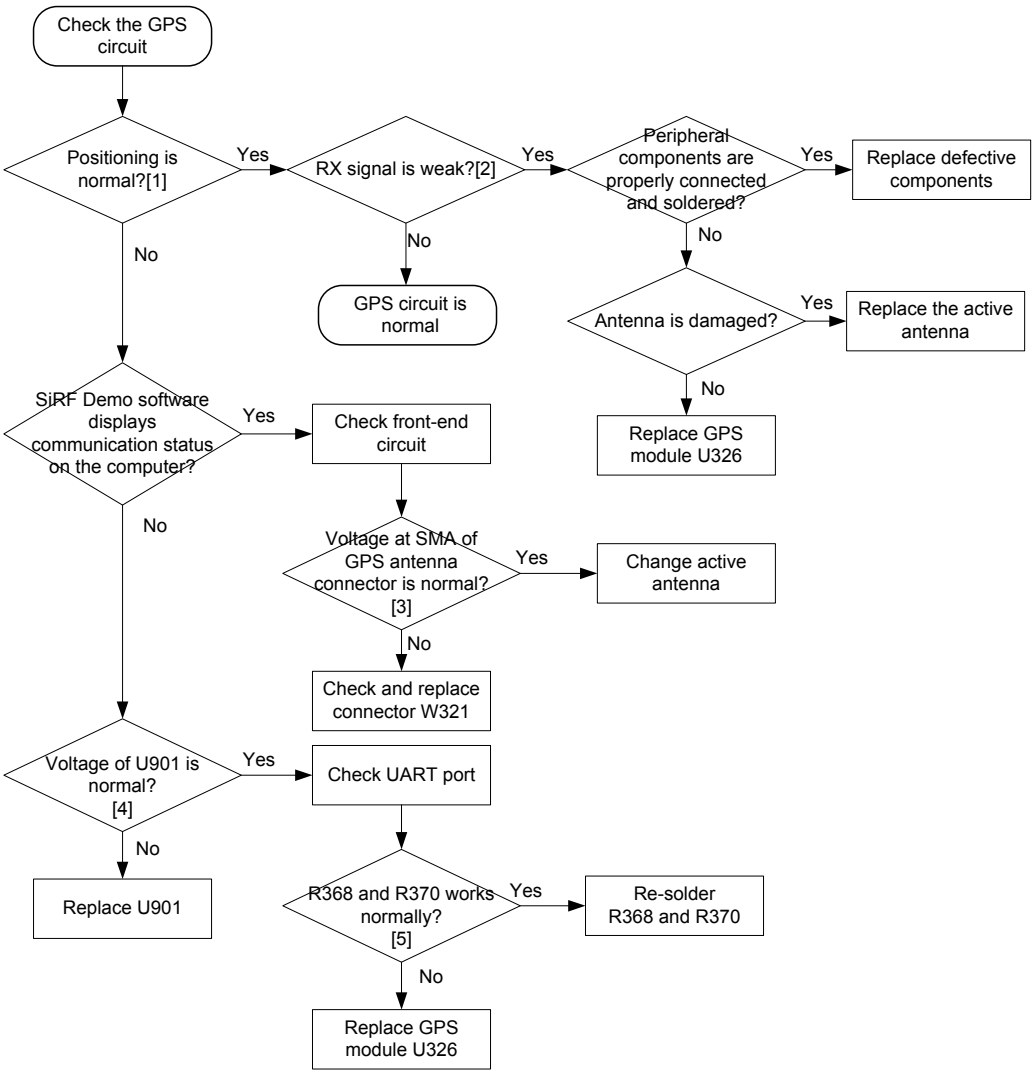
[5] The output voltage of U902 is 5 V.

[6] The output voltage of U900 and U901 is 3.3 V.

[7] The output voltage of U903 is 1.8 V.

[8] The output voltage of U919 is 1.6 V.

6.2 GPS Circuit



Description of normal situations:

[1] The satellite signal is received properly.

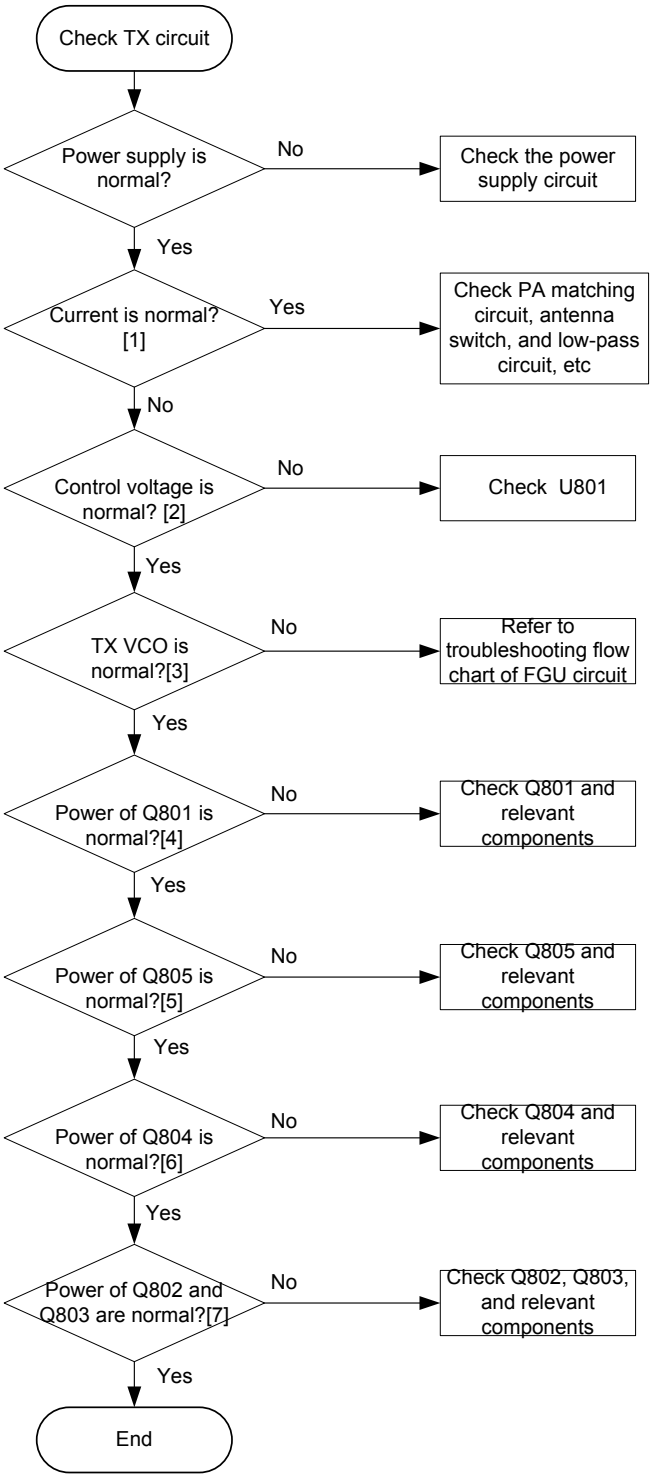
[2] The sensitivity is less than -130 dBm.

[3] Voltage at SMA of GPS antenna connector ranges from 3.2 to 3.35 V.

[4] The output voltage of U901 is 3.3 V.

[5] R368 and R370 have no soldering defects.

6.3 TX Circuit



Description of normal situations:

[1] In analog mode, the current is above 4 A under 25 W, above 7 A under 45 W, and 1 A under 5 W. However, in digital mode, the current will be reduced by 50%.

[2] The voltage at TP811 is above 2 V.

[3] The output amplitude of the TX LO signal at TP803 is about 10 dBm. Make sure that the back-end circuit is disconnected during test.

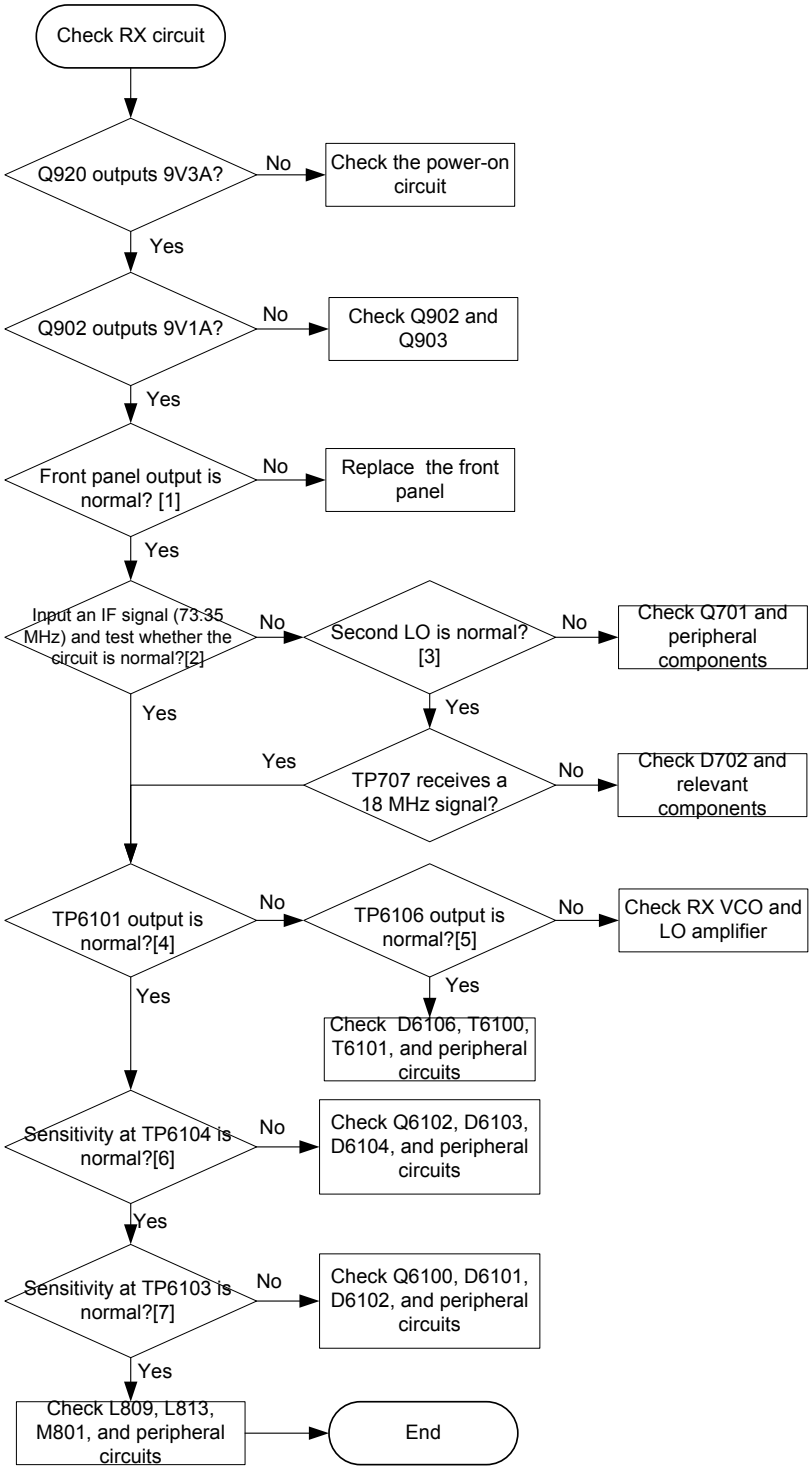
[4] The gain is 16 dB and the input signal is 0 dBm at Q801.

[5] The gain is 15 dB and the input signal is 0 dBm at Q805.

[6] The gain is 11 dB and the input signal is 0 dBm at Q804.

[7] The gain is 10 dB and the input signal is 0 dBm at Q802 and Q803.

6.4 RX Circuit



Description of normal situations:

[1] During sensitivity test, use a communication test set to demodulate the audio signal at TP4012 and TP4016. If the signal is demodulated normally, it is concluded that the front panel is defective.

[2] Use the communication test set to apply a 73.35 MHz IF signal at the mixer, and sensitivity is about -110 dBm.

[3] There is a second LO signal (71.1MHz) at TP704.

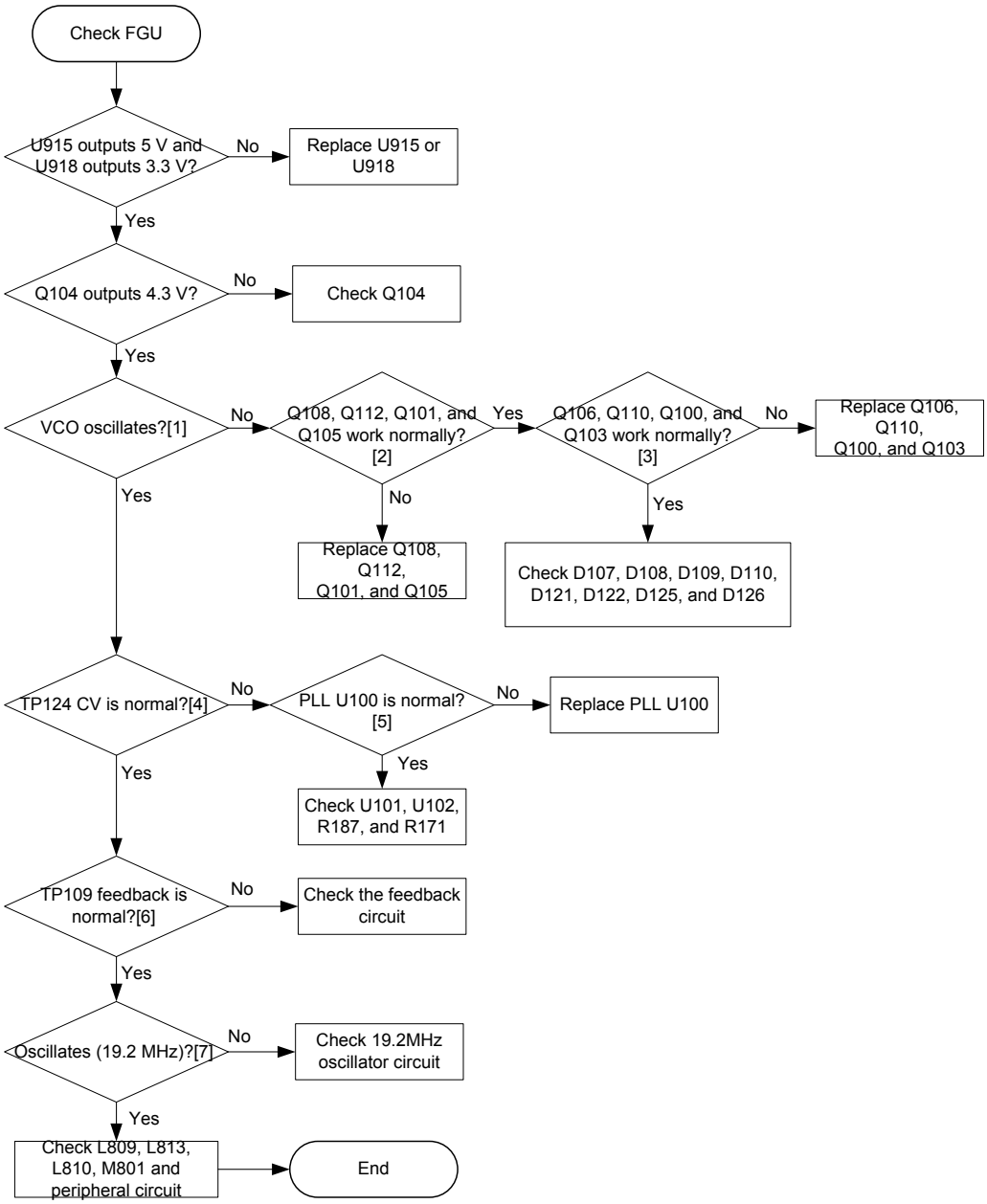
[4] The sensitivity at TP6101 is about -110 dBm.

[5] The received LO signal at TP6106 is about 18 dBm。

[6] The sensitivity at TP6104 is about -120 dBm.

[7] The sensitivity at TP6103 is -117 dBm.

6.5 Frequency Generation Unit (FGU)



Description of normal situations:

[1] The oscillation frequency of RX TP123 and TX TP111 can be detected.

[2] Q101, Q105, Q108, and Q112 are turned on and output about 3.6 V.

[3] The emitter voltage of Q106, Q110, Q100 and Q103 is about 1.8 V.

[4] The CV of TP124 ranges from 0.5 V to 4.5 V.

[5] PLL U100 is supplied by 5 V and 3.3 V normally.

[6] The power of the signal from TP109 to PLL is about -15 dBm.

[7] TP110 outputs 19.2 MHz signal.

7. Interface Definition

7.1 10-Pin Connector

The 10-pin connector on the front panel is used for audio accessories or data cable connection. The definition of each pin is described as below.

Pin No.	Name	Type	Signal Electrical Performance	Description
1	Accessory identification interface 1	Digital input	3.3 V CMOS	Pin 1 and Pin 10 (accessory identifier interface 2) compose an accessory identification matrix. Please refer to the "10-pin Accessory Identification Matrix Table" below for detailed function definitions.
2	PTT input	Digital input	3.3 V CMOS	PTT input for the palm microphone, which is valid at low level.
3	External audio output	Analog output	Load impedance >1 kΩ Vrms=600mV±10%@1 kHz 60% system max. deviation	Accessory audio output. When "Mic Audio Output" is selected via CPS, this pin will output the received audio signal.
4	USB_D-	USB data cable-	USB data	When this pin is used for USB function, USB function of DB26 will be disabled.
5	GND	Ground cable	/	/
6	USB_VBUS	USB power supply	Power supply: 5 V; current limiting: 500 mA	This pin provides power supply to the USB accessory. It outputs a 5 V voltage when accessory identification code is 00|01|10, and outputs low level when the

Pin No.	Name	Type	Signal Electrical Performance	Description
				code is 11.
7	Mic input	Analog input	Modulation sensitivity Vrms=80mV±10%@1kHz 60%system max. deviation	Mic input for palm microphone
8	USB_D+	USB data cable+	USB data	When this pin is used for USB function, USB function of DB26 will be disabled.
9	HOOK	Digital input	3.3V CMOS	High level by default; valid at low level. HOOK and MONITOR functions: Press this key, the level changes from high to low. When palm microphone is detected or press the key of the palm microphone, this pin is used for HOOK function; when desktop microphone is detected, this pin is used for MONITOR function.
10	Accessory identification interface 2	Digital input	3.3V CMOS	Pin 1 and Pin 10 (accessory identifier interface 1) compose an accessory identification matrix. Please refer to the "10-pin Accessory Identification Matrix Table" below for detailed function definitions.

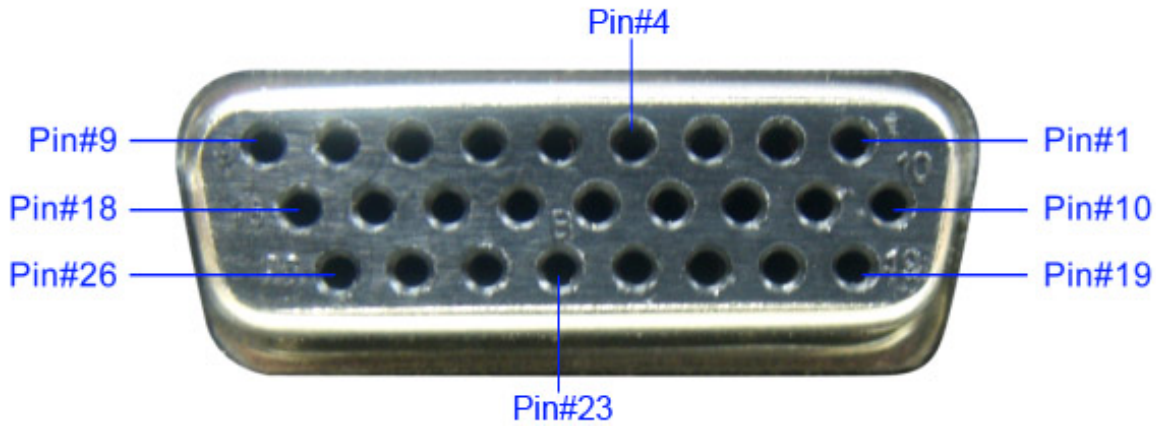
10-pin Accessory Identification Matrix Table (composed of Pin 1 and Pin 10):

Pin 1	Pin 10	Radio Status
Low level	Low level	Reserved
Low level	High level	The mobile radio is in USB master mode or connected to a USB smart accessory (such as palm microphone with keypad).

Pin 1	Pin 10	Radio Status
High level	Low level	The mobile radio is connected to an external speaker (including desktop microphone with earpiece).
High level	High level	The mobile radio is in USB slave mode, or it is not connected to any accessory, or it is connected to a palm microphone without keypad.

7.2 DB26 Accessory Interface

DB26 accessory interface, namely the 26-pin further development interface on the rear panel, is mainly used for accessory connection of mobile radio, or compatibility with other interfaces. Users can further develop the radio via this interface. The figure and definition of each pin is as follows.



Pin No.	Name	Type	Signal Electrical Performance	Description
1	Vbus USB power supply	Power output	Power supply: +5V; current limiting: 500 mA	Pin 1 and Pin 10 (accessory identification interface 2) compose an accessory identification matrix. This pin outputs a 5 V voltage when accessory identification code is 00|01|10, and outputs low level when the code is 11.
2	Ground	Power supply (grounding)	/	/
3	GP5_3 (Chan_Act)	GPIO	5V TTL	GPIO. Programmable via CPS.

Pin No.	Name	Type	Signal Electrical Performance	Description
4	SWB+	Power output	Power supply :13.2V±15%; output current ≤1 A	Power output: 13.2 V; output current: ≤1 A
5	External Alarm	Analog voltage output	13 V alarm output	Programmable output pin (“External Horn & Lights” feature by default, programmable via CPS).
6	Power Ground	Power supply (grounding)	/	/
7	TX Audio	Analog signal input	Vrms=80 mV±10%@1 kHz 60% system max. deviation	This pin is used for signal input of external MIC. The audio path is valid when the external Mic PTT is held down.
8	RX Audio	Analog signal output	Load impedance>1kΩ Vrms=300 mV±10%@1 kHz 60% system max. deviation	Default output is 300 mV. The output signal amplitude can be changed by modifying the “Analog RX Gain” value via CPS.
9	SPK-	Analog output	It forms differential output together with SPK+. Max power output: 10 W(R=8 Ω)	External speaker output-
10	D+	USB data cable+	USB data	USB data cable+
11	USB_GROUND	Ground cable	/	/
12	GP5_2 (Monitor)	GPIO	5V TTL	GPIO. Programmable via CPS; Monitor feature by default.
13	ACC_IO2	Digital input	5V TTL	Accessory identification interface; high level by default. This pin and Pin 15 (ACC_IO3) can compose

Pin No.	Name	Type	Signal Electrical Performance	Description
				three accessory identification statuses. Please refer to the "DB26 Accessory Identification Matrix Table" below for detailed function definitions.
14	Emerg Sw	Digital input	5V TTL	Emergency switch. This pin is valid when low level is input.
15	ACC_IO3	Digital input	5V TTL	Accessory identification interface; high level by default. This pin and Pin 13 (ACC_IO2) can compose three accessory identification statuses. Please refer to the "DB26 Accessory Identification Matrix Table"" below for detailed function definitions.
16	PRGM_IN_PTT	Digital input	5V TTL	Programmable input pin (**PTT** key of external Mic by default; its function is programmable via CPS). It is valid at low level.
17	Audio Ground	Audio (grounding)	/	/
18	SPK+	Analog signal output	It forms differential output together with SPK-. Max power output: 10 W(R=8 Ω)	External speaker output+
19	D-	USB data cable-	USB data	USB data cable-
20	GP5_8	Digital input/output	5V TTL	GPIO. Programmable via CPS.
21	Ground	Ground	/	/

Pin No.	Name	Type	Signal Electrical Performance	Description
		cable		
22	GP5_7	Digital input/output	5V TTL	GPIO. Programmable via CPS.
23	GP5_6	Digital input/output	5V TTL	GPIO. Programmable via CPS.
24	AUX Audio Out 1	Analog output	Load impedance >1 kΩ Vrms=300 mV±10%	Auxiliary audio (external speaker) output 1
25	AUX Audio Out 2	Analog output	Load impedance >1 kΩ Vrms=300 mV±10%	Auxiliary audio (external speaker) output 2
26	Ign Sense Detect Pin	Analog voltage input	Ignition voltage input >7 V	Input pin for ignition voltage

Note

When a pin is marked with 5 V TTL level, this pin has the pull-up function. If the pin needs to be set to high level, empty this pin.

DB26 Accessory Identification Matrix Table (composed of Pin 13 and Pin 15):

Pin 13	Pin 15	Radio Status
High level	High level	Default status. The mobile radio is in USB slave mode or not connected to any accessory.
High level	Low level	The mobile radio is in USB master mode or connected to a USB smart accessory (such as palm microphone with keypad).
Low level	High level	The mobile radio is connected to an external speaker (including desktop microphone with earpiece).
Low level	Low level	Reserved

7.3 Other Interfaces

J2 (LCD Display Interface)

Pin No.	Name	Description

Pin No.	Name	Description
1	GND	Grounding pin
2	VCI	2.5 – 3.3 V adjustable port
3	VCI	2.5 – 3.3 V adjustable port
4	IOVCC	1.65 – 3.3 V adjustable I/O port
5	FLM	Synchronization signal control port
6	CS	Chip select signal
7	RS	Register select
8	WR	Write signal
9	RD	Read signal
10	DB0	Data bus
11	DB1	
12	DB2	
13	DB3	
14	DB4	
15	DB5	
16	DB6	
17	DB7	
18	DB8	
19	DB9	
20	DB10	
21	DB11	
22	DB12	
23	DB13	
24	DB14	
25	DB15	

Pin No.	Name	Description
26	DB16	
27	DB17	
28	RESET	Reset signal
29	IM3	Select data cable
30	IM0	
31	LEDA	LED anode
32	LED_K1	LED cathode
33	LED_K2	
34	LED_K3	

J4 (Aviation Interface of Front Panel)

Pin No.	Name	Description
1	ACC_IO1	Digital input
2	PTT_IN	Digital input
3	External_Audio	Analog output
4	USB_D-	USB data cable
5	GND	Ground cable
6	USB_VBUS	Power supply
7	MIC_IN	Analog input
8	USB_D+	USB data cable
9	HOOK	Hook signal input
10	ACC_IO2	Digital input

J400 (Option Board Interface)

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remark
1	GPIO1	GPIO	I/O	VIH MIN=0.7VDD VIL MAX=0. 3VDD	GPIO5: output signal of resetting the option
3	GPIO2				

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remark
5	GPIO3			VOH MIN=0.8VDD VOL MAX=0.22VDD	board. GPIO4/GPIO5: Unidirectional output interfaces. They require their input resistances are greater than or equal to 47 kΩ.
7	GPIO4		O		
9	GPIO5	RESET-OUT	O		
11	UART-TX	UART	O		UART
13	UART-RX		I		
15	UART-CTS		I		
17	UART-RTS		O		
2	I2C –SDA	I2C	I/O		I2C
4	I2C -SCL		O		
6	MCBSP-DR	MCBSP	I		McBSP: Multi-channel buffered serial port
8	MCBSP-WCLK		I/O		
10	MCBSP-DX		O		
12	MCBSP-FSX		I/O		
14	AGND	AGND	/	/	/
16	AF OB TO MB	AF	I	80 mV (standard output from the option board to the main board)	MAX: 700 mV

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remark
18	AF MB TO OB	AF	O	80 mV (standard output from the main board to the option board)	MAX: 700mV
19	DGND	DGND	/	/	/
20	3V6 or 5V	Power	O	Voltage: 5.0 V	/

J403 (Pin Interface)

Pin No.	Name	Description
1	Vbus USB	Power supply: +5 V
2	Ground	Ground cable
3	GP5_3	Digital input/output
4	SW B+ sense	Power supply
5	External Alarm	Analog voltage output
6	Power Ground	Power supply (grounding)
7	Tx Audio	Analog input
8	RX Audio	Analog output
9	Spkr-	Analog output
10	D+ USB	USB data cable+
11	USB_GROUDN	Ground cable
12	GP5_2	Digital input/output
13	ACC_IO2	Digital input
14	Emerg Sw	Digital input
15	ACC_IO3	Digital input
16	PRGM_IN_PTT	Digital input
17	Audio Ground	Audio ground

Pin No.	Name	Description
18	Spkr+	Analog output
19	D- USB	USB data cable-
20	GP5_8	Input/output
21	Ground	Ground cable
22	GP5_7	Input/output
23	GP5_6	Digital input/output
24	AUX Audio Out 1	Analog output
25	AUX Audio Out 2	Analog output
26	Ign Sense	Analog voltage input

J404 (Front Panel Interface)

Pin No.	Name	Description
1	INT_MIC	Audio input
2	MIC_GROUND	Audio input (grounding)
3	ACC_IO1	Accessory identification interface 1
4	USB_VBUS	USB power supply
5	HOOK	HOOK
6	PTT	PTT
7	USB_D-	USB data cable D-
8	USB_D+	USB data cable D+
9	ACC_IO2	Accessory identification interface 2
10	UART2_RXD_A	Volume control port
11	UART2_TXD_B	/
12	EXTERNAL_AUDIO	Audio signal output by accessory (mobile radio)
13	SPKR1+	Speaker audio signal cable+

Pin No.	Name	Description
14	SPKR1-	Speaker audio signal cable-
15	5VD	Power supply
16	PRST	Reset signal
17	KB_C0	Matrix keyboard
18	KB_C1	
19	KB_C2	
20	KB_C3	
21	B_R0	
22	B_R1	
23	B_R2	
24	CSLED	Backlight control IC chip select
25	CLOC	Backlight control IC clock
26	DATA	Backlight control IC data
27	OE_LCD	LCD read enable
28	WE_LCD	LCD write enable
29	CS2_LCD	LCD chip select
30	F_A1_LCD	LCD register select enable
31	F_D7	LCD data bus
32	F_D6	
33	F_D5	
34	F_D4	
35	F_D3	
36	F_D2	
37	F_D1	LCD data bus
38	F_D0	

Pin No.	Name	Description
39	GND	Grounding
40	PWB_IN	Power On/Off signal

8. Tuning Description

8.1 Required Test Instruments

- Radio communication test sets: HP8921 and Aeroflex 3920
- Power supply: 15 A/30 V
- Multimeter
- Tuner software

8.2 Tuning Procedures

8.2.1 Tuning the Radio

After re-assembling the radio, you need to tune it with the Tuner software and HP8921.

The specific operations are described in the table below. After tuning the items of the current channel, you must switch the radio to the next channel; otherwise, the adjustments will not be saved to the radio properly.

Items	Method
TX Section	
Reference Oscillator Warp	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Reference Oscillator Warp” in the left navigation tree. Then click the “Transmit On” button. 3. Adjust the vernier on the Tuner until the frequency offset between the frequency displayed on HP8921 and the frequency (Tx) displayed on Tuner is less than or equals to ±40 Hz. 4. Click the “Save” button on Tuner to save the existing value to the radio. 5. Click the “Transmit Off” button on Tuner.
Transmit Power Calibration	Here takes the tuning of low TX power for example. 1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit Power Calibration” in the left navigation tree. Then select an appropriate channel.

Items	Method
	3. Click the “Transmit On” button on Tuner. 4. Adjust the power to the required level as follows: Low power: 1 W (for version D/F); 5 W (for version H or later) Medium power: 25 W High power: 45 W 5. Click the “Save” button on Tuner to save the existing value to the radio.
Transmit-to-Deviation	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Set the parameters on the HP8921 as follows: IF Filter: 230 kHz Filter1: <20 Hz HPF Filter2: <15 kHz LPF De-Emphasis: off 3. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit-to-Deviation” in the left navigation tree. Then click the “Transmit On” button. Then set the modulation signal of HP8921 to “100 Hz”. 4. Adjust the vernier on Tuner until the frequency deviation displayed on HP8921 is “5 kHz”. 5. Click the “Save” button on Tuner to save the existing value to the radio. 6. Click the “Transmit Off” button on Tuner.
Modulation Balance	Here takes the low frequency deviation for example. 1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Set the parameters on the HP8921 as follows: IF Filter: 230 kHz Filter1: <20 Hz HPF Filter2: <15 kHz LPF De-Emphasis: off 3. Open the Tuner software and go to “TUNE_DATA -> TX -> Modulation Balance” in the left navigation tree. Then select an appropriate channel.

Items	Method
	4. Click the “Transmit On” button on Tuner. Then set the modulation signal of HP8921 to “100 Hz”. 5. Adjust the value in the dialog box on Tuner until the frequency deviation displayed on HP8921 is “5 kHz”. 6. Press the **Enter** key on the keyboard to confirm your settings. 7. Click the “Save” button on Tuner to save the existing value to the radio. 8. Click the “Transmit Off” button on Tuner.
Transmit Oscillator Voltage	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit Oscillator Voltage” in the left navigation tree. 3. Click the “Save” button to save the existing value to the radio.
RX Section	
Front-end Filter	1. Connect the radio to HP8921 via the antenna connector. 2. Connect the Audio Out port of the radio to the Audio In port of HP8921, and set HP8921 to RX test mode. 3. Set the parameters on the HP8921 as follows: Output RF signal: -118 dBm/Frequency (current channel frequency) Modulation frequency: 1 kHz Modulation deviation: 3 kHz 4. Open the Tuner software and go to “TUNE_DATA -> RX -> Front-end Filter” in the left navigation tree. Adjust the vernier on Tuner until the “SINAD” value displayed on HP8921 is greater than 14 dB. 5. Set the output RF signal of HP8921 to -25 Bm/(current channel frequency -36.675 MHz). 6. Adjust the vernier on Tuner until the “SINAD” value displayed on HP8921 is less than 14 dB. 7. Press the **Enter** key on the keyboard to confirm your settings. 8. Click the “Save” button on Tuner to save the existing value to the radio.
Front-end Gain	1. Connect the radio to HP8921 via the antenna connector, and set HP8921

Items	Method
	to RX test mode. 2. Set HP8921 to output an unmodulated RF signal with a value of "-70 dBm/Frequency (current channel frequency)". 3. Press the **Enter** key on the keyboard to confirm your settings. 4. Click the "Save" button on Tuner to save the existing value to the radio.
Receive Oscillator Voltage	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to RX test mode. 2. Open the Tuner software and go to "TUNE_DATA -> RX -> Receive Oscillator Voltage" in the left navigation tree. 3. Set HP8921 to output an unmodulated RF signal with a value of "-47 dBm/Frequency (current channel frequency)". 4. Click the "Save" button to save the existing value to the radio.

8.2.2 Testing the Radio

After tuning all the items of the radio, you need to test the digital RF signal of the mobile radio via Aeroflex 3920 (Digital Radio Test set).

Transmitting

Step 1 Connect the mobile radio to Aeroflex 3920 via the antenna connector.

Step 2 Open the Tuner software and go to "TEST -> TX -> Transmit BER (0.153)".

Step 3 Select the channel to be tested and select the corresponding power level (High Power or Low Power) in "Parameter" on Tuner.

Step 4 Click the "Transmit On" button on Tuner.

Step 5 Set the parameters on the Aeroflex 3920 as follows:

- Frq: Be consistent with the TX frequency of the channel to be tested.
- STD IB 511: .153

Step 6 Observe the "avg" value of "UUT TX Bit Err" parameter in "UUT Measurements" module of Aeroflex 3920, which is the average bit error rate of the tested channel during transmitting.

The radio is operating properly when the Aeroflex 3920 parameters are as follows:

- FSK Error: ≤5%
- Symbol Clock Err: ≤100 Hz
- Signal Power: 3.9 – 4.5W

- Magnitude Error: ≤1%
- UUT TX Bit Err = 0%

Step 7 Click the “Transmit Off” button on Tuner to finish testing.

Receiving

Step 1 Connect the antenna connector of the radio to the RF port of Aeroflex 3920, and set Aeroflex 3920 as follows (remain default values for other parameters):

- Frq: Be consistent with the frequency of the channel to be tested.
- STD IB 511: .153
- Lv1 (signal strength): -116 dBm (-110 dBm by default)

Step 2 Open the Tuner software and go to “TEST -> RX -> Receiver BER (0.153)”.

Step 3 Select the channel to be tested and click the “Start” button on Tuner.

Step 4 Observe the “Average Rate” displayed on Tuner.

You can set different “Average Num” (the calculation base of BER, which is “10” by default) to obtain different “Average Rate”.

Step 5 Modify the value of “Lv1” parameter of Aeroflex 3920, so as to obtain the average BERs of the tested channel under different signal strengths.

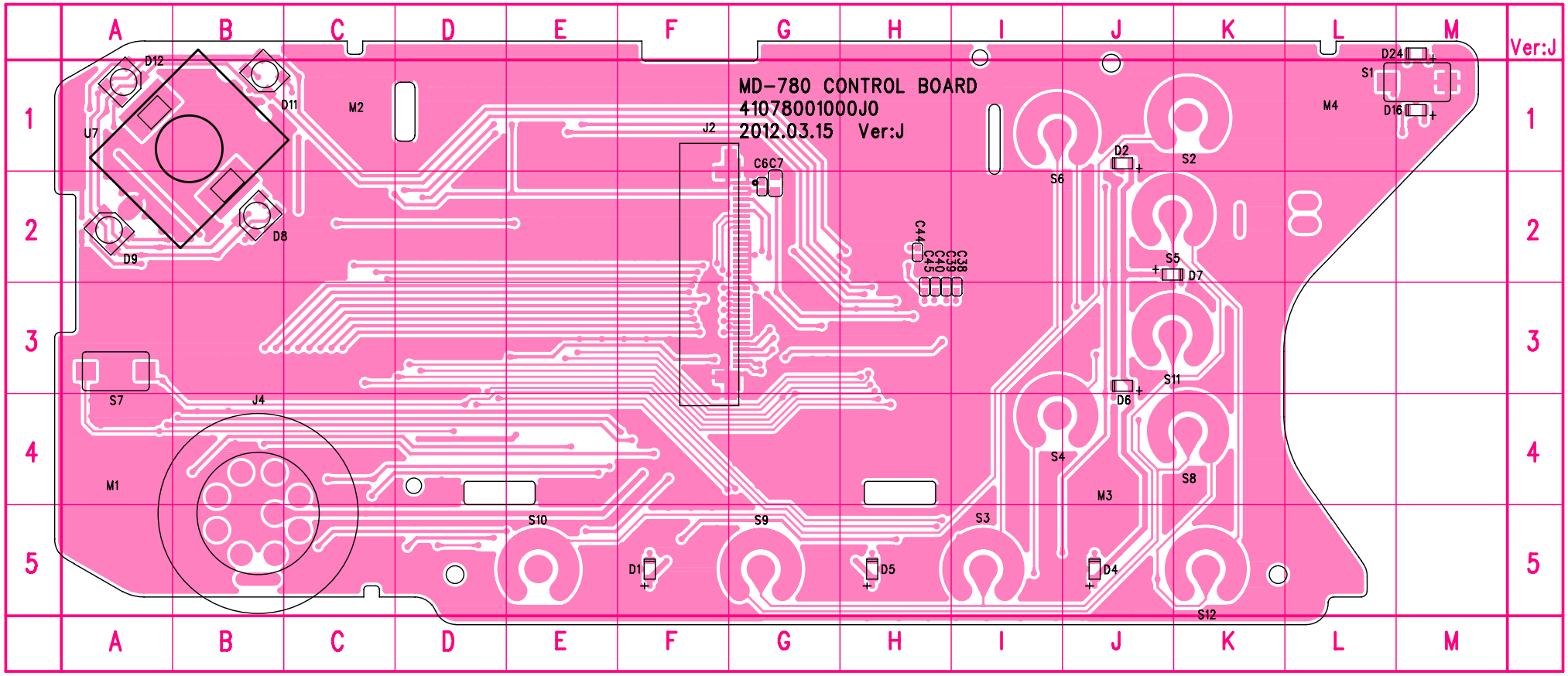
The mobile radio is operating properly when the average BER is less than 5%.

Note
When the parameter “Lv1” is set to “-110 dBm”, the mobile radio is operating properly when the average BER is less than 1%.

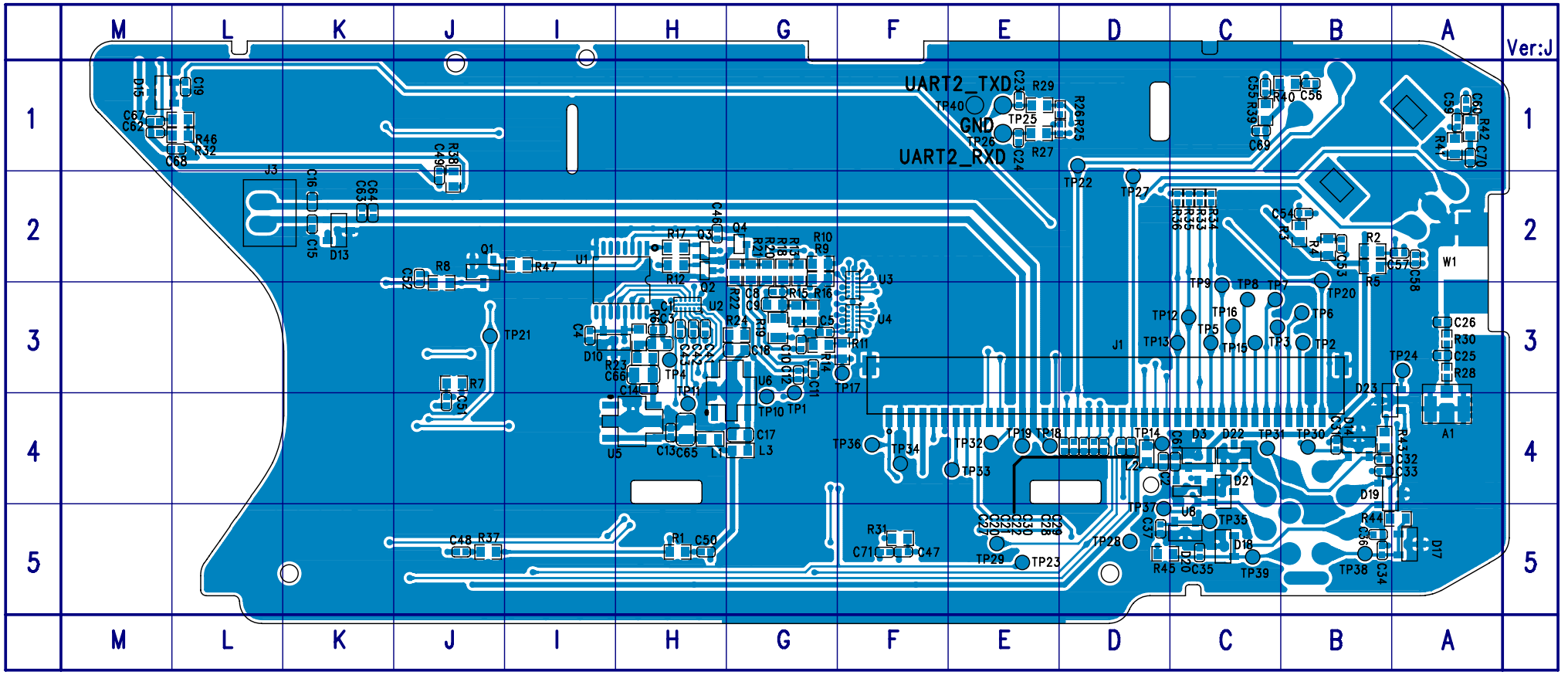
Step 6 Click the “Stop” button on Tuner to finish testing.

9. PCB View

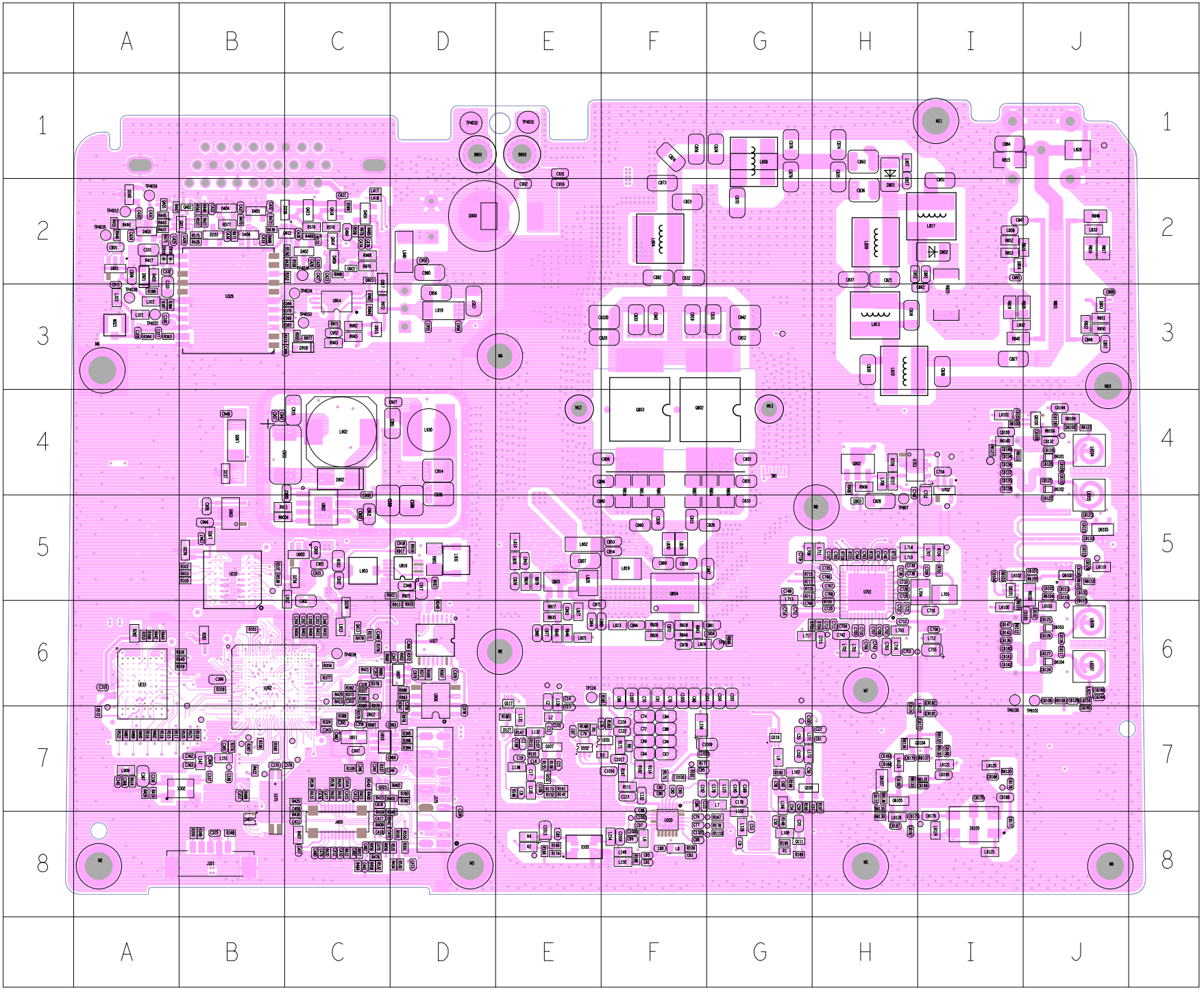
MD78X/MD78XG PCB View (Front Panel)
Top Layer



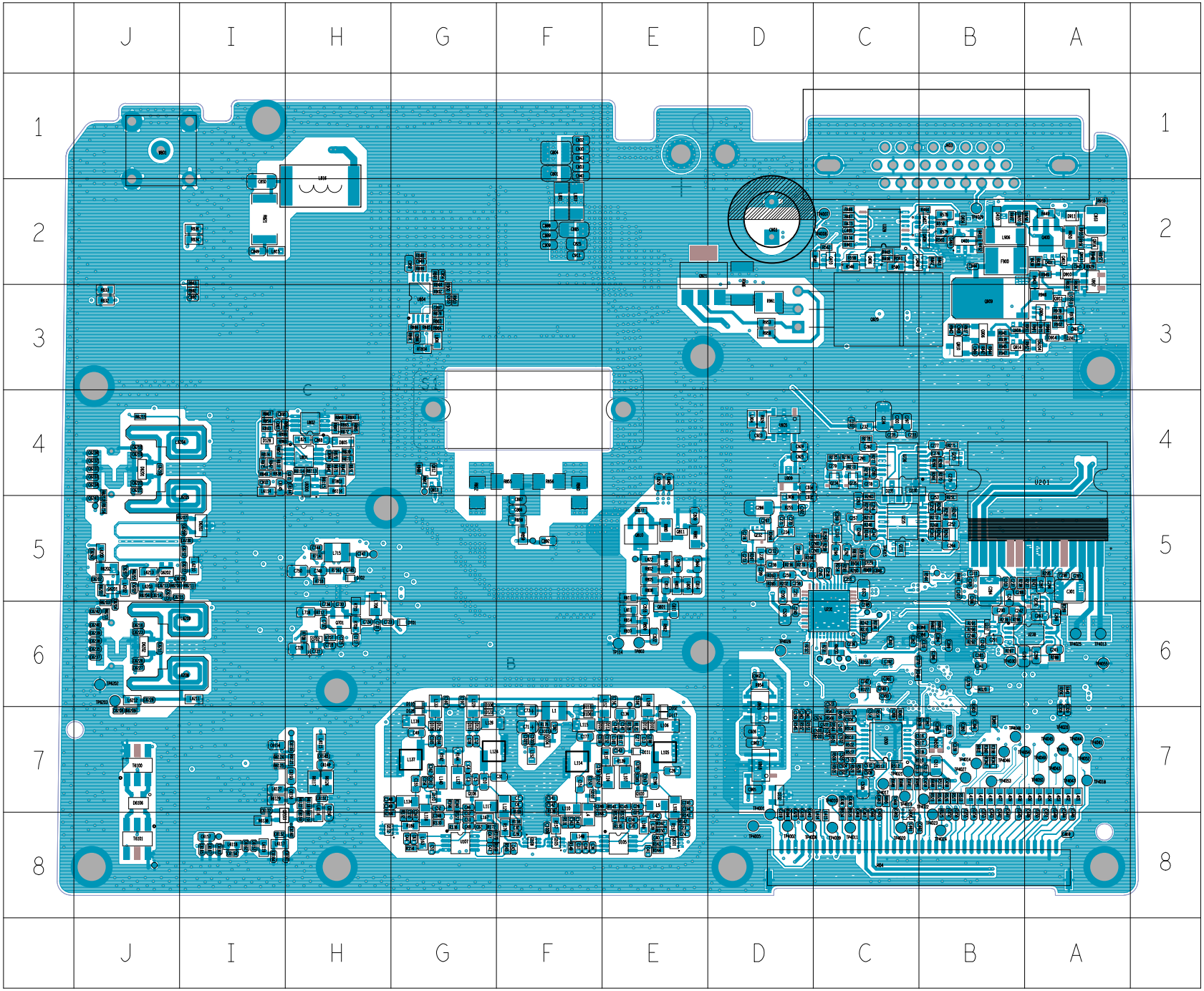
MD78X/MD78XG PCB View (Front Panel)
Bottom Layer



MD78X/MD78XG PCB View (Main Board) - Top Layer

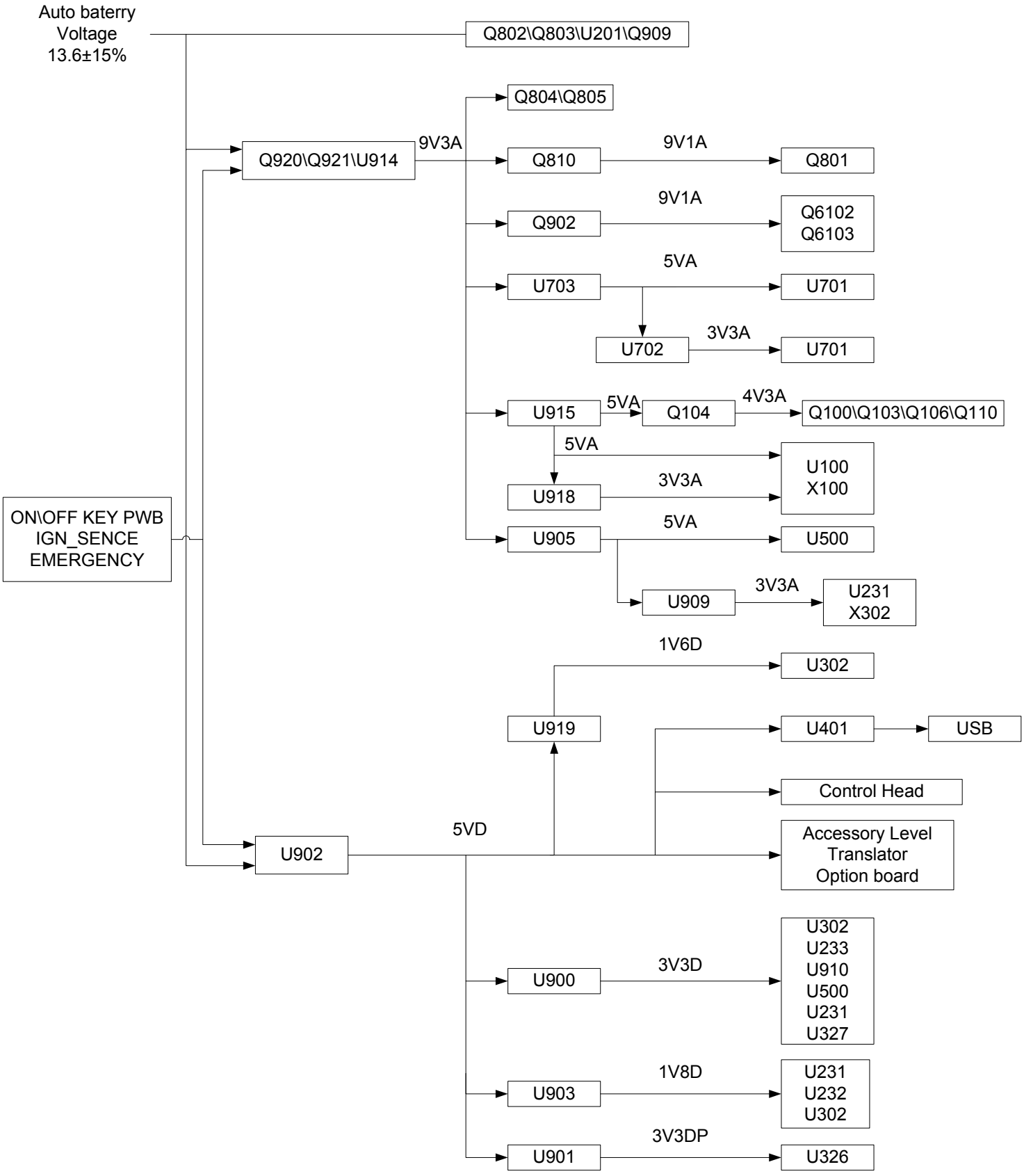


MD78X/MD78XG PCB View (Main Board)
Bottom Layer

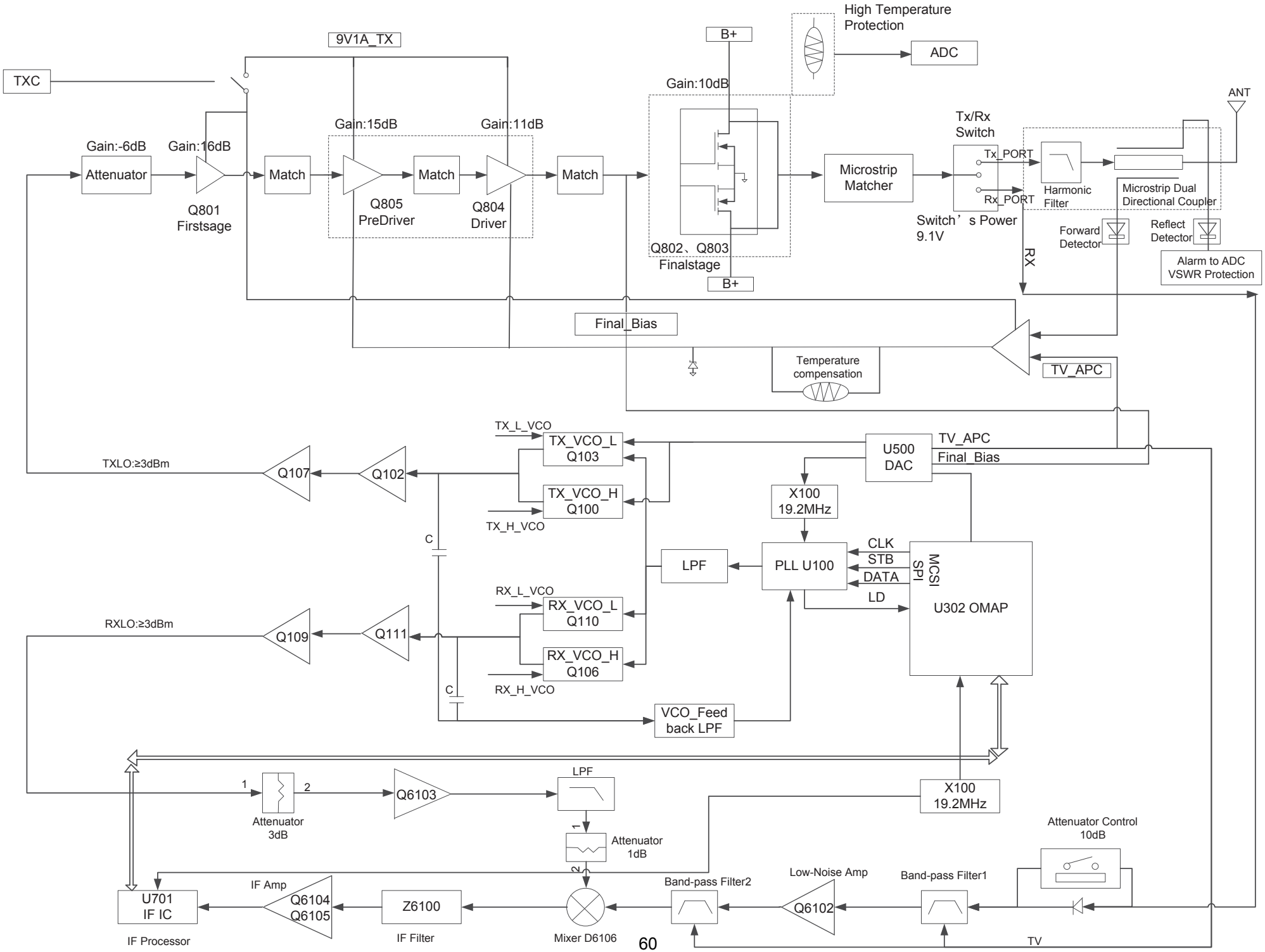


10. Block Diagram

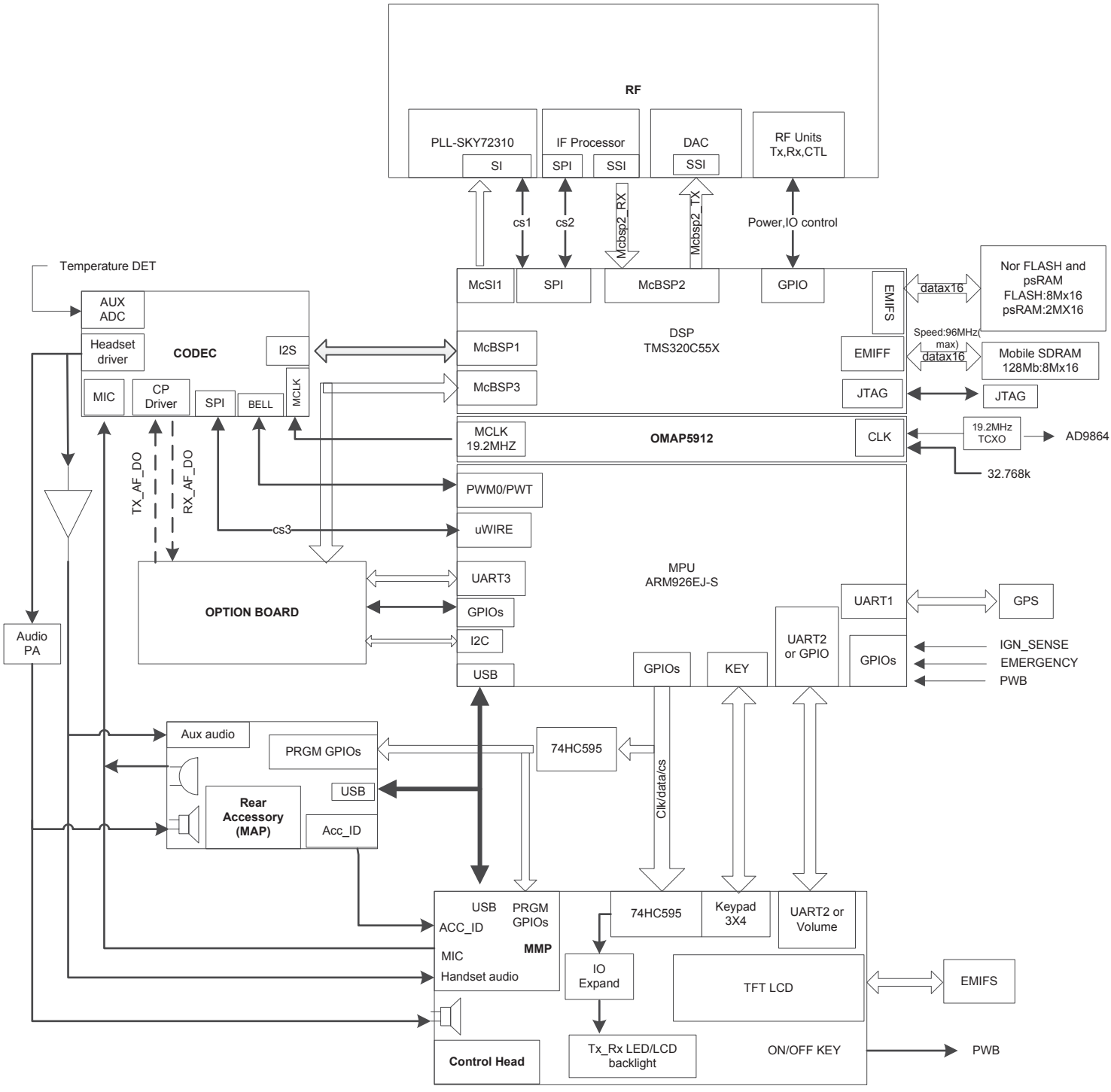
MD78X/MD78XG Block Diagram (Power Section)



MD78X/MD78XG Block Diagram (RF Section)

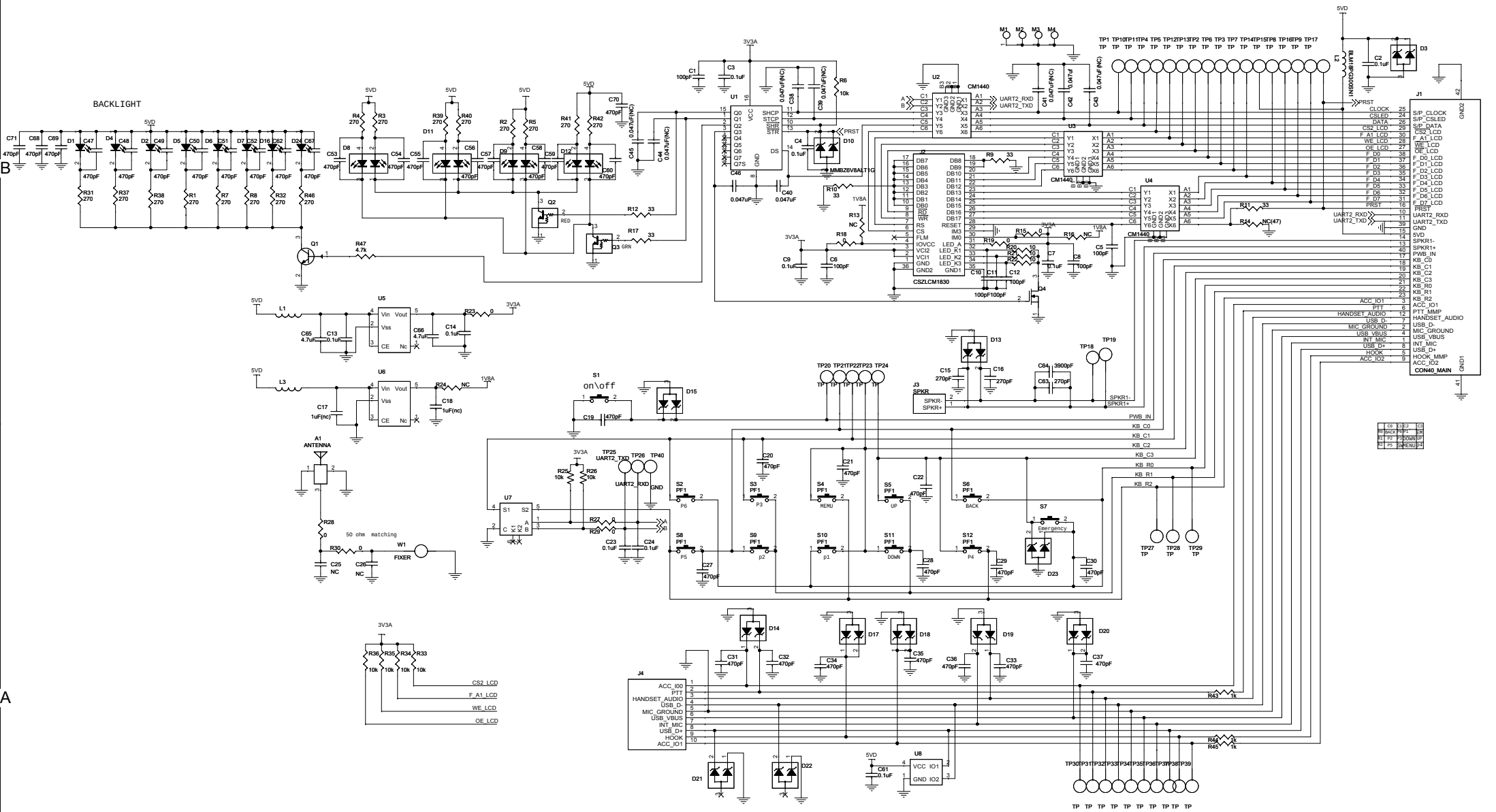


MD78X/MD78XG Block Diagram (Baseband Section)

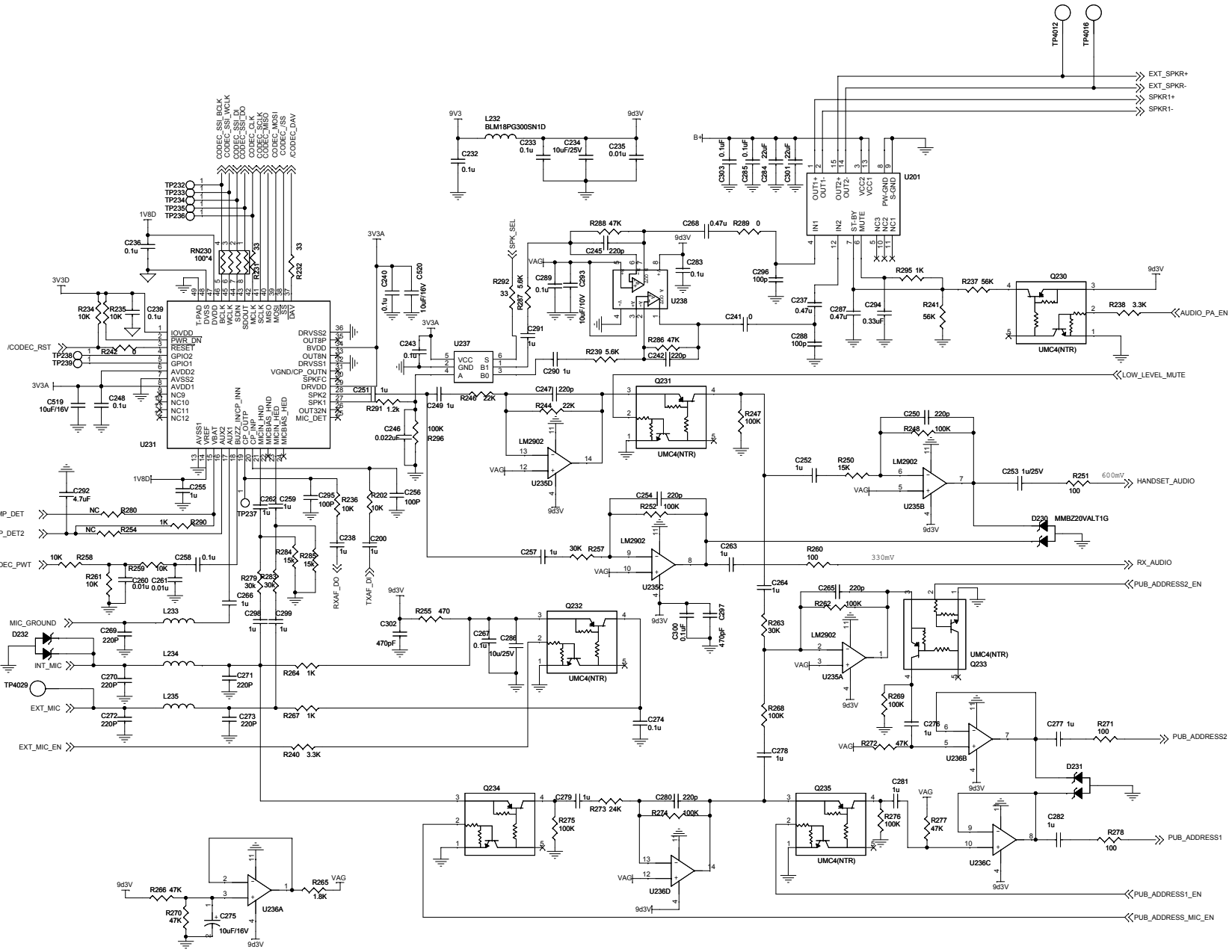


11. Schematic Diagram

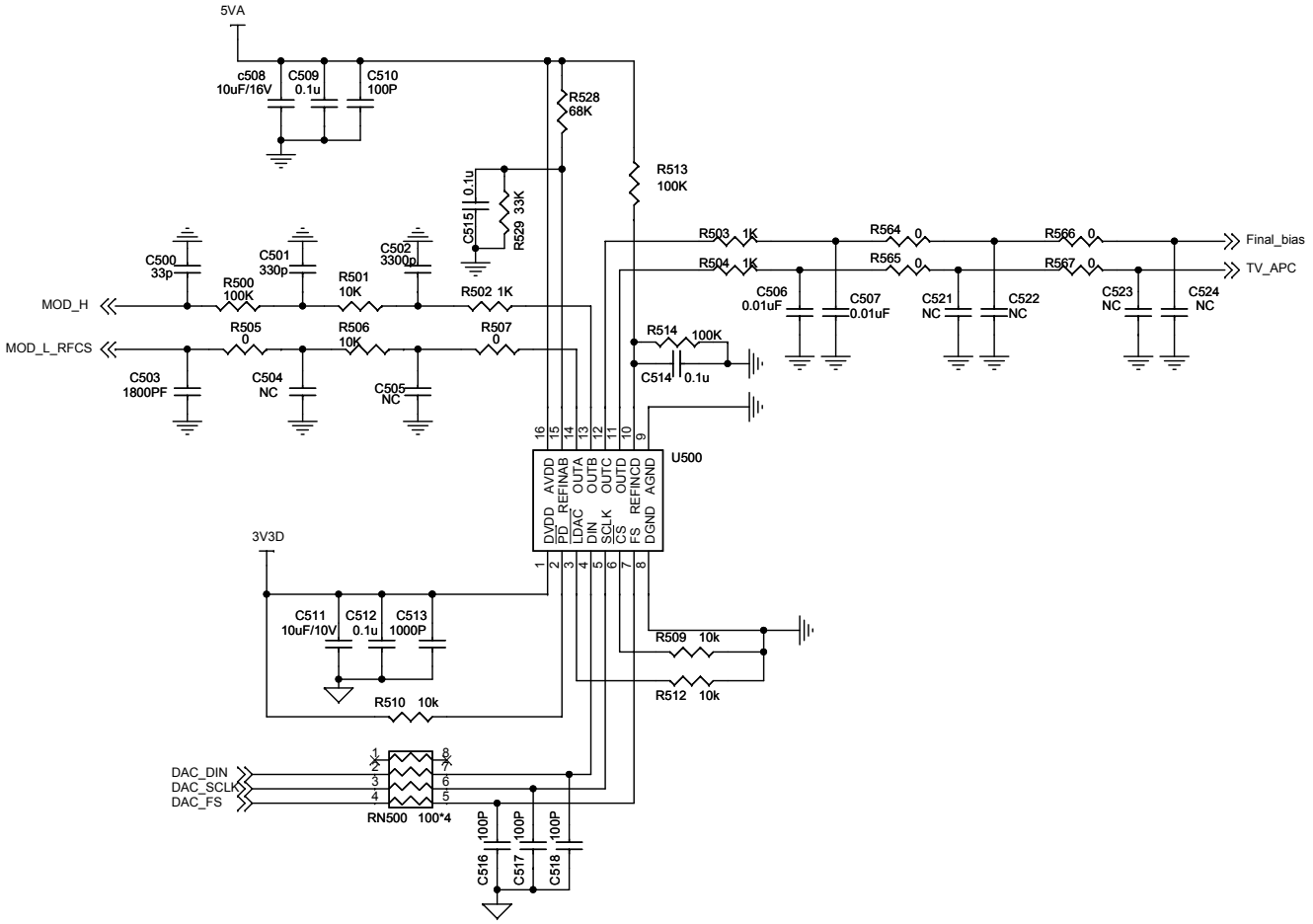
MD78X/MD78XG Schematic Diagram (Front Panel Circuit)



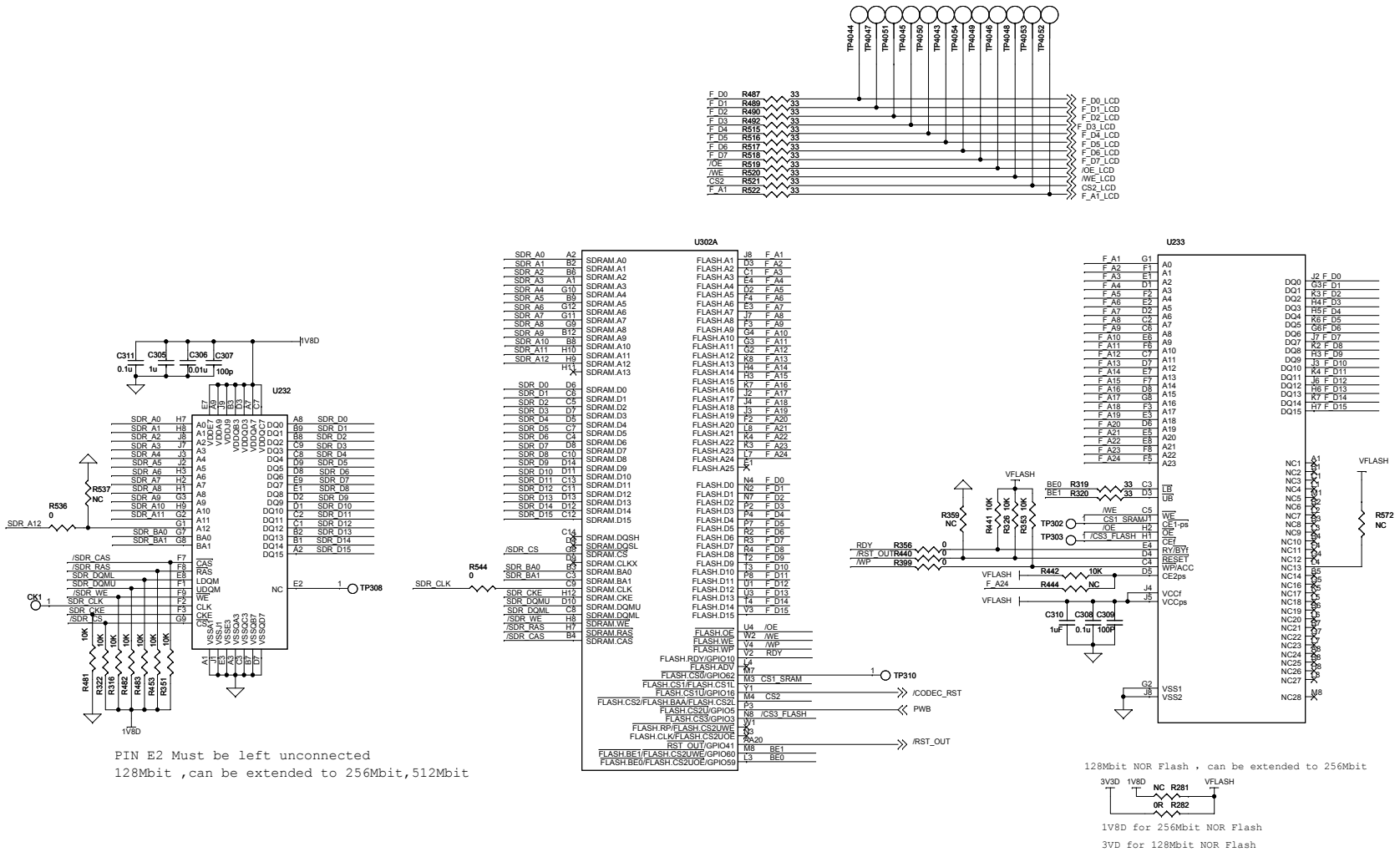
MD78X/MD78XG Schematic Diagram (Audio Circuit)



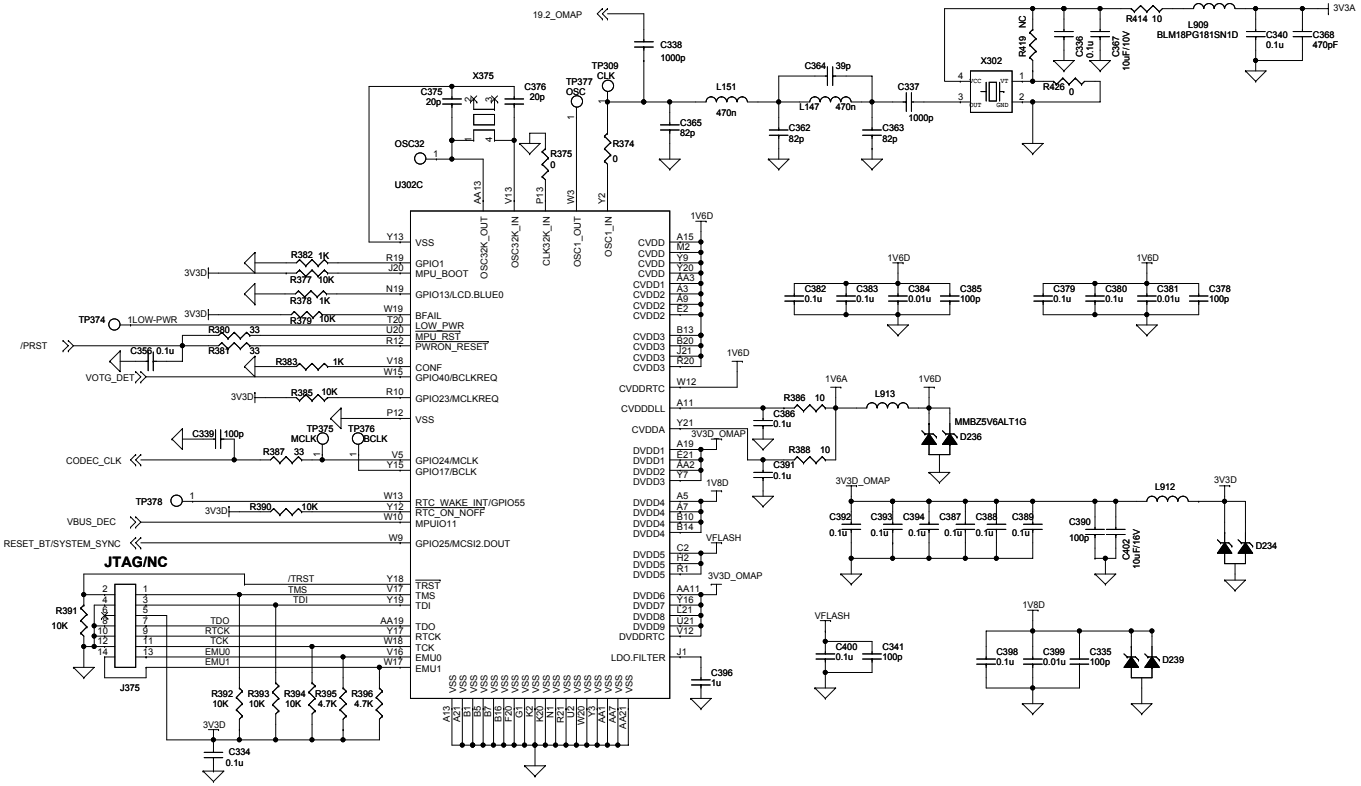
MD78X/MD78XG Schematic Diagram (DAC Circuit)



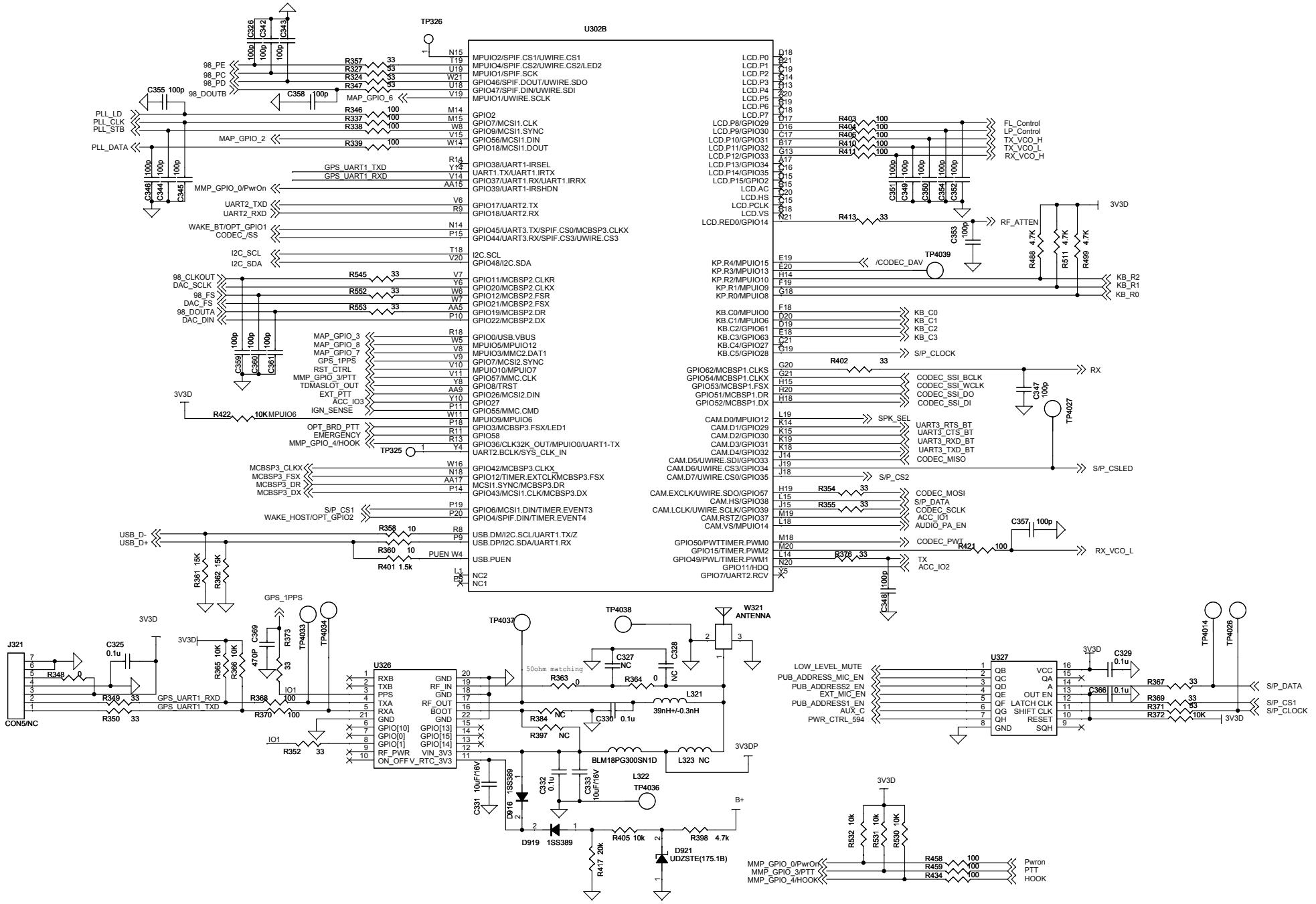
MD78X/MD78XG Schematic Diagram (Memory Circuit)



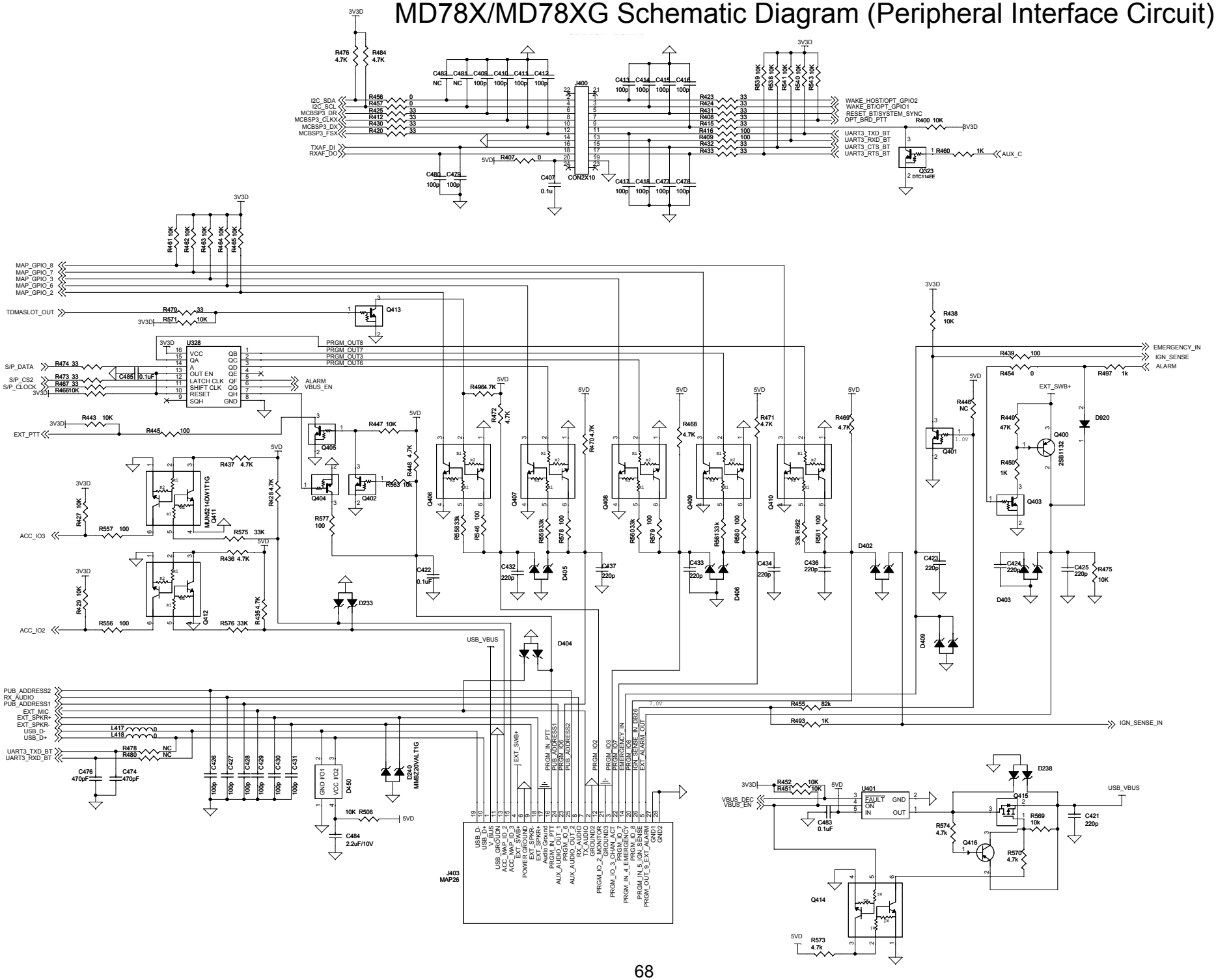
MD78X/MD78XG Schematic Diagram (OMAP Circuit)



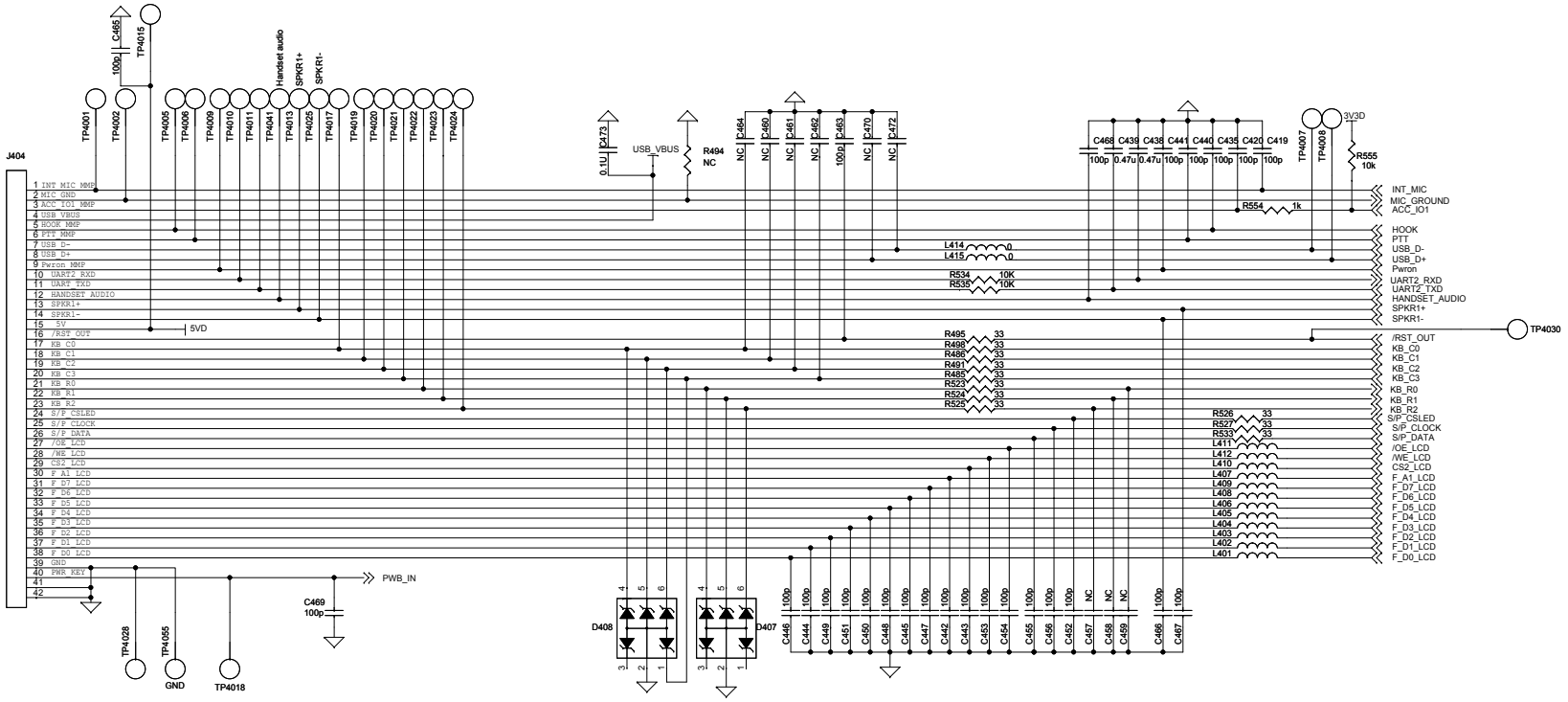
MD78X/MD78XG Schematic Diagram (OMAP & GPS Circuit)



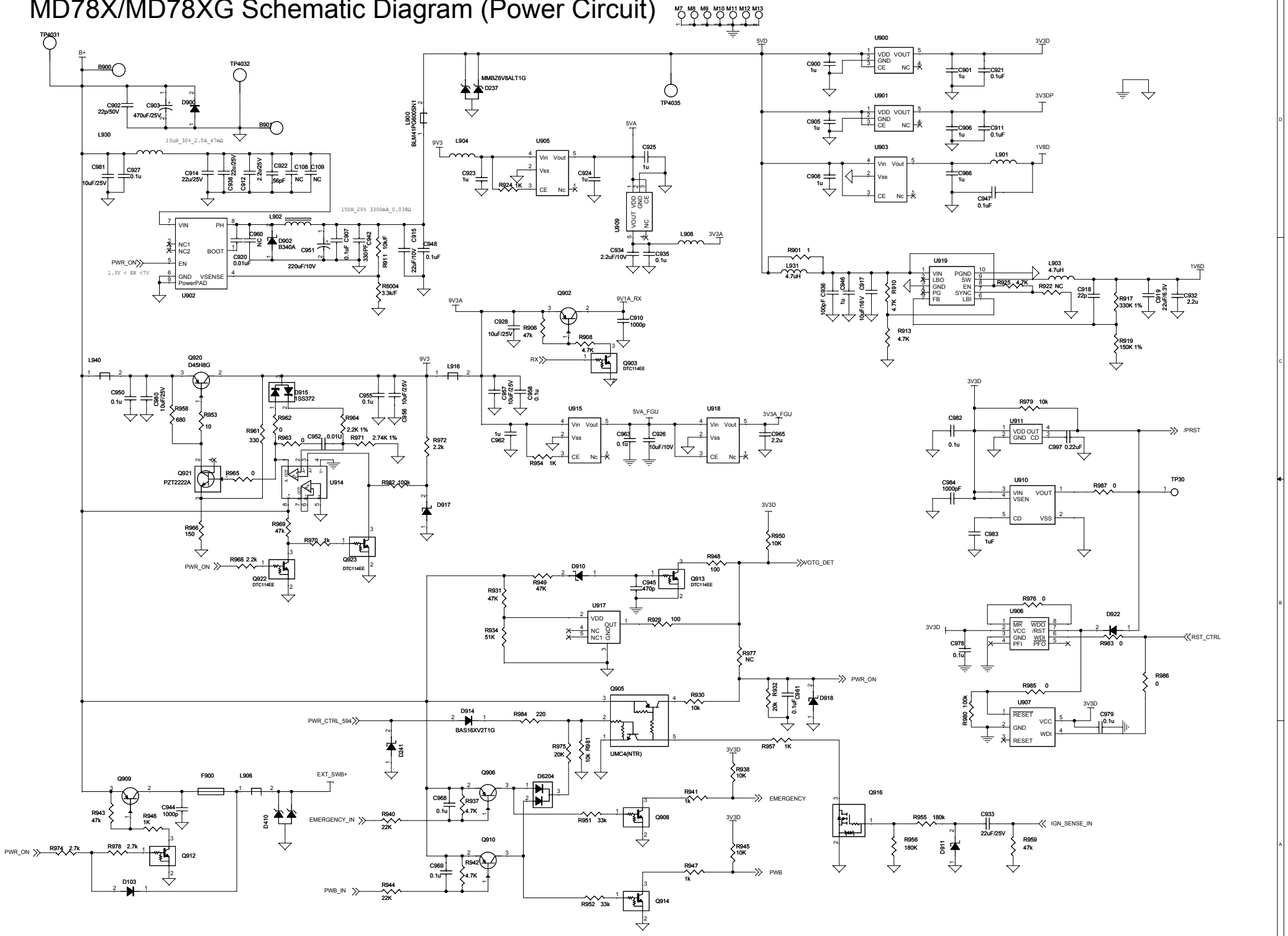
MD78X/MD78XG Schematic Diagram (Peripheral Interface Circuit)



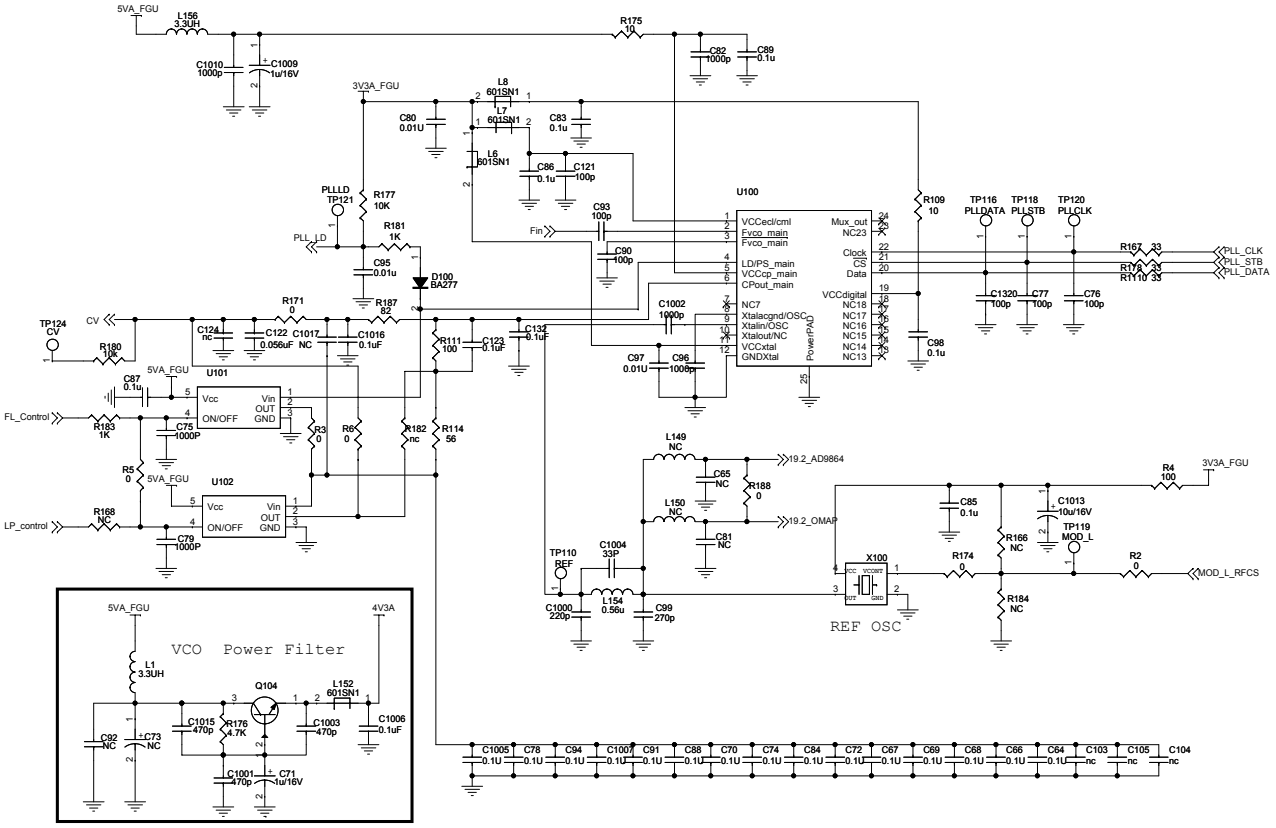
MD78X/MD78XG Schematic Diagram (40-Pin Interface Circuit)



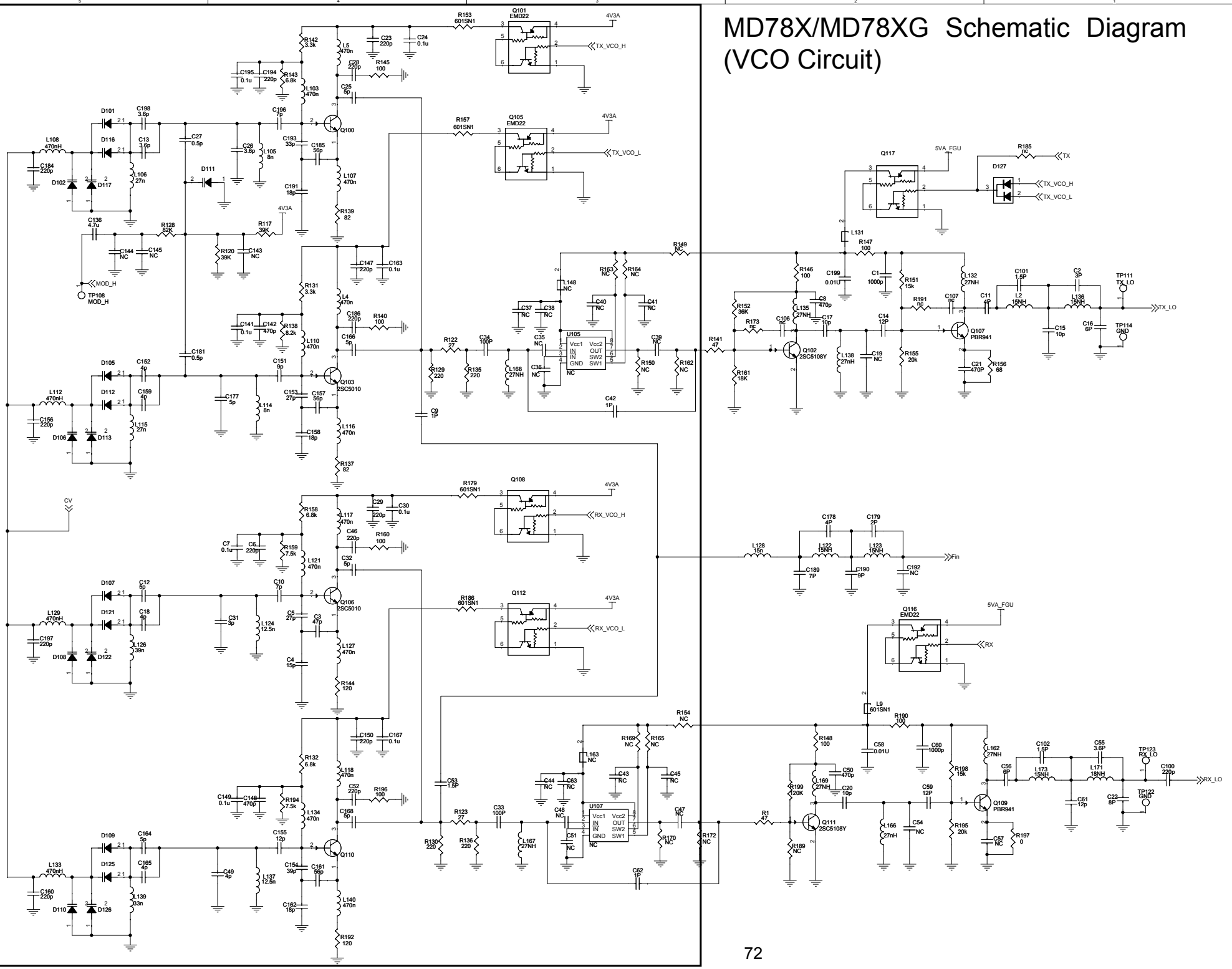
MD78X/MD78XG Schematic Diagram (Power Circuit)



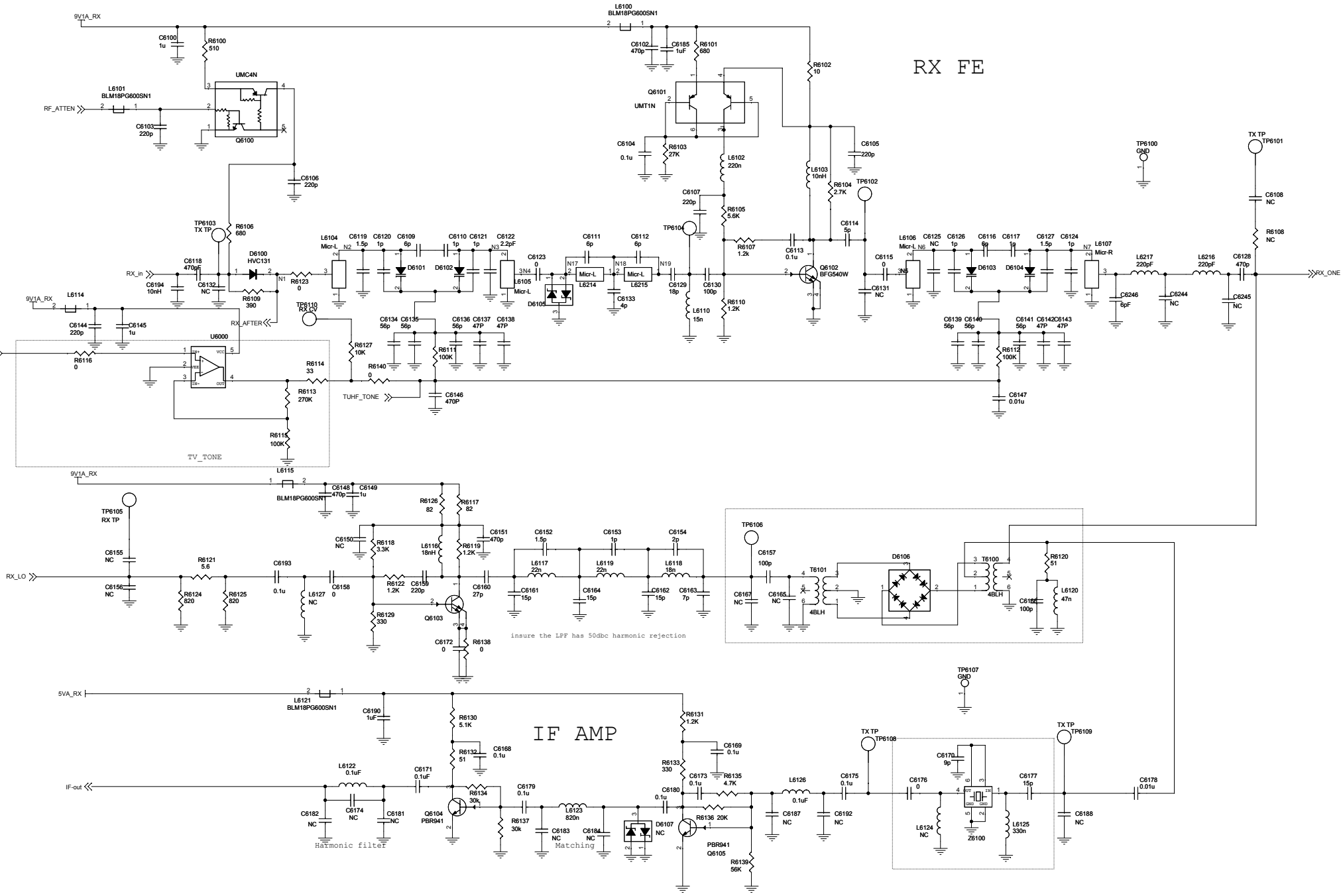
MD78X/MD78XG Schematic Diagram (PLL Circuit)



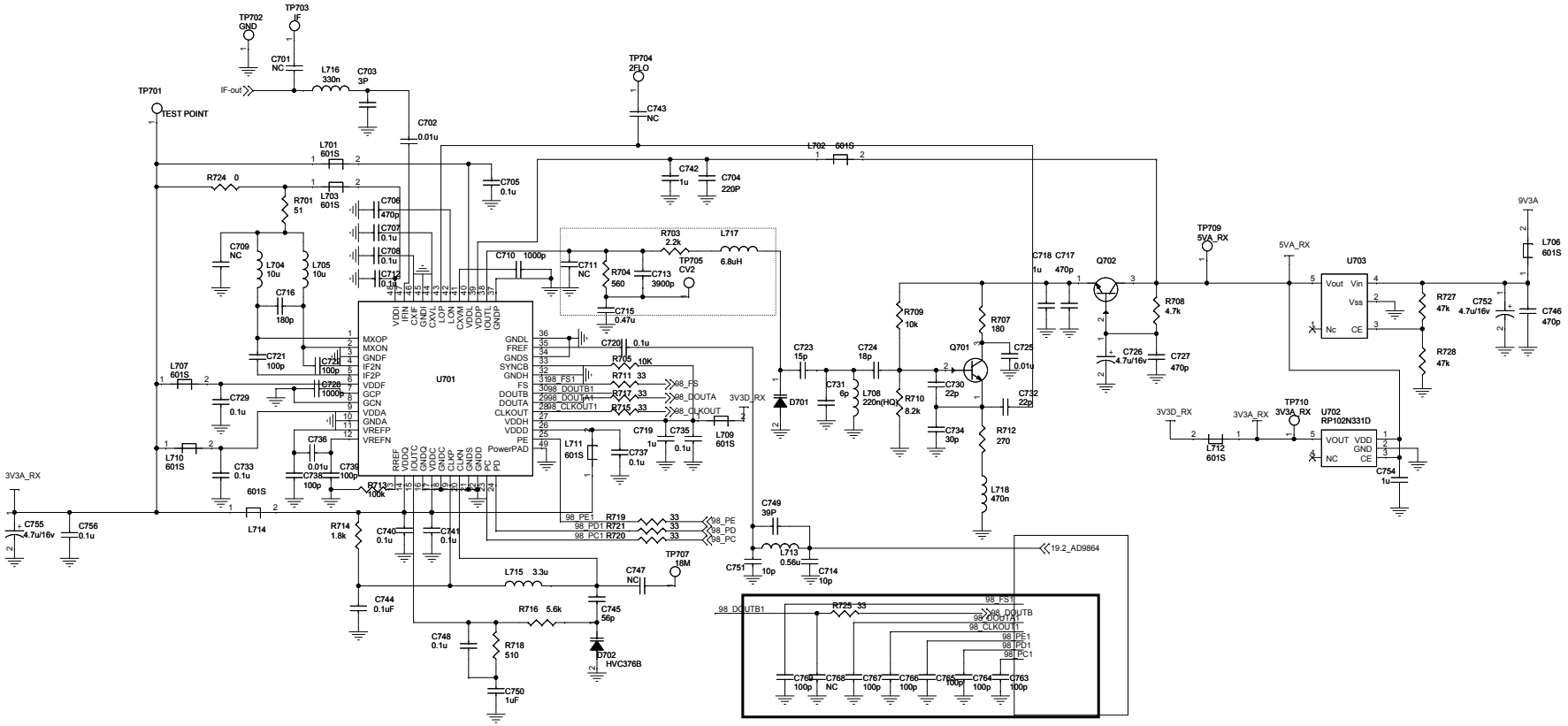
MD78X/MD78XG Schematic Diagram (VCO Circuit)



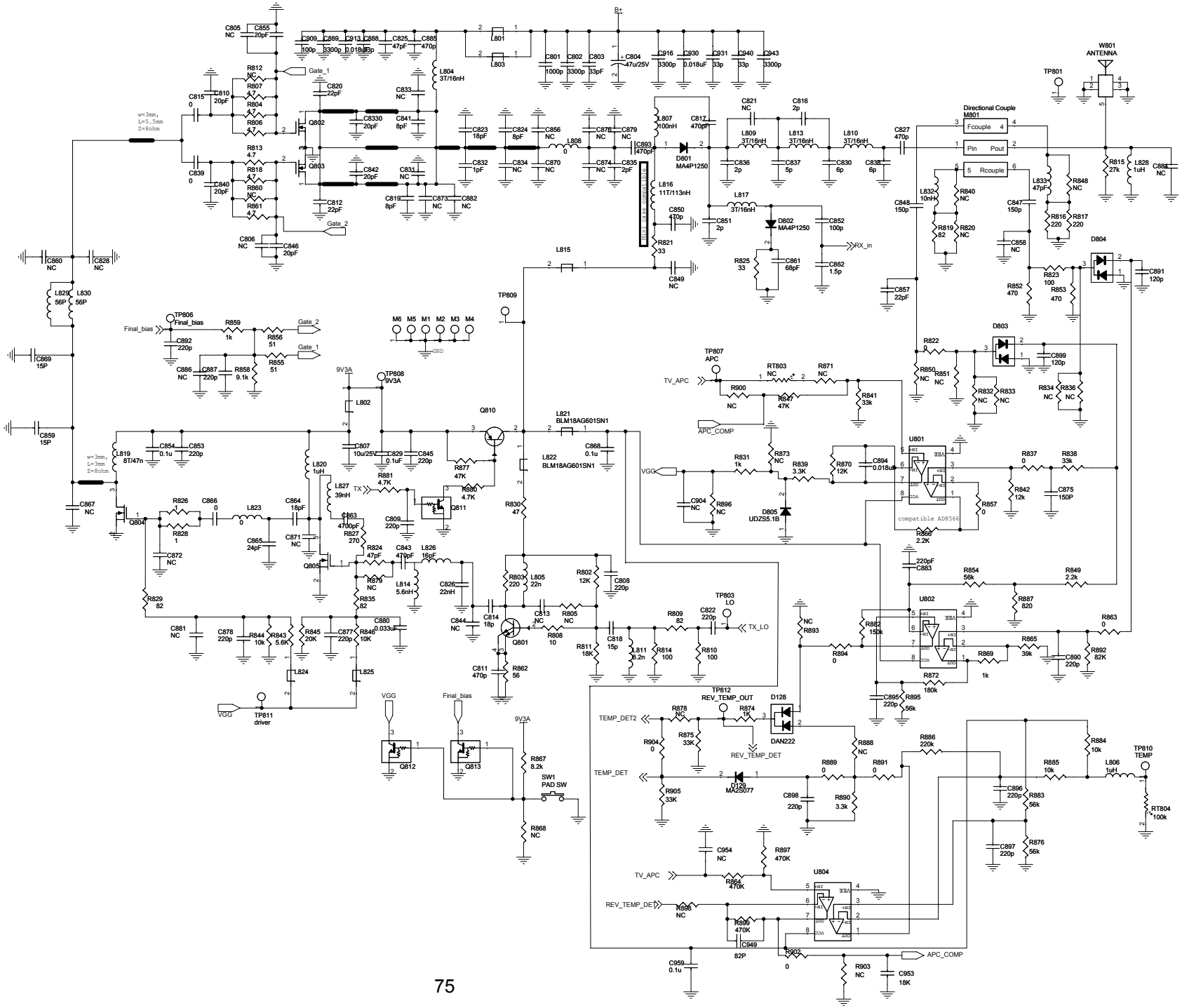
MD78X/MD78XG Schematic Diagram (RX Circuit)



MD78X/MD78XG Schematic Diagram (IF Circuit)



MD78X/MD78XG Schematic Diagram (TX Circuit)



12. Parts List

12.1 Front Panel

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	C1	B3H	3101051010030	100pF	72	D21	B4C	3310240000000	ESD protection diode
2	C10	B3G	3101051010030	100pF	73	D22	B4C	3310240000000	ESD protection diode
3	C11	B3G	3101051010030	100pF	74	D23	B4B	3310990000090	ESD protection diode
4	C12	B3G	3101051010030	100pF	75	D3	B4C	3310990000090	ESD protection diode
5	C13	B4H	3101051040010	0.1uF	76	D4	T5J	3307110100080	LED
6	C14	B3H	3101051040010	0.1uF	77	D5	T5H	3307110100080	LED
7	C15	B2K	3101052710000	270pF	78	D6	T3J	3307110100080	LED
8	C16	B2K	3101052710000	270pF	79	D7	T2J	3307110100080	LED
9	C19	B1L	3101054710010	470pF	80	D8	T2B	3307110300000	LED
10	C2	B4D	3101051040010	0.1uF	81	D9	T2A	3307110300000	LED
11	C20	B4D	3101054710010	470pF	82	J1	B4D	5206040200010	FFC connector
12	C21	B4D	3101054710010	470pF	83	J2	T2G	5206034200010	FPC connector
13	C22	B4D	3101054710010	470pF	84	L1	B4H	3221506300000	Ferrite bead
14	C23	B1E	3101051040010	0.1uF	85	L2	B4D	3221506300000	Ferrite bead
15	C24	B1E	3101051040010	0.1uF	86	PCB	/	41078001000J0	PCB control panel
16	C27	B4D	3101054710010	470pF	87	Q1	B2J	3414001000040	NPN transistor
17	C28	B4D	3101054710010	470pF	88	Q2	B2H	3403008000010	Transistor
18	C29	B4D	3101054710010	470pF	89	Q3	B2H	3403008000010	Transistor
19	C3	B3H	3101061040010	0.1uF	90	Q4	B2G	3599990000610	N-MOSFET
20	C30	B4D	3101054710010	470pF	91	R1	B5H	3001062710000	270Ω
21	C31	B4B	3101054710010	470pF	92	R10	B2G	3001063300000	33Ω
22	C32	B4B	3101054710010	470pF	93	R11	B3F	3001063300000	33Ω
23	C33	B4B	3101054710010	470pF	94	R12	B2H	3001063300000	33Ω
24	C34	B5B	3101054710010	470pF	95	R15	B3G	3001060000000	0Ω
25	C35	B5C	3101054710010	470pF	96	R17	B2H	3001063300000	33Ω
26	C36	B5B	3101054710010	470pF	97	R18	B2G	3001060000000	0Ω
27	C37	B5D	3101054710010	470pF	98	R19	B3G	3001070000000	0Ω
28	C39	T3H	3101055620010	5600pF	99	R2	B2B	3001062710000	270Ω
29	C4	B3I	3101054740020	0.47uF	100	R20	B2G	3001061000000	10Ω
30	C46	B2H	3101054730000	0.047uF	101	R21	B2G	3001061000000	10Ω
31	C47	B5F	3101054710010	470pF	102	R22	B2G	3001061000000	10Ω
32	C48	B5J	3101054710010	470pF	103	R23	B3H	3001060000000	0Ω
33	C49	B2J	3101054710010	470pF	104	R25	B1D	3001051030000	10kΩ
34	C5	B3G	3101051010030	100pF	105	R26	B1D	3001051030000	10kΩ
35	C50	B5H	3101054710010	470pF	106	R27	B1E	3001060000000	0Ω
36	C51	B4J	3101054710010	470pF	107	R28	B3A	3001050000000	0Ω
37	C52	B2J	3101054710010	470pF	108	R29	B1E	3001060000000	0Ω
38	C53	B2B	3101054710010	470pF	109	R3	B2B	3001062710000	270Ω
39	C54	B2B	3101054710010	470pF	110	R30	B3A	3001050000000	0Ω
40	C55	B1C	3101054710010	470pF	111	R31	B5F	3001062710000	270Ω
41	C56	B1B	3101054710010	470pF	112	R32	B1L	3001062710000	270Ω
42	C57	B2A	3101054710010	470pF	113	R33	B2C	3001051030000	10kΩ
43	C58	B2A	3101054710010	470pF	114	R34	B2C	3001051030000	10kΩ
44	C59	B1A	3101054710010	470pF	115	R35	B2C	3001051030000	10kΩ
45	C6	T2G	3101051010030	100pF	116	R36	B2C	3001051030000	10kΩ
46	C60	B1A	3101054710010	470pF	117	R37	B5J	3001062710000	270Ω
47	C61	B4C	3101051040010	0.1uF	118	R38	B2J	3001062710000	270Ω
48	C62	B1M	3101054710010	470pF	119	R39	B1C	3001062710000	270Ω
49	C63	B2K	3101052710000	270pF	120	R4	B2B	3001062710000	270Ω
50	C64	B2K	3101053920000	3900pF	121	R40	B1B	3001062710000	270Ω
51	C65	B4H	3101074750000	4.7uF	122	R41	B1A	3001062710000	270Ω
52	C66	B3H	3101074750000	4.7uF	123	R42	B1A	3001062710000	270Ω
53	C67	B1M	3101054710010	470pF	124	R43	B4B	3001061020010	1kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
54	C68	B1L	3101054710010	470pF	125	R44	B5A	3001061020010	1kΩ
55	C69	B1C	3101054710010	470pF	126	R45	B5D	3001061020010	1kΩ
56	C7	T2G	3101061040010	0.1uF	127	R46	B1L	3001062710000	270Ω
57	C70	B1A	3101054710010	470pF	128	R47	B2I	3001061020010	1kΩ
58	C71	B5F	3101054710010	470pF	129	R5	B2B	3001062710000	270Ω
59	C8	B3G	3101051010030	100pF	130	R6	B3H	3001061030010	10kΩ
60	C9	B3G	3101061040010	0.1uF	131	R7	B3J	3001062710000	270Ω
61	D1	T5F	3307110100080	LED	132	R8	B3J	3001062710000	270Ω
62	D10	B3I	3310990000090	ESD protection diode	133	R9	B2G	3001063300000	33Ω
63	D11	T1B	3307110300000	LED	134	S1	T1M	4301080000090	Momentary contact switch
64	D12	T1A	3307110300000	LED	135	S7	T3A	4301080000090	Momentary contact switch
65	D13	B2K	3310240000000	ESD protection diode	136	U1	B2H	3607010000400	Logic IC
66	D14	B4B	3310990000090	ESD protection diode	137	U2	B3H	3805010860000	EMI filter
67	D17	B5A	3310990000090	ESD protection diode	138	U3	B3F	3805010860000	EMI filter
68	D18	B5C	3310990000090	ESD protection diode	139	U4	B3F	3805010860000	EMI filter
69	D19	B4B	3310240000000	ESD protection diode	140	U5	B4H	3608015000210	Power management IC
70	D2	T1J	3307110100080	LED	141	U8	B4C	3699037000010	USB protection IC
71	D20	B5C	3310990000090	ESD protection diode	/	/	/	/	/

12.2 GPS Circuit

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	C330	T3A	3101051040010	0.1uF	13	R364	T3A	3001050000000	0Ω
2	C331	T2A	3101081060010	10uF	14	R365	T3C	3001051030000	10kΩ
3	C332	T2A	3101051040010	0.1uF	15	R366	T3C	3001051030000	10kΩ
4	C333	T3A	3101081060010	10uF	16	R368	T3C	3001051010000	100Ω
5	C369	T3C	3101054710010	470pF	17	R370	T3C	3001051010000	100Ω
6	D916	T2A	3303010500090	Switching diode	18	R373	T3C	3001053300010	33Ω
7	D919	T2A	3303010500090	Switching diode	19	R398	T3A	3001054720000	4.7kΩ
8	D921	T2A	3302030500030	Zener diode	20	R405	T2A	3001061030000	10kΩ
9	L321	T3A	3212106390000	39nH	21	R417	T2A	3001062030000	20kΩ
10	L322	T3A	3221506300000	Ferrite bead	22	U326	T3B	3625999000060	GPS module
11	R352	T2C	3001053300010	33Ω	23	W321	T3A	4411100002000	IPX RF connector
12	R363	T3A	3001050000000	0Ω	/	/	/	/	/

12.3 Main Board (25 W)

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	B	/	6203077000000	VCO shielding mask	768	L404	B7A	3221506300000	Ferrite bead
2	C	/	6202010000010	APC shielding mask	769	L405	B7A	3221506300000	Ferrite bead
3	C1	T7E	3101051020010	1000pF	770	L406	B7A	3221506300000	Ferrite bead
4	C10	B7G	3101060700020	7pF	771	L407	B7B	3221506300000	Ferrite bead
5	C100	T7G	3101052210010	220pF	772	L408	B7B	3221506300000	Ferrite bead
6	C1000	T8F	3101052210010	220pF	773	L409	B7B	3221506300000	Ferrite bead
7	C1001	B7F	3101054710010	470pF	774	L410	B7B	3221506300000	Ferrite bead
8	C1002	T8F	3101051020010	1000pF	775	L411	B7B	3221506300000	Ferrite bead
9	C1003	B7F	3101054710010	470pF	776	L412	B7B	3221506300000	Ferrite bead
10	C1004	T8F	3101063300000	33pF	777	L414	B8C	3001050000000	0Ω
11	C1005	T6F	3110071040000	0.1uF	778	L415	B8C	3001050000000	0Ω
12	C1006	B8F	3101051040010	0.1uF	779	L417	T2C	3001050000000	0Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
13	C1007	T6F	3110071040000	0.1uF	780	L418	T2C	3001050000000	0Ω
14	C101	T7E	3101051590000	1.5pF	781	L5	B7E	3217607471000	470nH
15	C1010	T7F	3101051020010	1000pF	782	L6	T8F	3221506601000	Ferrite bead
16	C1015	B7F	3101054710010	470pF	783	L6100	T6I	3211506101000	Ferrite bead
17	C1016	T7F	3101061040010	0.1uF	784	L6101	T4I	3211506101000	Ferrite bead
18	C102	T7G	3101061590010	1.5pF	785	L6102	T5I	3210306221000	220nH
19	C11	T7E	3101050400010	4pF	786	L6103	T6J	3212106100000	10nH
20	C12	B7G	3101050500030	5pF	787	L6110	T5J	3210306150000	15nH
21	C121	T7F	3101051010030	100pF	788	L6114	B4I	3211506101000	Ferrite bead
22	C122	T7F	3101065630000	0.056uF	789	L6115	B7H	3211506101000	Ferrite bead
23	C123	T7F	3101061040010	0.1uF	790	L6116	B8H	3210306180000	18nH
24	C13	B7E	3101053690030	3.6pF	791	L6117	B8I	3210306220000	22nH
25	C132	T7F	3101061040010	0.1uF	792	L6118	B8I	3210306180000	18nH
26	C1320	T8F	3101051010030	100pF	793	L6119	B8I	3210306220000	22nH
27	C136	B7E	3101074750010	4.7uF	794	L6120	T7I	3210306470000	47nH
28	C14	T7E	3101051200020	12pF	795	L6121	T7I	3211506101000	Ferrite bead
29	C141	B7F	3101051040010	0.1uF	796	L6122	T7I	3101061040010	0.1uF
30	C142	B7F	3101054710010	470pF	797	L6123	T7H	3213306821000	0.82uH
31	C147	B8F	3101052210010	220pF	798	L6125	T8I	3210406331000	330nH
32	C148	B7H	3101054710010	470pF	799	L6126	T8H	3101061040010	0.1uF
33	C149	B7H	3101051040010	0.1uF	800	L6216	T6J	3101052210010	220pF
34	C15	T7E	3101051000020	10pF	801	L6217	T6J	3101052210010	220pF
35	C150	B8G	3101052210010	220pF	802	L7	T7G	3221506601000	Ferrite bead
36	C151	B7F	3101060900010	9pF	803	L701	T6H	3221506601000	Ferrite bead
37	C152	B7E	3101054090010	4pF	804	L702	T6H	3221506601000	Ferrite bead
38	C153	B7F	3101052700000	27pF	805	L703	T6H	3221506601000	Ferrite bead
39	C154	B7G	3101053900000	39pF	806	L704	T5I	3213212103000	10uH
40	C155	B7G	3101061200000	12pF	807	L705	T5I	3213212103000	10uH
41	C156	B6E	3101052210010	220pF	808	L706	T4H	3221506601000	Ferrite bead
42	C157	B7F	3101055600000	56pF	809	L707	T5I	3221506601000	Ferrite bead
43	C158	B7F	3101051800070	18pF	810	L708	B6H	3217107221010	220nH
44	C159	B7F	3101054090010	4pF	811	L709	T5G	3221506601000	Ferrite bead
45	C16	T6E	3101050600010	6pF	812	L710	T5H	3221506601000	Ferrite bead
46	C160	B6G	3101052210010	220pF	813	L711	T5H	3221506601000	Ferrite bead
47	C161	B7G	3101055600000	56pF	814	L712	T6I	3221506601000	Ferrite bead
48	C162	B7G	3101051800070	18pF	815	L713	T5G	3213306561000	0.56uH
49	C163	B8F	3101051040010	0.1uF	816	L714	T5H	3221506601000	Ferrite bead
50	C164	B7G	3101050500030	5pF	817	L715	B5H	3213212332000	3.3uH
51	C165	B7G	3101050400010	4pF	818	L716	T6H	3210406331000	330nH
52	C166	B8F	3101050500010	5pF	819	L717	T6G	3212206682000	6.8uH
53	C167	B8G	3101051040010	0.1uF	820	L718	B6H	3210406471000	470nH
54	C168	B8G	3101050500010	5pF	821	L8	T8F	3221506601000	Ferrite bead
55	C17	T7E	3101061000000	10pF	822	L801	B2F	3221513600000	Ferrite bead
56	C177	B7F	3101060500010	5pF	823	L802	T5E	3221513600000	Ferrite bead
57	C178	T7G	3101060400010	4pF	824	L803	B2F	3221513600000	Ferrite bead
58	C179	T7G	3101060200010	2pF	825	L804	T2F	3233099160000	Air-core coil 16nH
59	C18	B7G	3101054090010	4pF	826	L805	B5E	3210306220000	22nH
60	C181	B7E	3101050590010	0.5pF	827	L806	B3G	3001060000000	0Ω
61	C184	B6E	3101052210010	220pF	828	L807	T1H	3210306101000	100nH
62	C185	B7E	3101055600000	56pF	829	L808	T1G	3001080000000	0Ω
63	C186	B7F	3101052210010	220pF	830	L809	T2H	3233099160000	Air-core coil 16nH
64	C189	T7G	3101060700020	7pF	831	L810	T3H	3233099160000	Air-core coil 16nH
65	C190	T7G	3101060900010	9pF	832	L811	B6E	3217106829010	8.2nH
66	C191	B7E	3101051800070	18pF	833	L813	T3H	3233099160000	Air-core coil 16nH
67	C193	B7E	3101053300000	33pF	834	L814	T5E	3212106569000	5.6nH
68	C194	B7E	3101052210010	220pF	835	L815	B2I	3221506601000	Ferrite bead
69	C195	B7E	3101051040010	0.1uF	836	L816	B2H	3233099111000	Air-core coil 111nH
70	C196	B7E	3101060700020	7pF	837	L817	T2I	3233099160000	Air-core coil 16nH
71	C197	B6G	3101052210010	220pF	838	L819	T5F	3233099470000	Air-core coil 47nH
72	C198	B7E	3101053690030	3.6pF	839	L820	T5E	3217112102020	1uH
73	C199	T7E	3101051030020	0.01uF	840	L821	B4H	3221506601000	Ferrite bead
74	C2	T6E	3101060300010	3pF	841	L822	B5E	3221506601000	Ferrite bead

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
75	C20	T8G	3101061000000	10pF	842	L823	T6F	3001060000000	0Ω
76	C200	B5D	3101061050020	1uF	843	L824	T6F	3221506601000	Ferrite bead
77	C21	T7E	3101054710010	470pF	844	L825	T6E	3221506601000	Ferrite bead
78	C22	T7H	3101050800000	8pF	845	L826	T5E	3101061600000	16pF
79	C23	B8E	3101052210010	220pF	846	L827	T6E	3212106390000	40nH
80	C232	B4C	3101051040010	0.1uF	847	L828	T1J	3217112102020	1uH
81	C233	B4C	3101051040010	0.1uF	848	L830	T5F	3101061210020	120pF
82	C234	B4C	3101081060010	10uF	849	L832	T3I	3212106829000	8.2nH
83	C235	B4C	3101051030020	0.01uF	850	L833	T2J	3101064700000	47pF
84	C236	B6C	3101051040010	0.1uF	851	L9	T7G	3221506601000	Ferrite bead
85	C237	B5B	3101054740020	0.47uF	852	L900	T4B	3221513600000	Ferrite bead
86	C238	B5D	3101061050020	1uF	853	L901	T5B	3221506300000	Ferrite bead
87	C239	B6C	3101051040010	0.1uF	854	L902	T4C	3217699153000	15uH
88	C24	B8E	3101051040010	0.1uF	855	L903	T5C	3213099472000	4.7uH
89	C240	B6D	3101051040010	0.1uF	856	L904	B4D	3221506181000	180Ω
90	C241	B5B	3001060000000	0Ω	857	L906	B2B	3221513600000	Ferrite bead
91	C242	B6B	3101062210000	220pF	858	L908	B5D	3221506181000	180Ω
92	C243	B6B	3101051040010	0.1uF	859	L909	T7A	3221506181000	180Ω
93	C245	B6A	3101062210000	220pF	860	L912	T5C	3221506300000	Ferrite bead
94	C246	B6B	3101052230000	0.022uF	861	L913	T6C	3221506300000	Ferrite bead
95	C247	B5C	3101052210010	220pF	862	L916	T3D	3221513600000	Ferrite bead
96	C248	B6C	3101051040010	0.1uF	863	L930	T4D	3241799103000	10uH
97	C249	B5C	3101061050020	1uF	864	L931	T5D	3213099472000	4.7uH
98	C25	B8E	3101050500010	5pF	865	L940	T2D	3221513600000	Ferrite bead
99	C250	B5B	3101052210010	220pF	866	Q100	B7E	3408002000080	NPN transistor
100	C251	B5D	3101061050020	1uF	867	Q101	B8E	3403999000000	Transistor
101	C252	B5B	3101061050020	1uF	868	Q102	T7E	3401002000990	NPN transistor
102	C253	B5B	3101061050020	1uF	869	Q103	B7F	3408002000080	NPN transistor
103	C254	B5C	3101052210010	220pF	870	Q104	B7F	3403003000060	NPN transistor
104	C255	B5C	3101051050000	1uF	871	Q105	B8F	3403999000000	Transistor
105	C256	B5D	3101051010030	100pF	872	Q106	B7G	3408002000080	NPN transistor
106	C257	B5C	3101061050020	1uF	873	Q107	T7E	3404006000000	NPN transistor
107	C258	B5C	3101051040010	0.1uF	874	Q108	B8F	3403999000000	Transistor
108	C259	B5D	3101061050020	1uF	875	Q109	T7G	3404006000000	NPN transistor
109	C26	B7E	3101063690000	3.6pF	876	Q110	B7G	3408002000080	NPN transistor
110	C260	B5C	3101051030020	0.01uF	877	Q111	T8G	3401002000990	NPN transistor
111	C261	B5C	3101051030020	0.01uF	878	Q112	B8H	3403999000000	Transistor
112	C262	B5D	3101061050020	1uF	879	Q116	T7G	3403999000000	Transistor
113	C263	B5C	3101061050020	1uF	880	Q117	T6E	3403999000000	Transistor
114	C264	B5B	3101061050020	1uF	881	Q230	B6A	3499000000150	Transistor
115	C265	B5B	3101052210010	220pF	882	Q231	B5C	3499000000150	Transistor
116	C266	B5C	3101061050020	1uF	883	Q232	B5D	3499000000150	Transistor
117	C267	B5D	3101051040010	0.1uF	884	Q233	B4B	3499000000150	Transistor
118	C268	B6A	3101064740010	0.47uF	885	Q234	B4C	3499000000150	Transistor
119	C269	B5C	3101052210010	220pF	886	Q235	B4C	3499000000150	Transistor
120	C27	B7E	3101050590010	0.5pF	887	Q323	T7C	3403008000010	Transistor
121	C270	B5D	3101052210010	220pF	888	Q400	B2A	3403002000000	PNP transistor
122	C271	B5D	3101052210010	220pF	889	Q401	B2A	3403008000010	Transistor
123	C272	B5D	3101052210010	220pF	890	Q402	T2B	3403008000010	Transistor
124	C273	B5D	3101052210010	220pF	891	Q403	B2A	3403008000010	Transistor
125	C274	B5D	3101051040010	0.1uF	892	Q404	B2B	3403008000010	Transistor
126	C275	B4B	3101071060010	10uF	893	Q405	T2A	3403008000010	Transistor
127	C276	B4B	3101051050000	1uF	894	Q406	B2C	3414999000000	Transistor
128	C277	B4B	3101061050020	1uF	895	Q407	B2B	3414999000000	Transistor
129	C278	B4C	3101061050020	1uF	896	Q408	B2B	3414999000000	Transistor
130	C279	B4C	3101061050020	1uF	897	Q409	B2C	3414999000000	Transistor
131	C28	B7E	3101052210010	220pF	898	Q410	B2C	3414999000000	Transistor
132	C280	B4C	3101052210010	220pF	899	Q411	T2B	3414999000000	Transistor
133	C281	B4C	3101061050020	1uF	900	Q412	T2C	3414999000000	Transistor
134	C282	B4C	3101061050020	1uF	901	Q413	T6C	3403008000010	Transistor
135	C283	B6A	3101061040010	0.1uF	902	Q414	T2C	3414999000000	Transistor
136	C284	B5B	3101092260010	22uF	903	Q415	T2C	3599990000710	P-MOSFET
137	C285	B5A	3101051040010	0.1uF	904	Q416	T2C	3414001000020	PNP transistor

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
138	C286	B5D	3101081060010	10uF	905	Q6100	T4J	3499000000150	Transistor
139	C287	B5A	3101064740000	0.47uF	906	Q6101	T5I	3403014000020	Transistor
140	C288	B5B	3101051010030	100pF	907	Q6102	T5J	3404999000000	NPN transistor
141	C289	B6A	3101061040010	0.1uF	908	Q6103	B8I	3404999000000	NPN transistor
142	C29	B8F	3101052210010	220pF	909	Q6104	T7I	3404006000000	NPN transistor
143	C290	B6B	3101061050020	1uF	910	Q6105	T7H	3404006000000	NPN transistor
144	C291	B6B	3101061050020	1uF	911	Q701	B6H	3408002000000	NPN transistor
145	C292	B5C	3101064750030	4.7uF	912	Q702	B6H	3403003000060	NPN transistor
146	C293	B6B	3101071060010	10uF	913	Q801	B6E	3404999000000	NPN transistor
147	C294	B5A	3101063340010	0.33uF	914	Q803	T4F	3601017000000	RF PA module
148	C295	B5C	3101051010030	100pF	915	Q804	T5F	3504990000070	N-MOSFET
149	C296	B5A	3101051010030	100pF	916	Q805	T5E	3504990000010	PA MOSFET
150	C297	B4C	3101064710000	470pF	917	Q810	B5E	3403002000000	PNP transistor
151	C298	B5D	3101061050020	1uF	918	Q811	B5E	3403008000010	Transistor
152	C299	B5D	3101061050020	1uF	919	Q812	B4G	3403008000010	Transistor
153	C3	B7G	3101054700010	47pF	920	Q813	B4G	3403008000010	Transistor
154	C30	B8F	3101051040010	0.1uF	921	Q902	T4H	3403002000000	PNP transistor
155	C300	B4C	3101061040010	0.1uF	922	Q903	T5H	3403008000010	Transistor
156	C301	B5A	3101092260010	22uF	923	Q905	B3A	3499000000150	Transistor
157	C302	B5D	3101054710010	470pF	924	Q906	B3B	3414001000020	PNP transistor
158	C303	B5B	3101051040010	0.1uF	925	Q908	B3B	3403008000010	Transistor
159	C305	B5B	3101051050000	1uF	926	Q909	B3B	3403002000010	PNP transistor
160	C306	B5B	3101051030020	0.01uF	927	Q910	B3B	3414001000020	PNP transistor
161	C307	B5B	3101051010030	100pF	928	Q912	B3A	3403008000010	Transistor
162	C308	B7A	3101051040010	0.1uF	929	Q913	B2A	3403008000010	Transistor
163	C309	B7A	3101051010030	100pF	930	Q914	B3B	3403008000010	Transistor
164	C31	B7F	3101060300010	3pF	931	Q916	B2A	3599990000610	N-MOSFET
165	C310	T6A	3101051050000	1uF	932	Q921	B2E	3404999000020	NPN transistor
166	C311	B5B	3101051040010	0.1uF	933	Q922	T2C	3403008000010	Transistor
167	C32	B8G	3101050500010	5pF	934	Q923	T2C	3403008000010	Transistor
168	C325	T8B	3101051040010	0.1uF	935	R1	T8G	3001054700000	47Ω
169	C326	T6C	3101051010030	100pF	936	R109	T8F	3001051000000	10Ω
170	C329	T6D	3101051040010	0.1uF	937	R111	T7F	3001061010000	100Ω
171	C33	B8G	3101051010030	100pF	938	R1110	T8G	3001053300010	33Ω
172	C330	T3A	3101051040010	0.1uF	939	R114	T7F	3001065600000	56Ω
173	C331	T2A	3101071060010	10uF	940	R117	B7E	3001053930000	39kΩ
174	C332	T2A	3101051040010	0.1uF	941	R120	B7E	3001053930000	39kΩ
175	C333	T3A	3101071060010	10uF	942	R122	B8E	3001052700010	27Ω
176	C334	T8D	3101051040010	0.1uF	943	R123	B8G	3001052700010	27Ω
177	C335	B6B	3101051010030	100pF	944	R128	B7E	3001058230000	82kΩ
178	C336	T7A	3101051040010	0.1uF	945	R129	B8E	3001052210000	220Ω
179	C337	T7B	3101051020010	1000pF	946	R130	B8G	3001052210000	220Ω
180	C338	T7B	3101051020010	1000pF	947	R131	B8F	3001053320000	3.3kΩ
181	C339	B7B	3101051010030	100pF	948	R132	B8G	3001056820000	6.8kΩ
182	C34	B8E	3101051010030	100pF	949	R135	B8E	3001052210000	220Ω
183	C340	T7A	3101051040010	0.1uF	950	R136	B8G	3001052210000	220Ω
184	C341	B6B	3101051010030	100pF	951	R137	B7E	3001068200000	82Ω
185	C342	B6C	3101051010030	100pF	952	R138	B7F	3001058220000	8.2kΩ
186	C343	T7C	3101051010030	100pF	953	R139	B7E	3001068200000	82Ω
187	C344	T7D	3101051010030	100pF	954	R140	B7E	3001051010040	100Ω
188	C345	T7C	3101051010030	100pF	955	R141	T7E	3001054700000	47Ω
189	C346	T7C	3101051010030	100pF	956	R142	B8E	3001053320000	3.3kΩ
190	C347	T6D	3101051010030	100pF	957	R143	B8E	3001056820000	6.8kΩ
191	C348	T6C	3101051010030	100pF	958	R144	B7G	3001061210000	120Ω
192	C349	T6C	3101051010030	100pF	959	R145	B7E	3001051010040	100Ω
193	C350	T6C	3101051010030	100pF	960	R146	T7E	3001051010040	100Ω
194	C351	T6C	3101051010030	100pF	961	R147	T7E	3001051010040	100Ω
195	C352	T6C	3101051010030	100pF	962	R148	T8G	3001051010040	100Ω
196	C353	T6C	3101051010030	100pF	963	R151	T7E	3001051530010	15kΩ
197	C354	T6C	3101051010030	100pF	964	R152	T7E	3001053630000	36kΩ
198	C355	B6C	3101051010030	100pF	965	R153	B8E	3221506601000	Ferrite bead
199	C356	T7C	3101051040010	0.1uF	966	R155	T7E	3001052030000	20kΩ
200	C357	T6C	3101051010030	100pF	967	R156	T7E	3001056800000	68Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
201	C358	T7D	3101051010030	100pF	968	R157	B8F	3221506601000	Ferrite bead
202	C359	B7D	3101051010030	100pF	969	R158	B8F	3001056820000	6.8kΩ
203	C360	B7D	3101051010030	100pF	970	R159	B7F	3001057520000	7.5kΩ
204	C361	B7D	3101051010030	100pF	971	R160	B7G	3001051010040	100Ω
205	C362	T7B	3101058200000	82pF	972	R161	T7E	3001051830000	18kΩ
206	C363	T7B	3101058200000	82pF	973	R167	T8G	3001053300010	33Ω
207	C364	T7B	3101053900000	39pF	974	R171	T7F	3001060000000	0Ω
208	C365	T7B	3101058200000	82pF	975	R174	T8E	3001050000000	0Ω
209	C366	T6D	3101051040010	0.1uF	976	R175	T7F	3001051000000	10Ω
210	C367	T7A	3101071060010	10uF	977	R176	B7F	3001054720000	4.7kΩ
211	C368	T7A	3101054710010	470pF	978	R177	T7F	3001051030000	10kΩ
212	C369	T3C	3101054710010	470pF	979	R178	T8G	3001053300010	33Ω
213	C375	T7B	3101052000020	20pF	980	R179	B8F	3221506601000	Ferrite bead
214	C376	T7C	3101052000020	20pF	981	R180	T6F	3001051030000	10kΩ
215	C378	B7B	3101051010030	100pF	982	R181	T7F	3001051020000	1kΩ
216	C379	B6B	3101051040010	0.1uF	983	R183	T7F	3001051020000	1kΩ
217	C380	B7B	3101051040010	0.1uF	984	R186	B8G	3221506601000	Ferrite bead
218	C381	B6C	3101051030020	0.01uF	985	R187	T7F	3001068200000	82Ω
219	C382	B6C	3101051040010	0.1uF	986	R188	T8F	3001050000000	0Ω
220	C383	B6C	3101051040010	0.1uF	987	R190	T7G	3001051010040	100Ω
221	C384	B6B	3101051030020	0.01uF	988	R192	B7G	3001061210000	120Ω
222	C385	B6B	3101051010030	100pF	989	R194	B8H	3001057520000	7.5kΩ
223	C386	B6B	3101051040010	0.1uF	990	R195	T7G	3001052030000	20kΩ
224	C387	B7B	3101051040010	0.1uF	991	R196	B7G	3001051010040	100Ω
225	C388	B7C	3101051040010	0.1uF	992	R197	T7H	3001050000000	0Ω
226	C389	B7B	3101051040010	0.1uF	993	R198	T7G	3001051530010	15kΩ
227	C390	B6C	3101051010030	100pF	994	R199	T8G	3001051240000	120kΩ
228	C391	T7C	3101051040010	0.1uF	995	R2	T8E	3001060000000	0Ω
229	C392	B6C	3101051040010	0.1uF	996	R202	B5D	3001051030000	10kΩ
230	C393	B6C	3101051040010	0.1uF	997	R231	B6C	3001053300010	33Ω
231	C394	B7B	3101051040010	0.1uF	998	R232	B6D	3001053300010	33Ω
232	C396	T6B	3101061050020	1uF	999	R234	B6C	3001051030000	10kΩ
233	C398	B6B	3101051040010	0.1uF	1000	R235	B6C	3001051030000	10kΩ
234	C399	B6B	3101051030020	0.01uF	1001	R236	B5D	3001051030000	10kΩ
235	C4	B7G	3101051500080	15pF	1002	R237	B5A	3001055630000	56kΩ
236	C400	B7B	3101051040010	0.1uF	1003	R238	B5B	3001053320000	3.3kΩ
237	C402	T6C	3101071060010	10uF	1004	R239	B6B	3001055620000	5.6kΩ
238	C407	T8C	3101051040010	0.1uF	1005	R240	T6D	3001053320000	3.3kΩ
239	C409	T7C	3101051010030	100pF	1006	R241	B5A	3001055630000	56kΩ
240	C410	T8C	3101051010030	100pF	1007	R242	B6C	3001050000000	0Ω
241	C411	T8C	3101051010030	100pF	1008	R244	B5C	3001052230010	22kΩ
242	C412	T8C	3101051010030	100pF	1009	R246	B5C	3001052230010	22kΩ
243	C413	T7C	3101051010030	100pF	1010	R247	B5B	3001051040010	100kΩ
244	C414	T7C	3101051010030	100pF	1011	R248	B5B	3001051040010	100kΩ
245	C415	T7C	3101051010030	100pF	1012	R250	B5B	3001051530000	15kΩ
246	C416	T7C	3101051010030	100pF	1013	R251	B5B	3001051010000	100Ω
247	C417	T8C	3101051010030	100pF	1014	R252	B5C	3001051040010	100kΩ
248	C418	T8C	3101051010030	100pF	1015	R255	B5D	3001064710000	470Ω
249	C419	B8D	3101051010030	100pF	1016	R257	B5C	3001053030010	30kΩ
250	C42	B8E	3101050100030	1pF	1017	R258	B5C	3001051030000	10kΩ
251	C420	B8D	3101051010030	100pF	1018	R259	B5C	3001051030000	10kΩ
252	C421	T2C	3101052210010	220pF	1019	R260	B5C	3001051010000	100Ω
253	C422	T2B	3101051040010	0.1uF	1020	R261	B5C	3001051030000	10kΩ
254	C423	T2C	3101052210010	220pF	1021	R262	B5B	3001051040010	100kΩ
255	C424	T2A	3101052210010	220pF	1022	R263	B5B	3001053030010	30kΩ
256	C425	T2A	3101052210010	220pF	1023	R264	B5D	3001051020010	1kΩ
257	C426	T2B	3101051010030	100pF	1024	R265	B4B	3001051820000	1.8kΩ
258	C427	T2C	3101051010030	100pF	1025	R266	B4B	3001054730000	47kΩ
259	C428	T2C	3101051010030	100pF	1026	R267	B5D	3001051020010	1kΩ
260	C429	T2C	3101051010030	100pF	1027	R268	B5B	3001051040010	100kΩ
261	C430	T2A	3101051010030	100pF	1028	R269	B4B	3001051040010	100kΩ
262	C431	T2A	3101051010030	100pF	1029	R270	B4B	3001054730000	47kΩ
263	C432	T2B	3101052210010	220pF	1030	R271	B4B	3001051010000	100Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
264	C433	T2B	3101052210010	220pF	1031	R272	B5B	3001054730000	47kΩ
265	C434	T2B	3101052210010	220pF	1032	R273	B4C	3001052430010	24kΩ
266	C435	B8D	3101051010030	100pF	1033	R274	B4C	3001051040010	100kΩ
267	C436	T2C	3101052210010	220pF	1034	R275	B4C	3001051040010	100kΩ
268	C437	T2B	3101052210010	220pF	1035	R276	B4C	3001051040010	100kΩ
269	C438	B7C	3101054740020	0.47uF	1036	R277	B4C	3001054730000	47kΩ
270	C439	B7C	3101054740020	0.47uF	1037	R278	B4C	3001051010000	100Ω
271	C440	B8D	3101051010030	100pF	1038	R279	B5D	3001053030010	30kΩ
272	C441	T8C	3101051010030	100pF	1039	R282	T6A	3001060000000	0Ω
273	C442	B8B	3101051010030	100pF	1040	R283	B5D	3001053030010	30kΩ
274	C443	B8B	3101051010030	100pF	1041	R284	B5D	3001051530000	15kΩ
275	C444	B8A	3101051010030	100pF	1042	R285	B5D	3001051530000	15kΩ
276	C445	B8B	3101051010030	100pF	1043	R286	B6B	3001054730000	47kΩ
277	C446	B8A	3101051010030	100pF	1044	R287	B6B	3001055620000	5.6kΩ
278	C447	B8B	3101051010030	100pF	1045	R288	B6A	3001054730000	47kΩ
279	C448	B8A	3101051010030	100pF	1046	R289	B6A	3001050000000	0Ω
280	C449	B8A	3101051010030	100pF	1047	R290	B5C	3001051020000	1kΩ
281	C450	B8A	3101051010030	100pF	1048	R291	B6B	3001051220000	1.2kΩ
282	C451	B8A	3101051010030	100pF	1049	R292	B6B	3001053300010	33Ω
283	C452	B8B	3101051010030	100pF	1050	R295	B5A	3001051020000	1kΩ
284	C453	B8B	3101051010030	100pF	1051	R296	B6B	3001051040000	100kΩ
285	C454	B8B	3101051010030	100pF	1052	R3	T7F	3001050000000	0Ω
286	C455	B8B	3101051010030	100pF	1053	R316	T5B	3001051030000	10kΩ
287	C456	B8B	3101051010030	100pF	1054	R319	T6B	3001053300010	33Ω
288	C46	B7G	3101052210010	220pF	1055	R320	B6B	3001053300010	33Ω
289	C463	B7C	3101051010030	100pF	1056	R322	T5B	3001051030000	10kΩ
290	C465	B8C	3101051010030	100pF	1057	R324	T7C	3001053300010	33Ω
291	C466	B8C	3101051010030	100pF	1058	R326	T6B	3001051030000	10kΩ
292	C467	B8C	3101051010030	100pF	1059	R327	B6C	3001053300010	33Ω
293	C468	B8C	3101051010030	100pF	1060	R337	T7C	3001051010000	100Ω
294	C469	B8A	3101051010030	100pF	1061	R338	T7B	3001051010000	100Ω
295	C473	T8D	3101051040010	0.1uF	1062	R339	T7C	3001051010000	100Ω
296	C474	T2C	3101054710010	470pF	1063	R346	B6C	3001051010000	100Ω
297	C476	T2C	3101054710010	470pF	1064	R347	T7D	3001053300010	33Ω
298	C477	T7C	3101051010030	100pF	1065	R348	T8B	3001050000000	0Ω
299	C478	T7C	3101051010030	100pF	1066	R349	T8B	3001053300010	33Ω
300	C479	T8C	3101051010030	100pF	1067	R350	T8B	3001053300010	33Ω
301	C480	T8C	3101051010030	100pF	1068	R351	T6B	3001051030000	10kΩ
302	C483	B2B	3101051040010	0.1uF	1069	R352	T2C	3001053300010	33Ω
303	C484	T2C	3101062250000	2.2uF	1070	R353	T6A	3001051030000	10kΩ
304	C485	B2C	3101051040010	0.1uF	1071	R354	T6C	3001053300010	33Ω
305	C49	B7G	3101060400010	4pF	1072	R355	B6C	3001053300010	33Ω
306	C5	B7G	3101052700000	27pF	1073	R356	B6A	3001050000000	0Ω
307	C50	T8G	3101054710010	470pF	1074	R357	T6C	3001053300010	33Ω
308	C500	B7C	3101053300000	33pF	1075	R358	B7B	3001051000000	10Ω
309	C501	B7C	3101053310020	330pF	1076	R360	B7B	3001051000000	10Ω
310	C502	B7C	3101053320010	3300pF	1077	R361	B7B	3001051530000	15kΩ
311	C503	B7C	3101051820000	1800pF	1078	R362	B7B	3001051530000	15kΩ
312	C506	B7C	3101051030020	0.01uF	1079	R363	T3A	3001050000000	0Ω
313	C507	B7C	3101051030020	0.01uF	1080	R364	T3A	3001050000000	0Ω
314	c508	B7C	3101071060010	10uF	1081	R365	T3C	3001051030000	10kΩ
315	C509	B7C	3101051040010	0.1uF	1082	R366	T3C	3001051030000	10kΩ
316	C510	B7C	3101051010030	100pF	1083	R367	T6D	3001053300010	33Ω
317	C511	B7B	3101071060010	10uF	1084	R368	T3C	3001051010000	100Ω
318	C512	B7B	3101051040010	0.1uF	1085	R369	T6D	3001053300010	33Ω
319	C513	B7C	3101051020010	1000pF	1086	R370	T3C	3001051010000	100Ω
320	C514	B7C	3101051040010	0.1uF	1087	R371	T6D	3001053300010	33Ω
321	C515	B7C	3101051040010	0.1uF	1088	R372	T6D	3001051030000	10kΩ
322	C516	B7B	3101051010030	100pF	1089	R373	T3C	3001053300010	33Ω
323	C517	B7B	3101051010030	100pF	1090	R374	T7B	3001050000000	0Ω
324	C518	B7B	3101051010030	100pF	1091	R375	T6C	3001050000000	0Ω
325	C519	B5C	3101071060010	10uF	1092	R376	T6C	3001053300010	33Ω
326	C52	B7G	3101052210010	220pF	1093	R377	T6C	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
327	C520	B6D	3101071060010	10uF	1094	R378	T6C	3001051020000	1kΩ
328	C53	T8G	3101051590000	1.5pF	1095	R379	T7C	3001051030000	10kΩ
329	C55	T7G	3101063690000	3.6pF	1096	R380	T6C	3001053300010	33Ω
330	C56	T7G	3101050600010	6pF	1097	R381	T6C	3001053300010	33Ω
331	C58	T7G	3101051030020	0.01uF	1098	R382	T6C	3001051020000	1kΩ
332	C59	T7G	3101051200020	12pF	1099	R383	B7C	3001051020010	1kΩ
333	C6	B7F	3101052210010	220pF	1100	R385	B7B	3001051030000	10kΩ
334	C60	T7G	3101051020010	1000pF	1101	R386	B6B	3001051000000	10Ω
335	C61	T7H	3101051200020	12pF	1102	R387	T7B	3001053300010	33Ω
336	C6100	T4I	3101061050020	1uF	1103	R388	T7C	3001051000000	10Ω
337	C6102	T6J	3101054710010	470pF	1104	R390	T7B	3001051030000	10kΩ
338	C6103	T4I	3101052210010	220pF	1105	R391	T8D	3001051030000	10kΩ
339	C6104	T5I	3101051040010	0.1uF	1106	R392	T7D	3001051030000	10kΩ
340	C6105	T5J	3101052210010	220pF	1107	R393	T7D	3001051030000	10kΩ
341	C6106	T4J	3101052210010	220pF	1108	R394	T7D	3001051030000	10kΩ
342	C6107	T5J	3101052210010	220pF	1109	R395	T7D	3001054720000	4.7kΩ
343	C6109	T4J	3101050600010	6pF	1110	R396	T7D	3001054720000	4.7kΩ
344	C6110	T4J	3101050100030	1pF	1111	R398	T3A	3001054720000	4.7kΩ
345	C6111	T5J	3101050600010	6pF	1112	R399	T6A	3001050000000	0Ω
346	C6112	T5J	3101050600010	6pF	1113	R4	T8E	3001061010000	100Ω
347	C6113	T5J	3101051040010	0.1uF	1114	R400	T7D	3001051030000	10kΩ
348	C6114	T5J	3101050500010	5pF	1115	R401	B7B	3001051520000	1.5kΩ
349	C6115	T6J	3001050000000	0Ω	1116	R402	T6D	3001053300010	33Ω
350	C6116	T6J	3101050600010	6pF	1117	R403	T6C	3001051010000	100Ω
351	C6117	T6J	3101050100030	1pF	1118	R404	T6C	3001051010000	100Ω
352	C6118	T4J	3101054710010	470pF	1119	R405	T2A	3001061030000	10kΩ
353	C6119	T4J	3101051590000	1.5pF	1120	R406	T6C	3001051010000	100Ω
354	C6120	T4J	3101050100030	1pF	1121	R407	T8C	3001060000000	0Ω
355	C6121	T4J	3101050100030	1pF	1122	R408	T7C	3001053300010	33Ω
356	C6122	T5J	3101052290010	2.2pF	1123	R409	T8C	3001051010000	100Ω
357	C6123	T5J	3001050000000	0Ω	1124	R410	T6C	3001051010000	100Ω
358	C6124	T6J	3101050100030	1pF	1125	R411	T6C	3001051010000	100Ω
359	C6126	T6J	3101050100030	1pF	1126	R412	T8C	3001053300010	33Ω
360	C6127	T6J	3101051590000	1.5pF	1127	R413	T6C	3001053300010	33Ω
361	C6128	T6J	3101054710010	470pF	1128	R414	T7A	3001051000000	10Ω
362	C6129	T5J	3101051800010	18pF	1129	R415	T7C	3001053300010	33Ω
363	C6130	T5J	3101051010030	100pF	1130	R416	T8C	3001051010000	100Ω
364	C6133	T5J	3101050400010	4pF	1131	R417	T2A	3001062030000	20kΩ
365	C6134	T4I	3101055600000	56pF	1132	R420	T8C	3001053300010	33Ω
366	C6135	T4I	3101055600000	56pF	1133	R421	T6C	3001051010000	100Ω
367	C6136	T4I	3101055600000	56pF	1134	R422	T7B	3001051030000	10kΩ
368	C6137	T4I	3101054700010	47pF	1135	R423	T7C	3001053300010	33Ω
369	C6138	T4I	3101054700010	47pF	1136	R424	T7C	3001053300010	33Ω
370	C6139	T6I	3101055600000	56pF	1137	R425	T7C	3001053300010	33Ω
371	C6140	T6I	3101055600000	56pF	1138	R426	T7A	3001050000000	0Ω
372	C6141	T6I	3101055600000	56pF	1139	R427	T2B	3001051030000	10kΩ
373	C6142	T6I	3101054700010	47pF	1140	R428	T2B	3001054720000	4.7kΩ
374	C6143	T6I	3101054700010	47pF	1141	R429	T6C	3001051030000	10kΩ
375	C6144	B4H	3101052210010	220pF	1142	R430	T8C	3001053300010	33Ω
376	C6145	B4I	3101061050020	1uF	1143	R431	T7C	3001053300010	33Ω
377	C6146	T4I	3101054710010	470pF	1144	R432	T7C	3001053300010	33Ω
378	C6147	T6I	3101051030020	0.01uF	1145	R433	T7C	3001053300010	33Ω
379	C6148	B7H	3101054710010	470pF	1146	R434	T8D	3001051010000	100Ω
380	C6149	B7H	3101061050020	1uF	1147	R435	T2C	3001054720000	4.7kΩ
381	C6151	B7H	3101054710010	470pF	1148	R436	T2B	3001054720000	4.7kΩ
382	C6152	B8I	3101051590000	1.5pF	1149	R437	T2A	3001054720000	4.7kΩ
383	C6153	B8I	3101050100030	1pF	1150	R438	B2A	3001051030000	10kΩ
384	C6154	B8I	3101050200010	2pF	1151	R439	B2A	3001051010000	100Ω
385	C6157	B8I	3101061010010	100pF	1152	R440	T6B	3001050000000	0Ω
386	C6158	B7H	3001060000000	0Ω	1153	R441	B6A	3001051030000	10kΩ
387	C6159	B8H	3101052210010	220pF	1154	R442	T6A	3001051030000	10kΩ
388	C6160	B8H	3101052700000	27pF	1155	R443	T2A	3001051030000	10kΩ
389	C6161	B8H	3101051500020	15pF	1156	R445	T2A	3001051010000	100Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
390	C6162	B8I	3101051500020	15pF	1157	R447	T2A	3001051030000	10kΩ
391	C6163	B8I	3101050700010	7pF	1158	R448	T2B	3001054720000	4.7kΩ
392	C6164	B8I	3101051500020	15pF	1159	R449	B2A	3001064730000	47kΩ
393	C6166	T7I	3101051010030	100pF	1160	R450	B2A	3001071020000	1kΩ
394	C6168	T7I	3101051040010	0.1uF	1161	R451	B2B	3001051030000	10kΩ
395	C6169	T7I	3101051040010	0.1uF	1162	R452	B2B	3001051030000	10kΩ
396	C6170	T7I	3101050900000	9pF	1163	R453	T5B	3001051030000	10kΩ
397	C6171	T7I	3101051040010	0.1uF	1164	R454	B2A	3001050000000	0Ω
398	C6172	B7I	3001050000000	0Ω	1165	R455	T2A	3001058230000	82kΩ
399	C6173	T7H	3101051040010	0.1uF	1166	R456	T8C	3001050000000	0Ω
400	C6175	T8H	3101051040010	0.1uF	1167	R457	T8C	3001050000000	0Ω
401	C6176	T8I	3001060000000	0Ω	1168	R458	T8C	3001051010000	100Ω
402	C6177	T8I	3101051500020	15pF	1169	R459	T8C	3001051010000	100Ω
403	C6178	T7I	3101051030020	0.01uF	1170	R460	T7D	3001051020010	1kΩ
404	C6179	T7H	3101051040010	0.1uF	1171	R461	B2C	3001051030000	10kΩ
405	C6180	T7H	3101051040010	0.1uF	1172	R462	B2B	3001051030000	10kΩ
406	C6185	T6J	3101061050020	1uF	1173	R463	B2B	3001051030000	10kΩ
407	C6190	T7I	3101061050020	1uF	1174	R464	B2B	3001051030000	10kΩ
408	C6193	B7H	3101061040010	0.1uF	1175	R465	B2C	3001051030000	10kΩ
409	C6194	T4J	3212106100000	10nH	1176	R466	B2C	3001051030000	10kΩ
410	C62	B8G	3101050100030	1pF	1177	R467	B2C	3001053300010	33Ω
411	C6246	T6J	3101050600010	6pF	1178	R468	T2B	3001054720000	4.7kΩ
412	C64	T7F	3110071040000	0.1uF	1179	R469	T2C	3001054720000	4.7kΩ
413	C66	T6F	3110071040000	0.1uF	1180	R470	T2B	3001054720000	4.7kΩ
414	C67	T7F	3110071040000	0.1uF	1181	R471	T2B	3001054720000	4.7kΩ
415	C68	T6F	3110071040000	0.1uF	1182	R472	T2B	3001054720000	4.7kΩ
416	C69	T7F	3110071040000	0.1uF	1183	R473	B2C	3001053300010	33Ω
417	C7	B7F	3101051040010	0.1uF	1184	R474	B2C	3001053300010	33Ω
418	C70	T6F	3110071040000	0.1uF	1185	R475	T2A	3001051030000	10kΩ
419	C702	T6H	3101051030020	0.01uF	1186	R476	T8C	3001054720000	4.7kΩ
420	C703	T6H	3101060300010	3pF	1187	R479	T6C	3001053300010	33Ω
421	C704	T6H	3101052210010	220pF	1188	R481	B5B	3001051030000	10kΩ
422	C705	T6H	3101051040010	0.1uF	1189	R482	B6B	3001051030000	10kΩ
423	C706	T6H	3101054710010	470pF	1190	R483	B6B	3001051030000	10kΩ
424	C707	T6H	3101051040010	0.1uF	1191	R484	T8C	3001054720000	4.7kΩ
425	C708	T6H	3101051040010	0.1uF	1192	R485	B7C	3001053300010	33Ω
426	C71	B7F	3101071050240	1uF	1193	R486	B7C	3001053300010	33Ω
427	C710	T6H	3101051020010	1000pF	1194	R487	T7A	3001053300010	33Ω
428	C712	T6H	3101051040010	0.1uF	1195	R488	T7B	3001054720000	4.7kΩ
429	C713	T6H	3101053920000	3900pF	1196	R489	T7A	3001053300010	33Ω
430	C714	T6G	3101051000020	10pF	1197	R490	T7A	3001053300010	33Ω
431	C715	T6H	3101064740000	0.47uF	1198	R491	B7C	3001053300010	33Ω
432	C716	T6I	3101061810060	180pF	1199	R492	T7A	3001053300010	33Ω
433	C717	B6H	3101054710010	470pF	1200	R493	T2A	3001061040010	100kΩ
434	C718	B6H	3101051050160	1uF	1201	R495	B7C	3001053300010	33Ω
435	C719	T5G	3101051050000	1uF	1202	R496	B2C	3001054720000	4.7kΩ
436	C72	T7F	3110071040000	0.1uF	1203	R497	B2B	3001051020000	1kΩ
437	C720	T6H	3101051040010	0.1uF	1204	R498	B7C	3001053300010	33Ω
438	C721	T6H	3101051010030	100pF	1205	R499	B7B	3001054720000	4.7kΩ
439	C722	T6H	3101051010030	100pF	1206	R5	T7E	3001050000000	0Ω
440	C723	B6H	3101051500020	15pF	1207	R500	B7C	3001051040000	100kΩ
441	C724	B6H	3101051800010	18pF	1208	R501	B7C	3001051030000	10kΩ
442	C725	B6H	3101051030020	0.01uF	1209	R502	B7C	3001051020000	1kΩ
443	C726	B6H	3101074750000	4.7uF	1210	R503	B7C	3001051020000	1kΩ
444	C727	B6H	3101054710010	470pF	1211	R504	B7C	3001051020000	1kΩ
445	C728	T5H	3101051020010	1000pF	1212	R505	B7C	3001050000000	0Ω
446	C729	T5H	3101051040010	0.1uF	1213	R506	B7C	3001051030000	10kΩ
447	C730	B6H	3101052200010	22pF	1214	R507	B7C	3001050000000	0Ω
448	C731	B6H	3101050600010	6pF	1215	R508	T2C	3001051030000	10kΩ
449	C732	B6H	3101052200010	22pF	1216	R509	B7B	3001051030000	10kΩ
450	C733	T5H	3101051040010	0.1uF	1217	R510	B7B	3001051030000	10kΩ
451	C734	B6H	3101053000010	30pF	1218	R511	B7B	3001054720000	4.7kΩ
452	C735	T5H	3101051040010	0.1uF	1219	R512	B7C	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
453	C736	T5H	3101051030020	0.01uF	1220	R513	B7C	3001051040000	100kΩ
454	C737	T5H	3101051040010	0.1uF	1221	R514	B7C	3001051040000	100kΩ
455	C738	T5H	3101051010030	100pF	1222	R515	T7A	3001053300010	33Ω
456	C739	T5H	3101051010030	100pF	1223	R516	T7A	3001053300010	33Ω
457	C74	T7F	3110071040000	0.1uF	1224	R517	T7A	3001053300010	33Ω
458	C740	T5H	3101051040010	0.1uF	1225	R518	T7A	3001053300010	33Ω
459	C741	T5H	3101051040010	0.1uF	1226	R519	T7B	3001053300010	33Ω
460	C742	T6H	3101061050020	1uF	1227	R520	T7B	3001053300010	33Ω
461	C744	B5H	3101051040010	0.1uF	1228	R521	T7B	3001053300010	33Ω
462	C745	B5H	3101053300000	33pF	1229	R522	T7A	3001053300010	33Ω
463	C746	T4H	3101054710010	470pF	1230	R523	B7B	3001053300010	33Ω
464	C748	B5H	3101061040010	0.1uF	1231	R524	B7B	3001053300010	33Ω
465	C749	T5G	3101053900000	39pF	1232	R525	B8B	3001053300010	33Ω
466	C75	T7F	3101051020010	1000pF	1233	R526	B7B	3001053300010	33Ω
467	C750	B5H	3101071050240	1uF	1234	R527	B7B	3001053300010	33Ω
468	C751	T6G	3101051000020	10pF	1235	R528	B7C	3001056830000	68kΩ
469	C752	T4I	3101074750000	4.7uF	1236	R529	B7C	3001053330000	33kΩ
470	C754	T4I	3101061050020	1uF	1237	R530	T8D	3001051030000	10kΩ
471	C755	T6I	3101074750000	4.7uF	1238	R531	T8D	3001051030000	10kΩ
472	C756	T6I	3101051040010	0.1uF	1239	R532	T8C	3001051030000	10kΩ
473	C76	T8F	3101051010030	100pF	1240	R533	B7B	3001053300010	33Ω
474	C763	T5H	3101051010030	100pF	1241	R534	B8C	3001051030000	10kΩ
475	C764	T5H	3101051010030	100pF	1242	R535	B8C	3001051030000	10kΩ
476	C765	T5H	3101051010030	100pF	1243	R536	T5B	3001050000000	0Ω
477	C766	T5H	3101051010030	100pF	1244	R538	T7C	3001051030000	10kΩ
478	C767	T5H	3101051010030	100pF	1245	R539	T7C	3001051030000	10kΩ
479	C769	T6G	3101051010030	100pF	1246	R540	T8D	3001051030000	10kΩ
480	C77	T8F	3101051010030	100pF	1247	R541	T8C	3001051030000	10kΩ
481	C78	T6F	3110071040000	0.1uF	1248	R543	T7C	3001051030000	10kΩ
482	C79	T7E	3101051020010	1000pF	1249	R544	B5B	3001050000000	0Ω
483	C8	T7E	3101054710010	470pF	1250	R545	B7D	3001053300010	33Ω
484	C80	T8F	3101051030020	0.01uF	1251	R546	B2C	3001061010000	100Ω
485	C801	B1F	3101081020010	1000pF	1252	R552	B7D	3001053300010	33Ω
486	C802	B1F	3101063320000	3300pF	1253	R553	B7D	3001053300010	33Ω
487	C803	B1F	3101063300000	33pF	1254	R554	T8D	3001051020010	1kΩ
488	C804	B1F	3101092260010	22uF	1255	R555	T8D	3001051030000	10kΩ
489	C807	T5E	3101081060010	10uF	1256	R556	T2C	3001051010000	100Ω
490	C808	B5E	3101062210000	220pF	1257	R557	T2B	3001051010000	100Ω
491	C809	B5E	3101062210000	220pF	1258	R558	B2C	3001053330010	33kΩ
492	C811	B6E	3101064710000	470pF	1259	R559	B2B	3001053330010	33kΩ
493	C814	B5E	3101061800000	18pF	1260	R560	B2B	3001053330010	33kΩ
494	C816	T3H	3101080200010	2pF	1261	R561	B2C	3001053330010	33kΩ
495	C817	T2H	3101064710000	470pF	1262	R562	B2C	3001053330010	33kΩ
496	C818	B6E	3101061500010	15pF	1263	R563	T2B	3001051030000	10kΩ
497	C82	T7F	3101051020010	1000pF	1264	R564	B7C	3001050000000	0Ω
498	C820	T3F	3101372200000	22pF	1265	R565	B7C	3001050000000	0Ω
499	C822	B6E	3101062210000	220pF	1266	R566	B7C	3001050000000	0Ω
500	C823	T2F	3101081000010	10pF	1267	R567	B7C	3001050000000	0Ω
501	C825	B2F	3101074700050	47pF	1268	R569	T2C	3001051030000	10kΩ
502	C826	T5E	3210306220000	22nH	1269	R570	T2C	3001064720000	4.7kΩ
503	C827	T3I	3101084710010	470pF	1270	R571	T6C	3001051030000	10kΩ
504	C829	B4E	3101061040010	0.1uF	1271	R573	T2C	3001054720000	4.7kΩ
505	C83	T8F	3101051040010	0.1uF	1272	R574	T2C	3001064720000	4.7kΩ
506	C830	T3H	3101080600010	6pF	1273	R575	T2B	3001053330010	33kΩ
507	C832	T2F	3101080100010	1pF	1274	R576	T2C	3001053330010	33kΩ
508	C833	T3F	3101080400010	4pF	1275	R577	T2B	3001061010000	100Ω
509	C8330	T3F	3101372000000	20pF	1276	R578	B2B	3001061010000	100Ω
510	C835	T1H	3101080200010	2pF	1277	R579	B2B	3001061010000	100Ω
511	C836	T2H	3101080200010	2pF	1278	R580	B2C	3001061010000	100Ω
512	C837	T2H	3101080500010	5pF	1279	R581	B2C	3001061010000	100Ω
513	C838	T3I	3101080600010	6pF	1280	R6	T7F	3001050000000	0Ω
514	C839	T5F	3001070000000	0Ω	1281	R6004	T5B	3001063320000	3.3kΩ
515	C84	T7F	3110071040000	0.1uF	1282	R6100	T4I	3001055110000	510Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
516	C840	T5F	3101074700050	47pF	1283	R6101	T6I	3001056810000	680Ω
517	C841	T3F	3101080800010	8pF	1284	R6102	T5J	3001071000000	10Ω
518	C843	T5E	3101064710000	470pF	1285	R6103	T5I	3001052730010	27kΩ
519	C845	B4E	3101062210000	220pF	1286	R6104	T5J	3001052720000	2.7kΩ
520	C847	T2I	3101061510050	150pF	1287	R6105	T5J	3001055620000	5.6kΩ
521	C848	T3J	3101061510050	150pF	1288	R6106	T4J	3001066810000	680Ω
522	C85	T8E	3101051040010	0.1uF	1289	R6107	T5J	3001051220000	1.2kΩ
523	C850	B2I	3101084710010	470pF	1290	R6109	T4J	3001063910000	390Ω
524	C851	T2I	3101080200010	2pF	1291	R6110	T5J	3001051220000	1.2kΩ
525	C852	T2H	3101061010010	100pF	1292	R6111	T4I	3001051040000	100kΩ
526	C853	T5F	3101062210000	220pF	1293	R6112	T6I	3001051040000	100kΩ
527	C854	T5F	3101061040010	0.1uF	1294	R6113	B4H	3001052740000	270kΩ
528	C856	T1F	3101080800010	8pF	1295	R6114	B4H	3001053300010	33Ω
529	C857	T3J	3101062200010	22pF	1296	R6115	B4H	3001051040000	100kΩ
530	C859	T5F	3101071500010	15pF	1297	R6116	B4H	3001060000000	0Ω
531	C86	T7F	3101051040010	0.1uF	1298	R6117	B7H	3001068200000	82Ω
532	C861	T2I	3101066800000	68pF	1299	R6118	B7H	3001053320000	3.3kΩ
533	C862	T3I	3101061590010	1.5pF	1300	R6119	B8H	3001051220000	1.2kΩ
534	C863	T6E	3101064720000	4700pF	1301	R6120	T7I	3001055100010	51Ω
535	C864	T6E	3101061800000	18pF	1302	R6121	B7H	3001055690000	5.6Ω
536	C865	T6F	3101062400010	24pF	1303	R6122	B7H	3001051220000	1.2kΩ
537	C866	T6F	3101061210020	120pF	1304	R6123	T4J	3001050000000	0Ω
538	C868	B4H	3101061040010	0.1uF	1305	R6124	B7I	3001058210000	820Ω
539	C869	T5F	3101071500010	15pF	1306	R6125	B7I	3001058210000	820Ω
540	C87	T7E	3101051040010	0.1uF	1307	R6126	B7H	3001068200000	82Ω
541	C872	T6F	3101066800000	68pF	1308	R6127	T4I	3001051030000	10kΩ
542	C875	B4H	3101051510000	150pF	1309	R6129	B7I	3001063310010	330Ω
543	C877	T6E	3101062210000	220pF	1310	R6130	T7I	3001055120030	5.1KΩ
544	C878	T6F	3101062210000	220pF	1311	R6131	T7I	3001051220000	1.2kΩ
545	C88	T7F	3110071040000	0.1uF	1312	R6132	T7I	3001055100010	51Ω
546	C880	T6E	3101061830000	0.018uF	1313	R6133	T7H	3001053310010	330Ω
547	C883	B4I	3101052210010	220pF	1314	R6134	T7H	3001053030000	30kΩ
548	C885	B2F	3101082700010	27pF	1315	R6135	T7H	3001054720000	4.7kΩ
549	C887	B5F	3101062210000	220pF	1316	R6136	T7H	3001052030000	20kΩ
550	C888	B2F	3101063300000	33pF	1317	R6137	T7I	3001053030000	30kΩ
551	C889	B2F	3101062200010	22pF	1318	R6138	B8I	3001060000000	0Ω
552	C89	T7F	3101051040010	0.1uF	1319	R6139	T8H	3001055630000	56kΩ
553	C890	B3I	3101052210010	220pF	1320	R6140	T4I	3001060000000	0Ω
554	C891	T2I	3101051210000	120pF	1321	R701	T5I	3001055100010	51Ω
555	C892	B5F	3101062210000	220pF	1322	R703	T6G	3001052220010	2.2kΩ
556	C893	T1H	3101374710000	470pF	1323	R704	T6H	3001055610010	560Ω
557	C894	B4H	3101051830020	0.018uF	1324	R705	T6H	3001051030000	10kΩ
558	C895	B4I	3101052210010	220pF	1325	R707	B6H	3001051810010	180Ω
559	C896	B3G	3101052210010	220pF	1326	R708	B6H	3001054720000	4.7kΩ
560	C897	B3G	3101052210010	220pF	1327	R709	B6H	3001061030010	10kΩ
561	C898	B5C	3101052210010	220pF	1328	R710	B6H	3001068220000	8.2kΩ
562	C899	T3J	3101051210000	120pF	1329	R711	T5G	3001053300010	33Ω
563	C9	T8G	3101050100030	1pF	1330	R712	B6H	3001052710010	270Ω
564	C90	T7F	3101051010030	100pF	1331	R713	T5H	3001051040000	100kΩ
565	C900	T5C	3101061050020	1uF	1332	R714	B5H	3001051820000	1.8kΩ
566	C901	T5C	3101061050020	1uF	1333	R715	T5G	3001053300010	33Ω
567	C902	T2E	3101062200010	22pF	1334	R716	B5H	3001055620000	5.6kΩ
568	C905	T2A	3101061050020	1uF	1335	R717	T5G	3001053300010	33Ω
569	C906	T2A	3101061050020	1uF	1336	R718	B5H	3001055110000	510Ω
570	C907	T4B	3101051040010	0.1uF	1337	R719	T5H	3001053300010	33Ω
571	C908	T5B	3101061050020	1uF	1338	R720	T5H	3001053300010	33Ω
572	C909	B2F	3101063310010	330pF	1339	R721	T5H	3001053300010	33Ω
573	C91	T6F	3110071040000	0.1uF	1340	R724	T5I	3001060000000	0Ω
574	C910	B4I	3101051020010	1000pF	1341	R725	T5G	3001053300010	33Ω
575	C911	T3A	3101051040010	0.1uF	1342	R727	T4H	3001064730000	47kΩ
576	C912	T5C	3101072250100	2.2uF	1343	R728	T4H	3001064730000	47kΩ
577	C913	B2F	3101063300000	33pF	1344	R802	B5E	3001061230000	12kΩ
578	C914	T4D	3101092260010	22uF	1345	R803	B5E	3001062210000	220Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
579	C915	T4C	3101082260020	22uF	1346	R808	B5E	3001061000000	10Ω
580	C916	T2E	3101063320000	3300pF	1347	R809	B6E	3001061210000	120Ω
581	C917	T5D	3101071060010	10uF	1348	R810	B6E	3001068200000	82Ω
582	C918	T5D	3101052200010	22pF	1349	R811	B5E	3001061830010	18kΩ
583	C919	T5C	3101072260000	22uF	1350	R813	T4F	3001084790000	4.7Ω
584	C920	T4C	3101061030010	0.01uF	1351	R814	B6E	3001068200000	82Ω
585	C921	T5C	3101051040010	0.1uF	1352	R815	T1I	3001082730000	27kΩ
586	C922	T5C	3101055600000	56pF	1353	R816	T2J	3001072210000	220Ω
587	C923	B4D	3101061050020	1uF	1354	R817	T2J	3001072210000	220Ω
588	C924	B4D	3101061050020	1uF	1355	R818	T4F	3001084790000	4.7Ω
589	C925	B4D	3101061050020	1uF	1356	R819	T3I	3001078200000	82Ω
590	C926	B7D	3101071060010	10uF	1357	R821	B2I	3001113300000	33Ω
591	C927	T4D	3101061040010	0.1uF	1358	R822	T3J	3001060000000	0Ω
592	C928	T5H	3101081060010	10uF	1359	R823	T2J	3001061010000	100Ω
593	C93	T7F	3101051010030	100pF	1360	R824	T5E	3101064700000	47pF
594	C930	B1F	3101061830000	0.018uF	1361	R825	T3I	3001113300000	33Ω
595	C931	T1E	3101062700010	27pF	1362	R826	T6F	3001060100000	1Ω
596	C932	T5C	3101062250000	2.2uF	1363	R827	T6E	3001062710000	270Ω
597	C933	B2A	3101092260010	22uF	1364	R828	T6F	3001060100000	1Ω
598	C934	B4D	3101062250000	2.2uF	1365	R829	T6F	3001068200000	82Ω
599	C935	B5D	3101061040010	0.1uF	1366	R830	B5E	3001074700000	47Ω
600	C936	T5D	3101051010030	100pF	1367	R831	B4H	3001051020000	1kΩ
601	C938	T4D	3101092260010	22uF	1368	R835	T6E	3001068200000	82Ω
602	C94	T7F	3110071040000	0.1uF	1369	R837	B4I	3001050000000	0Ω
603	C940	B1F	3101066800000	68pF	1370	R838	B4I	3001053330000	33kΩ
604	C942	T4B	3101053310020	330pF	1371	R839	B4H	3001053320000	3.3kΩ
605	C943	B1F	3101062700010	27pF	1372	R840	T3I	3101060700020	7pF
606	C944	B2B	3101051020010	1000pF	1373	R841	B4H	3001053330000	33kΩ
607	C945	B2A	3101054710010	470pF	1374	R842	B4I	3001051230000	12kΩ
608	C946	T5D	3101061050020	1uF	1375	R843	T6F	3001069120000	9.1kΩ
609	C947	T5B	3101051040010	0.1uF	1376	R844	T6F	3001064720000	4.7kΩ
610	C948	T4B	3101051040010	0.1uF	1377	R845	T6E	3001062030000	20kΩ
611	C949	B2G	3101058200000	82pF	1378	R846	T6E	3001061530010	15kΩ
612	C95	T7F	3101051030020	0.01uF	1379	R847	B4H	3001054730000	47kΩ
613	C950	T2D	3101051040010	0.1uF	1380	R849	B4I	3001052220010	2.2kΩ
614	C951	T4C	3110992270000	220uF	1381	R853	T2I	3001064710000	470Ω
615	C952	T3C	3101061030010	0.01uF	1382	R854	B4I	3001055630000	56kΩ
616	C953	B3G	3001051830000	18kΩ	1383	R856	B4F	3001085100000	51Ω
617	C955	T3D	3101051040010	0.1uF	1384	R857	B4I	3001050000000	0Ω
618	C956	T3D	3101081060010	10uF	1385	R858	B5F	3001069120000	9.1kΩ
619	C957	T3D	3101081060010	10uF	1386	R859	B5F	3001061020010	1kΩ
620	C958	T3D	3101051040010	0.1uF	1387	R861	T4F	3001084790000	4.7Ω
621	C959	B2G	3101061040010	0.1uF	1388	R862	B6E	3001065600000	56Ω
622	C96	T7F	3101051020010	1000pF	1389	R863	B2I	3001050000000	0Ω
623	C961	B3A	3101061040010	0.1uF	1390	R864	B3G	3001054740010	470kΩ
624	C962	B6D	3101051050000	1uF	1391	R865	B4H	3001053930000	39kΩ
625	C963	B7D	3101061040010	0.1uF	1392	R866	B4I	3001052220010	2.2kΩ
626	C965	B7D	3101062250000	2.2uF	1393	R867	B4G	3001058220000	8.2kΩ
627	C966	T5B	3101061050020	1uF	1394	R869	B4H	3001051020000	1kΩ
628	C968	B3B	3101051040010	0.1uF	1395	R870	B4H	3001051230000	12kΩ
629	C969	B3B	3101051040010	0.1uF	1396	R872	B4H	3001051840000	180kΩ
630	C97	T8F	3101051030020	0.01uF	1397	R874	B4I	3001051020000	1kΩ
631	C978	T7D	3101051040010	0.1uF	1398	R875	B4I	3001053330000	33kΩ
632	C979	T6D	3101051040010	0.1uF	1399	R876	B3G	3001055630000	56kΩ
633	C98	T8F	3101051040010	0.1uF	1400	R877	B5E	3001054730000	47kΩ
634	C980	T2D	3101081060010	10uF	1401	R880	B5E	3001074720010	4.7kΩ
635	C981	T4D	3101081060010	10uF	1402	R881	B5E	3001074720010	4.7kΩ
636	C982	T7C	3101051040010	0.1uF	1403	R882	B4I	3001052240000	220kΩ
637	C983	T7D	3101051050000	1uF	1404	R883	B3G	3001055630000	56kΩ
638	C984	T7D	3101051020010	1000pF	1405	R884	B3G	3001051030000	10kΩ
639	C99	T8F	3101052710000	270pF	1406	R885	B3G	3001051030000	10kΩ
640	C997	T7C	3101062240030	0.22uF	1407	R886	B3G	3001052240000	220kΩ
641	D100	T7F	3303030800020	Switching diode	1408	R887	B4I	3001058210000	820Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
642	D101	B7E	3304010100220	Varactor	1409	R889	B5C	3001050000000	0Ω
643	D102	B7E	3304010100220	Varactor	1410	R890	B4H	3001053320000	3.3kΩ
644	D103	B3A	3303240000000	Switching diode	1411	R891	B3G	3001053320000	3.3kΩ
645	D105	B7F	3304010100220	Varactor	1412	R892	B3I	3001058230000	82kΩ
646	D106	B7F	3304010100220	Varactor	1413	R894	B4I	3001050000000	0Ω
647	D107	B7G	3304010100220	Varactor	1414	R895	B4H	3001055630000	56kΩ
648	D108	B6G	3304010100220	Varactor	1415	R897	B2G	3001054740010	470kΩ
649	D109	B7G	3304010100220	Varactor	1416	R898	B2G	3001054740010	470kΩ
650	D110	B6G	3304010100220	Varactor	1417	R899	B2G	3001054740010	470kΩ
651	D111	B7E	3304010100220	Varactor	1418	R902	B3G	3001050000000	0Ω
652	D112	B7E	3304010100220	Varactor	1419	R904	B5C	3001050000000	0Ω
653	D113	B7F	3304010100220	Varactor	1420	R905	B5C	3001053330000	33kΩ
654	D116	B7E	3304010100220	Varactor	1421	R906	T4H	3001064730000	47kΩ
655	D117	B7E	3304010100220	Varactor	1422	R908	T4H	3001054720000	4.7kΩ
656	D121	B7G	3304010100220	Varactor	1423	R910	T6D	3001054720000	4.7kΩ
657	D122	B7G	3304010100220	Varactor	1424	R911	T5B	3001061030000	10kΩ
658	D125	B7G	3304010100220	Varactor	1425	R913	T6D	3001054720000	4.7kΩ
659	D126	B7G	3304010100220	Varactor	1426	R917	T5D	3001053340010	330kΩ
660	D127	T7E	3303030100010	Switching diode	1427	R919	T5D	3001051540000	150kΩ
661	D128	B4I	3303030100010	Switching diode	1428	R924	B4D	3001061020010	1kΩ
662	D129	B5C	3303030800020	Switching diode	1429	R925	T5D	3001064720000	4.7kΩ
663	D230	B4C	3310240000000	ESD protection diode	1430	R929	B2A	3001051010000	100Ω
664	D231	B4C	3310240000000	ESD protection diode	1431	R930	B3A	3001051030000	10kΩ
665	D232	B7D	3310240000000	ESD protection diode	1432	R931	B3A	3001054730000	47kΩ
666	D233	T2B	3310240000000	ESD protection diode	1433	R932	B3A	3001052030000	20kΩ
667	D234	T5C	3310240200000	ESD protection diode	1434	R934	B3A	3001055130010	51kΩ
668	D236	T6C	3310240200000	ESD protection diode	1435	R937	B3B	3001054720000	4.7kΩ
669	D237	T4B	3310990000090	ESD protection diode	1436	R938	B3B	3001051030000	10kΩ
670	D238	T2C	3310240000000	ESD protection diode	1437	R940	B3B	3001052230010	22kΩ
671	D239	T5B	3310240200000	ESD protection diode	1438	R941	B3B	3001051020010	1kΩ
672	D240	T2A	3310240000000	ESD protection diode	1439	R942	B3B	3001054720000	4.7kΩ
673	D402	T2C	3310240000000	ESD protection diode	1440	R943	B2A	3001064730000	47kΩ
674	D403	T2A	3310240000000	ESD protection diode	1441	R944	B3B	3001052230010	22kΩ
675	D404	T2B	3310240000000	ESD protection diode	1442	R945	B3B	3001051030000	10kΩ
676	D405	T2B	3310240000000	ESD protection diode	1443	R946	B3A	3001071020000	1kΩ
677	D406	T2B	3310240000000	ESD protection diode	1444	R947	B3B	3001051020010	1kΩ
678	D407	T8B	3399040600010	ESD protection diode	1445	R948	B2A	3001051010000	100Ω
679	D408	B8C	3399040600010	ESD protection diode	1446	R949	B2A	3001054730000	47kΩ
680	D409	T2C	3310240000040	ESD protection diode	1447	R950	T3C	3001051030000	10kΩ
681	D410	B2B	3310240000040	ESD protection diode	1448	R951	B3A	3001053330000	33kΩ
682	D450	T2C	3699037000010	USB protection IC	1449	R952	B3A	3001053330000	33kΩ
683	D6100	T4J	3399030000010	PIN diode	1450	R953	B3D	3001061000000	10Ω
684	D6101	T4J	3304010100890	Varactor	1451	R954	B6D	3001061020010	1kΩ
685	D6102	T4J	3304010100890	Varactor	1452	R955	B2A	3001052030000	20kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
686	D6103	T6J	3304010100890	Varactor	1453	R956	B2A	3001051840000	180kΩ
687	D6104	T6J	3304010100890	Varactor	1454	R957	B2A	3001051020010	1kΩ
688	D6105	T5J	3399990004910	Limiter diode	1455	R958	B3D	3001066810000	680Ω
689	D6106	B7J	3699019000000	Mixer IC	1456	R959	B2A	3001056830000	68kΩ
690	D6204	B3A	3303030100010	Switching diode	1457	R961	B3D	3001083310010	330Ω
691	D701	B6G	3304010100220	Varactor	1458	R962	T3C	3001060000000	0Ω
692	D702	B5H	3304010100180	Varactor	1459	R963	T3C	3001060000000	0Ω
693	D801	T1H	3303990000020	Switching diode	1460	R964	T3C	3001052220010	2.2kΩ
694	D802	T2I	3303990000020	Switching diode	1461	R965	T3C	3001060000000	0Ω
695	D803	T3J	3303030300000	Schottky diode	1462	R966	B2D	3001161510010	150Ω
696	D804	T2I	3303030300000	Schottky diode	1463	R968	T2C	3001052220000	2.2kΩ
697	D805	B4H	3302030500030	Zener diode	1464	R969	T2C	3001064730000	47kΩ
698	D900	T2D	3399100000010	TVS diode	1465	R970	T2C	3001061020010	1kΩ
699	D902	T4C	3301100300030	Rectifier diode	1466	R971	T3C	3099052741000	2.74kΩ
700	D910	B2A	3302030500010	Zener diode	1467	R972	T3C	3001062220000	2.2kΩ
701	D911	B2A	3302030500010	Zener diode	1468	R974	B3A	3001062720000	2.7kΩ
702	D914	B3A	3303240000000	Switching diode	1469	R975	B3A	3001052030000	20kΩ
703	D915	T3C	3303010500290	Switching diode	1470	R976	T7D	3001050000000	0Ω
704	D916	T2A	3303010500090	Switching diode	1471	R978	B3A	3001052720000	2.7kΩ
705	D917	T3C	3302030500030	Zener diode	1472	R979	T6C	3001051030000	10kΩ
706	D918	T3C	3302030500030	Zener diode	1473	R980	T6C	3001051040000	100kΩ
707	D919	T2A	3303010500090	Switching diode	1474	R981	B3A	3001051030000	10kΩ
708	D920	B2B	3303240000000	Switching diode	1475	R982	T3C	3001051040000	100kΩ
709	D921	T2A	3302030500030	Zener diode	1476	R983	T6D	3001050000000	0Ω
710	D922	T7C	3303010500090	Switching diode	1477	R984	B3A	3001052210000	220Ω
711	F900	B2B	4002000000340	Fuse	1478	R985	T6C	3001050000000	0Ω
712	J400	T8C	5201020200030	Board-to-board connector	1479	R986	T6D	3001050000000	0Ω
713	J404	B8C	5206040200010	FFC connector	1480	R987	T7C	3001050000000	0Ω
714	L1	B7F	3213212332000	3.3uH	1481	RN230	B6C	3005051010010	100Ω
715	L103	B7E	3217607471000	470nH	1482	RN500	B7B	3005051010010	100Ω
716	L105	B7E	3237199080000	Air-core coil 8nH	1483	RT804	B3G	3003061040000	100kΩ
717	L106	B7E	3214307270010	27nH	1484	S1		6202720000010	PA heat sink pad
718	L107	B7E	3217607471000	470nH	1485	T6100	B7J	3259999999080	Transformer
719	L108	B6E	3217607471000	470nH	1486	T6101	B8J	3259999999080	Transformer
720	L110	B7F	3217607471000	470nH	1487	U100	T8F	3604019000000	PLL IC
721	L112	B6E	3217607471000	470nH	1488	U101	T7F	3616059000000	Switch IC
722	L114	B7F	3237199080000	Air-core coil 8nH	1489	U102	T7E	3616059000000	Switch IC
723	L115	B7F	3214307270010	27nH	1490	U201	B5B	3602017000030	Audio amplification IC
724	L116	B7E	3217607471000	470nH	1491	U231	B6C	3613010000000	Baseband IC
725	L117	B7G	3217607471000	470nH	1492	U232	T5B	3612024000020	Memory
726	L118	B8G	3217607471000	470nH	1493	U233	T6A	3612016000000	Memory
727	L121	B7F	3217607471000	470nH	1494	U235	B5C	3605010000020	Operational amplifier
728	L122	T8G	3210306150000	15nH	1495	U236	B4C	3605010000020	Operational amplifier
729	L123	T7G	3210306150000	15nH	1496	U237	B6B	3616010000000	Switch IC
730	L124	B7G	3237199120000	Air-core coil 12.5nH	1497	U238	B6A	3605008005070	Operational amplifier
731	L126	B7G	3214307390000	39nH	1498	U302	T6B	3610010000010	MCU
732	L127	B7G	3217607471000	470nH	1450	U326	T3B	3625999000060	GPS module
733	L128	T8G	3210306150000	15nH	1500	U327	T6D	3607010000400	Logic IC
734	L129	B6G	3217607471000	470nH	1501	U328	B2C	3607010000400	Logic IC
735	L131	T7E	3221506601000	Ferrite bead	1502	U401	B2B	3616010000150	Switch IC
736	L132	T7E	3210306270000	27nH	1503	U500	B7C	3606010000010	D/A conversion IC
737	L133	B6G	3217607471000	470nH	1504	U6000	B4H	3605002057090	Operational amplifier
738	L134	B7G	3217607471000	470nH	1505	U701	T5H	3603999000000	IF IC
739	L135	T7E	3210306270000	27nH	1506	U702	T4I	3608006000000	Power management IC
740	L136	T6E	3210306150000	15nH	1507	U703	T4H	3608015000060	Power management IC
741	L137	B7G	3237199120000	Air-core coil	1508	U801	B4H	3605026000020	Operational

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
				12.5nH					amplifier
742	L138	T7E	3210306270000	27nH	1509	U802	B4H	3605002054590	Operational amplifier
743	L139	B7G	3210107330000	33nH	1510	U804	B3G	3605008005070	Operational amplifier
744	L140	B7G	3217607471000	470nH	1511	U900	T5C	3608015000180	Power management IC
745	L147	T7B	3210406471000	470nH	1512	U901	T2A	3608015000180	Power management IC
746	L151	T7B	3210406471000	470nH	1513	U902	T5C	3608010000350	Power management IC
747	L152	B7F	3221506601000	Ferrite bead	1514	U903	T5B	3608015000170	Power management IC
748	L154	T8F	3213306561000	0.56uH	1515	U905	B4D	3608015000060	Power management IC
749	L156	T7F	3213212332000	3.3uH	1516	U907	T6D	3626999000020	Reset IC
750	L162	T7G	3210306270000	27nH	1517	U909	B4D	3608015000180	Power management IC
751	L166	T7G	3210306270000	27nH	1518	U910	T7C	3626015000010	Reset IC
752	L167	B8G	3210306270000	27nH	1519	U914	T3C	3605008005070	Operational amplifier
753	L168	B8E	3210306270000	27nH	1520	U915	B7D	3608015000060	Power management IC
754	L169	T8G	3210306270000	27nH	1521	U917	B2A	3609006003050	Reset IC
755	L171	T7G	3210306180000	18nH	1522	U918	B7D	3608015000210	Power management IC
756	L173	T7G	3210306150000	15nH	1523	U919	T5D	3608010006230	Power management IC
757	L2	T7E	3210306150000	15nH	1524	W321	T3A	4411100002000	IPX RF connector
758	L232	B4C	3221506300000	Ferrite bead	1525	X100	T8E	3701019250030	TCXO
759	L233	B5C	3211506101000	Ferrite bead	1526	X302	T7B	3701019250040	TCXO
760	L234	B5D	3211506101000	Ferrite bead	1527	X375	T7B	3701327610060	Crystal
761	L235	B5D	3211506101000	Ferrite bead	1528	Z6100	T8I	3802733540030	Crystal filter
762	L321	T3A	3212106390000	39nH	1529	/	/	3217699153000	15uH
763	L322	T3A	3221506300000	Ferrite bead	1530	/	/	3303010500290	Switching diode
764	L4	B8F	3217607471000	470nH	1531	/	/	3608015000210	Power management IC
765	L401	B7A	3221506300000	Ferrite bead	1532	/	/	41MD7801000L0	PCB main board
766	L402	B7A	3221506300000	Ferrite bead	1533	/	/	1616100001420	Built-in software
767	L403	B7A	3221506300000	Ferrite bead	1534	/	/	9830000000001	Voice encoding/decoding software

12.4 Main Board (45 W)

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	B	/	6203077000000	VCO shielding mask	776	L406	B7A	3221506300000	Ferrite bead
2	C	/	6202010000010	APC shielding mask	777	L407	B7B	3221506300000	Ferrite bead
3	C1	T7E	3101051020010	1000pF	778	L408	B7B	3221506300000	Ferrite bead
4	C10	B7G	3101060700020	7pF	779	L409	B7B	3221506300000	Ferrite bead
5	C100	T7G	3101052210010	220pF	780	L410	B7B	3221506300000	Ferrite bead
6	C1000	T8F	3101052210010	220pF	781	L411	B7B	3221506300000	Ferrite bead
7	C1001	B7F	3101054710010	470pF	782	L412	B7B	3221506300000	Ferrite bead
8	C1002	T8F	3101051020010	1000pF	783	L414	B8C	3001050000000	0Ω
9	C1003	B7F	3101054710010	470pF	784	L415	B8C	3001050000000	0Ω
10	C1004	T8F	3101063300000	33pF	785	L417	T2C	3001050000000	0Ω
11	C1005	T6F	3110071040000	0.1uF	786	L418	T2C	3001050000000	0Ω
12	C1006	B8F	3101051040010	0.1uF	787	L5	B7E	3217607471000	470nH
13	C1007	T6F	3110071040000	0.1uF	788	L6	T8F	3221506601000	Ferrite bead
14	C101	T7E	3101051590000	1.5pF	789	L6100	T6I	3211506101000	Ferrite bead
15	C1010	T7F	3101051020010	1000pF	790	L6101	T4I	3211506101000	Ferrite bead

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
16	C1015	B7F	3101054710010	470pF	791	L6102	T5I	3210306221000	220nH
17	C1016	T7F	3101061040010	0.1uF	792	L6103	T6J	3212106100000	10nH
18	C102	T7G	3101061590010	1.5pF	793	L6110	T5J	3210306150000	15nH
19	C11	T7E	3101050400010	4pF	794	L6114	B4I	3211506101000	Ferrite bead
20	C12	B7G	3101050500030	5pF	795	L6115	B7H	3211506101000	Ferrite bead
21	C121	T7F	3101051010030	100pF	796	L6116	B8H	3210306180000	18nH
22	C122	T7F	3101065630000	0.056uF	797	L6117	B8I	3210306220000	22nH
23	C123	T7F	3101061040010	0.1uF	798	L6118	B8I	3210306180000	18nH
24	C13	B7E	3101053690030	3.6pF	799	L6119	B8I	3210306220000	22nH
25	C132	T7F	3101061040010	0.1uF	800	L6120	T7I	3210306470000	47nH
26	C1320	T8F	3101051010030	100pF	801	L6121	T7I	3211506101000	Ferrite bead
27	C136	B7E	3101074750000	4.7uF	802	L6122	T7I	3101061040010	0.1uF
28	C14	T7E	3101051200020	12pF	803	L6123	T7H	3213306821000	0.82uH
29	C141	B7F	3101051040010	0.1uF	804	L6125	T8I	3210406331000	330nH
30	C142	B7F	3101054710010	470pF	805	L6126	T8H	3101061040010	0.1uF
31	C147	B8F	3101052210010	220pF	806	L6216	T6J	3101052210010	220pF
32	C148	B7H	3101054710010	470pF	807	L6217	T6J	3101052210010	220pF
33	C149	B7H	3101051040010	0.1uF	808	L7	T7G	3221506601000	Ferrite bead
34	C15	T7E	3101051000020	10pF	809	L701	T6H	3221506601000	Ferrite bead
35	C150	B8G	3101052210010	220pF	810	L702	T6H	3221506601000	Ferrite bead
36	C151	B7F	3101060900010	9pF	811	L703	T6H	3221506601000	Ferrite bead
37	C152	B7E	3101054090010	4pF	812	L704	T5I	3213212103000	10uH
38	C153	B7F	3101052700000	27pF	813	L705	T5I	3213212103000	10uH
39	C154	B7G	3101053900000	39pF	814	L706	T4H	3221506601000	Ferrite bead
40	C155	B7G	3101061200000	12pF	815	L707	T5I	3221506601000	Ferrite bead
41	C156	B6E	3101052210010	220pF	816	L708	B6H	3217107221010	220nH
42	C157	B7F	3101055600000	56pF	817	L709	T5G	3221506601000	Ferrite bead
43	C158	B7F	3101051800070	18pF	818	L710	T5H	3221506601000	Ferrite bead
44	C159	B7F	3101054090010	4pF	819	L711	T5H	3221506601000	Ferrite bead
45	C16	T6E	3101050600010	6pF	820	L712	T6I	3221506601000	Ferrite bead
46	C160	B6G	3101052210010	220pF	821	L713	T5G	3213306561000	0.56uH
47	C161	B7G	3101055600000	56pF	822	L714	T5H	3221506601000	Ferrite bead
48	C162	B7G	3101051800070	18pF	823	L715	B5H	3213212332000	3.3uH
49	C163	B8F	3101051040010	0.1uF	824	L716	T6H	3210406331000	330nH
50	C164	B7G	3101050500030	5pF	825	L717	T6G	3212206682000	6.8uH
51	C165	B7G	3101050400010	4pF	826	L718	B6H	3210406471000	470nH
52	C166	B8F	3101050500010	5pF	827	L8	T8F	3221506601000	Ferrite bead
53	C167	B8G	3101051040010	0.1uF	828	L801	B2F	3221513600000	Ferrite bead
54	C168	B8G	3101050500010	5pF	829	L802	T5E	3221513600000	Ferrite bead
55	C17	T7E	3101061000000	10pF	830	L803	B2F	3221513600000	Ferrite bead
56	C177	B7F	3101060500010	5pF	831	L804	T2F	3233099160000	16nH
57	C178	T7G	3101060400010	4pF	832	L805	B5E	3210306220000	22nH
58	C179	T7G	3101060200010	2pF	833	L806	B3G	3001060000000	0Ω
59	C18	B7G	3101054090010	4pF	834	L807	T1H	3210306101000	100nH
60	C181	B7E	3101050590010	5pF	835	L808	T1G	3001080000000	0Ω
61	C184	B6E	3101052210010	220pF	836	L809	T2H	3233099160000	16nH
62	C185	B7E	3101055600000	56pF	837	L810	T3H	3233099160000	16nH
63	C186	B7F	3101052210010	220pF	838	L811	B6E	3217106829010	8.2nH
64	C189	T7G	3101060700020	7pF	839	L813	T3H	3233099160000	16nH
65	C190	T7G	3101060900010	9pF	840	L815	B2I	3221506601000	Ferrite bead
66	C191	B7E	3101051800070	18pF	841	L816	B2H	3233099111000	111nH
67	C193	B7E	3101053300000	33pF	842	L817	T2I	3233099160000	16nH
68	C194	B7E	3101052210010	220pF	843	L819	T5F	3233099470000	47nH
69	C195	B7E	3101051040010	0.1uF	844	L820	T5E	3217112102020	1uH
70	C196	B7E	3101060700020	7pF	845	L821	B4H	3221506601000	Ferrite bead
71	C197	B6G	3101052210010	220pF	846	L822	B5E	3221506601000	Ferrite bead
72	C198	B7E	3101053690030	3.6pF	847	L823	T6F	3101063300000	33pF
73	C199	T7E	3101051030020	0.01uF	848	L824	T6F	3221506601000	Ferrite bead
74	C2	T6E	3101060300010	3pF	849	L825	T6E	3221506601000	Ferrite bead
75	C20	T8G	3101061000000	10pF	850	L826	T5E	3101061600000	16pF
76	C200	B5D	3101061050020	1uF	851	L827	T6E	3212106390000	39nH
77	C21	T7E	3101054710010	470pF	852	L828	T1J	3217112102020	1uH
78	C22	T7H	3101050800000	8pF	853	L829	T5F	3101065600040	56pF

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
79	C23	B8E	3101052210010	220pF	854	L830	T5F	3101065600040	56pF
80	C232	B4C	3101051040010	0.1uF	855	L832	T3I	3212106100000	10nH
81	C233	B4C	3101051040010	0.1uF	856	L833	T2J	3101064700000	47pF
82	C234	B4C	3101081060010	10uF	857	L9	T7G	3221506601000	Ferrite bead
83	C235	B4C	3101051030020	0.01uF	858	L900	T4B	3221513600000	Ferrite bead
84	C236	B6C	3101051040010	0.1uF	859	L901	T5B	3221506300000	Ferrite bead
85	C237	B5B	3101054740020	0.47uF	860	L902	T4C	3217699153000	15uH
86	C238	B5D	3101061050020	1uF	861	L903	T5C	3213099472000	4.7uH
87	C239	B6C	3101051040010	0.1uF	862	L904	B4D	3221506181000	Ferrite bead
88	C24	B8E	3101051040010	0.1uF	863	L906	B2B	3221513600000	Ferrite bead
89	C240	B6D	3101051040010	0.1uF	864	L908	B5D	3221506181000	Ferrite bead
90	C241	B5B	3001060000000	0Ω	865	L909	T7A	3221506181000	Ferrite bead
91	C242	B6B	3101062210000	220pF	866	L912	T5C	3221506300000	Ferrite bead
92	C243	B6B	3101051040010	0.1uF	867	L913	T6C	3221506300000	Ferrite bead
93	C245	B6A	3101062210000	220pF	868	L916	T3D	3221513600000	Ferrite bead
94	C246	B6B	3101052230000	0.022uF	869	L930	T4D	3241799103000	10uH
95	C247	B5C	3101052210010	220pF	870	L931	T5D	3213099472000	4.7uH
96	C248	B6C	3101051040010	0.1uF	871	L940	T2D	3221513600000	Ferrite bead
97	C249	B5C	3101061050020	1uF	872	Q100	B7E	3408002000080	NPN transistor
98	C25	B8E	3101050500010	5pF	873	Q101	B8E	3403999000000	Transistor
99	C250	B5B	3101052210010	220pF	874	Q102	T7E	3401002000990	NPN transistor
100	C251	B5D	3101061050020	1uF	875	Q103	B7F	3408002000080	NPN transistor
101	C252	B5B	3101061050020	1uF	876	Q104	B7F	3403003000060	NPN transistor
102	C253	B5B	3101061050020	1uF	877	Q105	B8F	3403999000000	Transistor
103	C254	B5C	3101052210010	220pF	878	Q106	B7G	3408002000080	NPN transistor
104	C255	B5C	3101051050000	1uF	879	Q107	T7E	3404006000000	NPN transistor
105	C256	B5D	3101051010030	100pF	880	Q108	B8F	3403999000000	Transistor
106	C257	B5C	3101061050020	1uF	881	Q109	T7G	3404006000000	NPN transistor
107	C258	B5C	3101051040010	0.1uF	882	Q110	B7G	3408002000080	NPN transistor
108	C259	B5D	3101061050020	1uF	883	Q111	T8G	3401002000990	NPN transistor
109	C26	B7E	3101063690000	3.6pF	884	Q112	B8H	3403999000000	Transistor
110	C260	B5C	3101051030020	0.01uF	885	Q116	T7G	3403999000000	Transistor
111	C261	B5C	3101051030020	0.01uF	886	Q117	T6E	3403999000000	Transistor
112	C262	B5D	3101061050020	1uF	887	Q230	B6A	3499000000150	Transistor
113	C263	B5C	3101061050020	1uF	888	Q231	B5C	3499000000150	Transistor
114	C264	B5B	3101061050020	1uF	889	Q232	B5D	3499000000150	Transistor
115	C265	B5B	3101052210010	220pF	890	Q233	B4B	3499000000150	Transistor
116	C266	B5C	3101061050020	1uF	891	Q234	B4C	3499000000150	Transistor
117	C267	B5D	3101051040010	0.1uF	892	Q235	B4C	3499000000150	Transistor
118	C268	B6A	3101064740010	0.47uF	893	Q323	T7C	3403008000010	Transistor
119	C269	B5C	3101052210010	220pF	894	Q400	B2A	3403002000000	PNP transistor
120	C27	B7E	3101050590010	5pF	895	Q401	B2A	3403008000010	Transistor
121	C270	B5D	3101052210010	220pF	896	Q402	T2B	3403008000010	Transistor
122	C271	B5D	3101052210010	220pF	897	Q403	B2A	3403008000010	Transistor
123	C272	B5D	3101052210010	220pF	898	Q404	B2B	3403008000010	Transistor
124	C273	B5D	3101052210010	220pF	899	Q405	T2A	3403008000010	Transistor
125	C274	B5D	3101051040010	0.1uF	900	Q406	B2C	3414999000000	Transistor
126	C275	B4B	3101071060010	10uF	901	Q407	B2B	3414999000000	Transistor
127	C276	B4B	3101051050000	1uF	902	Q408	B2B	3414999000000	Transistor
128	C277	B4B	3101061050020	1uF	903	Q409	B2C	3414999000000	Transistor
129	C278	B4C	3101061050020	1uF	904	Q410	B2C	3414999000000	Transistor
130	C279	B4C	3101061050020	1uF	905	Q411	T2B	3414999000000	Transistor
131	C28	B7E	3101052210010	220pF	906	Q412	T2C	3414999000000	Transistor
132	C280	B4C	3101052210010	220pF	907	Q413	T6C	3403008000010	Transistor
133	C281	B4C	3101061050020	1uF	908	Q414	T2C	3414999000000	Transistor
134	C282	B4C	3101061050020	1uF	909	Q415	T2C	3599990000710	P-MOSFET
135	C283	B6A	3101061040010	0.1uF	910	Q416	T2C	3414001000020	PNP transistor
136	C284	B5B	3101092260010	22uF	911	Q6100	T4J	3499000000150	Transistor
137	C285	B5A	3101051040010	0.1uF	912	Q6101	T5I	3403014000020	Transistor
138	C286	B5D	3101081060010	10uF	913	Q6102	T5J	3404999000000	NPN transistor
139	C287	B5A	3101064740000	0.47uF	914	Q6103	B8I	3404999000000	NPN transistor
140	C288	B5B	3101051010030	100pF	915	Q6104	T7I	3404006000000	NPN transistor
141	C289	B6A	3101061040010	0.1uF	916	Q6105	T7H	3404006000000	NPN transistor

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
142	C29	B8F	3101052210010	220pF	917	Q701	B6H	3408002000000	NPN transistor
143	C290	B6B	3101061050020	1uF	918	Q702	B6H	3403003000060	NPN transistor
144	C291	B6B	3101061050020	1uF	919	Q801	B6E	3404999000000	NPN transistor
145	C292	B5C	3101064750030	4.7uF	920	Q802	T4G	3601017000000	RF PA module
146	C293	B6B	3101071060010	10uF	921	Q803	T4F	3601017000000	RF PA module
147	C294	B5A	3101063340010	0.33uF	922	Q804	T5F	3504990000070	N-MOSFET
148	C295	B5C	3101051010030	100pF	923	Q805	T5E	3504990000010	PA MOSFET
149	C296	B5A	3101051010030	100pF	924	Q810	B5E	3403002000000	PNP transistor
150	C297	B4C	3101064710000	470pF	925	Q811	B5E	3403008000010	Transistor
151	C298	B5D	3101061050020	1uF	926	Q812	B4G	3403008000010	Transistor
152	C299	B5D	3101061050020	1uF	927	Q813	B4G	3403008000010	Transistor
153	C3	B7G	3101054700010	47pF	928	Q902	T4H	3403002000000	PNP transistor
154	C30	B8F	3101051040010	0.1uF	929	Q903	T5H	3403008000010	Transistor
155	C300	B4C	3101061040010	0.1uF	930	Q905	B3A	3499000000150	Transistor
156	C301	B5A	3101092260010	22uF	931	Q906	B3B	3414001000020	PNP transistor
157	C302	B5D	3101054710010	470pF	932	Q908	B3B	3403008000010	Transistor
158	C303	B5B	3101051040010	0.1uF	933	Q909	B3B	3403002000010	PNP transistor
159	C305	B5B	3101051050000	1uF	934	Q910	B3B	3414001000020	PNP transistor
160	C306	B5B	3101051030020	0.01uF	935	Q912	B3A	3403008000010	Transistor
161	C307	B5B	3101051010030	100pF	936	Q913	B2A	3403008000010	Transistor
162	C308	B7A	3101051040010	0.1uF	937	Q914	B3B	3403008000010	Transistor
163	C309	B7A	3101051010030	100pF	938	Q916	B2A	3599990000610	N-MOSFET
164	C31	B7F	3101060300010	3pF	939	Q921	B2E	3404999000020	NPN transistor
165	C310	T6A	3101051050000	1uF	940	Q922	T2C	3403008000010	Transistor
166	C311	B5B	3101051040010	0.1uF	941	Q923	T2C	3403008000010	Transistor
167	C32	B8G	3101050500010	5pF	942	R1	T8G	3001054700000	47Ω
168	C325	T8B	3101051040010	0.1uF	943	R109	T8F	3001051000000	10Ω
169	C326	T6C	3101051010030	100pF	944	R111	T7F	3001061010000	100Ω
170	C329	T6D	3101051040010	0.1uF	945	R1110	T8G	3001053300010	33Ω
171	C33	B8G	3101051010030	100pF	946	R114	T7F	3001065600000	56Ω
172	C330	T3A	3101051040010	0.1uF	947	R117	B7E	3001053930000	39kΩ
173	C331	T2A	3101071060010	10uF	948	R120	B7E	3001053930000	39kΩ
174	C332	T2A	3101051040010	0.1uF	949	R122	B8E	3001052700010	27Ω
175	C333	T3A	3101071060010	10uF	950	R123	B8G	3001052700010	27Ω
176	C334	T8D	3101051040010	0.1uF	951	R128	B7E	3001058230000	82kΩ
177	C335	B6B	3101051010030	100pF	952	R129	B8E	3001052210000	220Ω
178	C336	T7A	3101051040010	0.1uF	953	R130	B8G	3001052210000	220Ω
179	C337	T7B	3101051020010	1000pF	954	R131	B8F	3001053320000	3.3kΩ
180	C338	T7B	3101051020010	1000pF	955	R132	B8G	3001056820000	6.8kΩ
181	C339	B7B	3101051010030	100pF	956	R135	B8E	3001052210000	220Ω
182	C34	B8E	3101051010030	100pF	957	R136	B8G	3001052210000	220Ω
183	C340	T7A	3101051040010	0.1uF	958	R137	B7E	3001068200000	82Ω
184	C341	B6B	3101051010030	100pF	959	R138	B7F	3001058220000	8.2kΩ
185	C342	B6C	3101051010030	100pF	960	R139	B7E	3001068200000	82Ω
186	C343	T7C	3101051010030	100pF	961	R140	B7E	3001051010040	100Ω
187	C344	T7D	3101051010030	100pF	962	R141	T7E	3001054700000	47Ω
188	C345	T7C	3101051010030	100pF	963	R142	B8E	3001053320000	3.3kΩ
189	C346	T7C	3101051010030	100pF	964	R143	B8E	3001056820000	6.8kΩ
190	C347	T6D	3101051010030	100pF	965	R144	B7G	3001061210000	120Ω
191	C348	T6C	3101051010030	100pF	966	R145	B7E	3001051010040	100Ω
192	C349	T6C	3101051010030	100pF	967	R146	T7E	3001051010040	100Ω
193	C350	T6C	3101051010030	100pF	968	R147	T7E	3001051010040	100Ω
194	C351	T6C	3101051010030	100pF	969	R148	T8G	3001051010040	100Ω
195	C352	T6C	3101051010030	100pF	970	R151	T7E	3001051530010	15kΩ
196	C353	T6C	3101051010030	100pF	971	R152	T7E	3001053630000	36kΩ
197	C354	T6C	3101051010030	100pF	972	R153	B8E	3221506601000	Ferrite bead
198	C355	B6C	3101051010030	100pF	973	R155	T7E	3001052030000	20kΩ
199	C356	T7C	3101051040010	0.1uF	974	R156	T7E	3001056800000	68Ω
200	C357	T6C	3101051010030	100pF	975	R157	B8F	3221506601000	Ferrite bead
201	C358	T7D	3101051010030	100pF	976	R158	B8F	3001056820000	6.8kΩ
202	C359	B7D	3101051010030	100pF	977	R159	B7F	3001057520000	7.5kΩ
203	C360	B7D	3101051010030	100pF	978	R160	B7G	3001051010040	100Ω
204	C361	B7D	3101051010030	100pF	979	R161	T7E	3001051830000	18kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
205	C362	T7B	3101058200000	82pF	980	R167	T8G	3001053300010	33Ω
206	C363	T7B	3101058200000	82pF	981	R171	T7F	3001060000000	0Ω
207	C364	T7B	3101053900000	39pF	982	R174	T8E	3001050000000	0Ω
208	C365	T7B	3101058200000	82pF	983	R175	T7F	3001051000000	10Ω
209	C366	T6D	3101051040010	0.1uF	984	R176	B7F	3001054720000	4.7kΩ
210	C367	T7A	3101071060010	10uF	985	R177	T7F	3001051030000	10kΩ
211	C368	T7A	3101054710010	470pF	986	R178	T8G	3001053300010	33Ω
212	C369	T3C	3101054710010	470pF	987	R179	B8F	3221506601000	Ferrite bead
213	C375	T7B	3101052000020	20pF	988	R180	T6F	3001051030000	10kΩ
214	C376	T7C	3101052000020	20pF	989	R181	T7F	3001051020000	1kΩ
215	C378	B7B	3101051010030	100pF	990	R183	T7F	3001051020000	1kΩ
216	C379	B6B	3101051040010	0.1uF	991	R186	B8G	3221506601000	Ferrite bead
217	C380	B7B	3101051040010	0.1uF	992	R187	T7F	3001068200000	82Ω
218	C381	B6C	3101051030020	0.01uF	993	R188	T8F	3001050000000	0Ω
219	C382	B6C	3101051040010	0.1uF	994	R190	T7G	3001051010040	100Ω
220	C383	B6C	3101051040010	0.1uF	995	R192	B7G	3001061210000	120Ω
221	C384	B6B	3101051030020	0.01uF	996	R194	B8H	3001057520000	7.5kΩ
222	C385	B6B	3101051010030	100pF	997	R195	T7G	3001052030000	20kΩ
223	C386	B6B	3101051040010	0.1uF	998	R196	B7G	3001051010040	100Ω
224	C387	B7B	3101051040010	0.1uF	999	R197	T7H	3001050000000	0Ω
225	C388	B7C	3101051040010	0.1uF	1000	R198	T7G	3001051530010	15kΩ
226	C389	B7B	3101051040010	0.1uF	1001	R199	T8G	3001051240000	120kΩ
227	C390	B6C	3101051010030	100pF	1002	R2	T8E	3001060000000	0Ω
228	C391	T7C	3101051040010	0.1uF	1003	R202	B5D	3001051030000	10kΩ
229	C392	B6C	3101051040010	0.1uF	1004	R231	B6C	3001053300010	33Ω
230	C393	B6C	3101051040010	0.1uF	1005	R232	B6D	3001053300010	33Ω
231	C394	B7B	3101051040010	0.1uF	1006	R234	B6C	3001051030000	10kΩ
232	C396	T6B	3101061050020	1uF	1007	R235	B6C	3001051030000	10kΩ
233	C398	B6B	3101051040010	0.1uF	1008	R236	B5D	3001051030000	10kΩ
234	C399	B6B	3101051030020	0.01uF	1009	R237	B5A	3001055630000	56kΩ
235	C4	B7G	3101051500080	15pF	1010	R238	B5B	3001053320000	3.3kΩ
236	C400	B7B	3101051040010	0.1uF	1011	R239	B6B	3001055620000	5.6kΩ
237	C402	T6C	3101071060010	10uF	1012	R240	T6D	3001053320000	3.3kΩ
238	C407	T8C	3101051040010	0.1uF	1013	R241	B5A	3001055630000	56kΩ
239	C409	T7C	3101051010030	100pF	1014	R242	B6C	3001050000000	0Ω
240	C410	T8C	3101051010030	100pF	1015	R244	B5C	3001052230010	22kΩ
241	C411	T8C	3101051010030	100pF	1016	R246	B5C	3001052230010	22kΩ
242	C412	T8C	3101051010030	100pF	1017	R247	B5B	3001051040010	100kΩ
243	C413	T7C	3101051010030	100pF	1018	R248	B5B	3001051040010	100kΩ
244	C414	T7C	3101051010030	100pF	1019	R250	B5B	3001051530000	15kΩ
245	C415	T7C	3101051010030	100pF	1020	R251	B5B	3001051010000	100Ω
246	C416	T7C	3101051010030	100pF	1021	R252	B5C	3001051040010	100kΩ
247	C417	T8C	3101051010030	100pF	1022	R255	B5D	3001064710000	470Ω
248	C418	T8C	3101051010030	100pF	1023	R257	B5C	3001053030010	30kΩ
249	C419	B8D	3101051010030	100pF	1024	R258	B5C	3001051030000	10kΩ
250	C42	B8E	3101050100030	1pF	1025	R259	B5C	3001051030000	10kΩ
251	C420	B8D	3101051010030	100pF	1026	R260	B5C	3001051010000	100Ω
252	C421	T2C	3101052210010	220pF	1027	R261	B5C	3001051030000	10kΩ
253	C422	T2B	3101051040010	0.1uF	1028	R262	B5B	3001051040010	100kΩ
254	C423	T2C	3101052210010	220pF	1029	R263	B5B	3001053030010	30kΩ
255	C424	T2A	3101052210010	220pF	1030	R264	B5D	3001051020010	1kΩ
256	C425	T2A	3101052210010	220pF	1031	R265	B4B	3001051820000	1.8kΩ
257	C426	T2B	3101051010030	100pF	1032	R266	B4B	3001054730000	47kΩ
258	C427	T2C	3101051010030	100pF	1033	R267	B5D	3001051020010	1kΩ
259	C428	T2C	3101051010030	100pF	1034	R268	B5B	3001051040010	100kΩ
260	C429	T2C	3101051010030	100pF	1035	R269	B4B	3001051040010	100kΩ
261	C430	T2A	3101051010030	100pF	1036	R270	B4B	3001054730000	47kΩ
262	C431	T2A	3101051010030	100pF	1037	R271	B4B	3001051010000	100Ω
263	C432	T2B	3101052210010	220pF	1038	R272	B5B	3001054730000	47kΩ
264	C433	T2B	3101052210010	220pF	1039	R273	B4C	3001052430010	24kΩ
265	C434	T2B	3101052210010	220pF	1040	R274	B4C	3001051040010	100kΩ
266	C435	B8D	3101051010030	100pF	1041	R275	B4C	3001051040010	100kΩ
267	C436	T2C	3101052210010	220pF	1042	R276	B4C	3001051040010	100kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
268	C437	T2B	3101052210010	220pF	1043	R277	B4C	3001054730000	47kΩ
269	C438	B7C	3101054740020	0.47uF	1044	R278	B4C	3001051010000	100Ω
270	C439	B7C	3101054740020	0.47uF	1045	R279	B5D	3001053030010	30kΩ
271	C440	B8D	3101051010030	100pF	1046	R282	T6A	3001060000000	0Ω
272	C441	T8C	3101051010030	100pF	1047	R283	B5D	3001053030010	30kΩ
273	C442	B8B	3101051010030	100pF	1048	R284	B5D	3001051530000	15kΩ
274	C443	B8B	3101051010030	100pF	1049	R285	B5D	3001051530000	15kΩ
275	C444	B8A	3101051010030	100pF	1050	R286	B6B	3001054730000	47kΩ
276	C445	B8B	3101051010030	100pF	1051	R287	B6B	3001055620000	5.6kΩ
277	C446	B8A	3101051010030	100pF	1052	R288	B6A	3001054730000	47kΩ
278	C447	B8B	3101051010030	100pF	1053	R289	B6A	3001050000000	0Ω
279	C448	B8A	3101051010030	100pF	1054	R290	B5C	3001051020000	1kΩ
280	C449	B8A	3101051010030	100pF	1055	R291	B6B	3001051220000	1.2kΩ
281	C450	B8A	3101051010030	100pF	1056	R292	B6B	3001053300010	33Ω
282	C451	B8A	3101051010030	100pF	1057	R295	B5A	3001051020000	1kΩ
283	C452	B8B	3101051010030	100pF	1058	R296	B6B	3001051040000	100kΩ
284	C453	B8B	3101051010030	100pF	1059	R3	T7F	3001050000000	0Ω
285	C454	B8B	3101051010030	100pF	1060	R316	T5B	3001051030000	10kΩ
286	C455	B8B	3101051010030	100pF	1061	R319	T6B	3001053300010	33Ω
287	C456	B8B	3101051010030	100pF	1062	R320	B6B	3001053300010	33Ω
288	C46	B7G	3101052210010	220pF	1063	R322	T5B	3001051030000	10kΩ
289	C463	B7C	3101051010030	100pF	1064	R324	T7C	3001053300010	33Ω
290	C465	B8C	3101051010030	100pF	1065	R326	T6B	3001051030000	10kΩ
291	C466	B8C	3101051010030	100pF	1066	R327	B6C	3001053300010	33Ω
292	C467	B8C	3101051010030	100pF	1067	R337	T7C	3001051010000	100Ω
293	C468	B8C	3101051010030	100pF	1068	R338	T7B	3001051010000	100Ω
294	C469	B8A	3101051010030	100pF	1069	R339	T7C	3001051010000	100Ω
295	C473	T8D	3101051040010	0.1uF	1070	R346	B6C	3001051010000	100Ω
296	C474	T2C	3101054710010	470pF	1071	R347	T7D	3001053300010	33Ω
297	C476	T2C	3101054710010	470pF	1072	R348	T8B	3001050000000	0Ω
298	C477	T7C	3101051010030	100pF	1073	R349	T8B	3001053300010	33Ω
299	C478	T7C	3101051010030	100pF	1074	R350	T8B	3001053300010	33Ω
300	C479	T8C	3101051010030	100pF	1075	R351	T6B	3001051030000	10kΩ
301	C480	T8C	3101051010030	100pF	1076	R352	T2C	3001053300010	33Ω
302	C483	B2B	3101051040010	0.1uF	1077	R353	T6A	3001051030000	10kΩ
303	C484	T2C	3101062250000	2.2uF	1078	R354	T6C	3001053300010	33Ω
304	C485	B2C	3101051040010	0.1uF	1079	R355	B6C	3001053300010	33Ω
305	C49	B7G	3101060400010	4pF	1080	R356	B6A	3001050000000	0Ω
306	C5	B7G	3101052700000	27pF	1081	R357	T6C	3001053300010	33Ω
307	C50	T8G	3101054710010	470pF	1082	R358	B7B	3001051000000	10Ω
308	C500	B7C	3101053300000	33pF	1083	R360	B7B	3001051000000	10Ω
309	C501	B7C	3101053310020	330pF	1084	R361	B7B	3001051530000	15kΩ
310	C502	B7C	3101053320010	3300pF	1085	R362	B7B	3001051530000	15kΩ
311	C503	B7C	3101051820000	1800pF	1086	R363	T3A	3001050000000	0Ω
312	C506	B7C	3101051030020	0.01uF	1087	R364	T3A	3001050000000	0Ω
313	C507	B7C	3101051030020	0.01uF	1088	R365	T3C	3001051030000	10kΩ
314	c508	B7C	3101071060010	10uF	1089	R366	T3C	3001051030000	10kΩ
315	C509	B7C	3101051040010	0.1uF	1090	R367	T6D	3001053300010	33Ω
316	C510	B7C	3101051010030	100pF	1091	R368	T3C	3001051010000	100Ω
317	C511	B7B	3101071060010	10uF	1092	R369	T6D	3001053300010	33Ω
318	C512	B7B	3101051040010	0.1uF	1093	R370	T3C	3001051010000	100Ω
319	C513	B7C	3101051020010	1000pF	1094	R371	T6D	3001053300010	33Ω
320	C514	B7C	3101051040010	0.1uF	1095	R372	T6D	3001051030000	10kΩ
321	C515	B7C	3101051040010	0.1uF	1096	R373	T3C	3001053300010	33Ω
322	C516	B7B	3101051010030	100pF	1097	R374	T7B	3001050000000	0Ω
323	C517	B7B	3101051010030	100pF	1098	R375	T6C	3001050000000	0Ω
324	C518	B7B	3101051010030	100pF	1099	R376	T6C	3001053300010	33Ω
325	C519	B5C	3101071060010	10uF	1100	R377	T6C	3001051030000	10kΩ
326	C52	B7G	3101052210010	220pF	1101	R378	T6C	3001051020000	1kΩ
327	C520	B6D	3101071060010	10uF	1102	R379	T7C	3001051030000	10kΩ
328	C53	T8G	3101051590000	1.5pF	1103	R380	T6C	3001053300010	33Ω
329	C55	T7G	3101063690000	3.6pF	1104	R381	T6C	3001053300010	33Ω
330	C56	T7G	3101050600010	6pF	1105	R382	T6C	3001051020000	1kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
331	C58	T7G	3101051030020	0.01uF	1106	R383	B7C	3001051020010	1kΩ
332	C59	T7G	3101051200020	12pF	1107	R385	B7B	3001051030000	10kΩ
333	C6	B7F	3101052210010	220pF	1108	R386	B6B	3001051000000	10Ω
334	C60	T7G	3101051020010	1000pF	1109	R387	T7B	3001053300010	33Ω
335	C61	T7H	3101051200020	12pF	1110	R388	T7C	3001051000000	10Ω
336	C6100	T4I	3101061050020	1uF	1111	R390	T7B	3001051030000	10kΩ
337	C6102	T6J	3101054710010	470pF	1112	R391	T8D	3001051030000	10kΩ
338	C6103	T4I	3101052210010	220pF	1113	R392	T7D	3001051030000	10kΩ
339	C6104	T5I	3101051040010	0.1uF	1114	R393	T7D	3001051030000	10kΩ
340	C6105	T5J	3101052210010	220pF	1115	R394	T7D	3001051030000	10kΩ
341	C6106	T4J	3101052210010	220pF	1116	R395	T7D	3001054720000	4.7kΩ
342	C6107	T5J	3101052210010	220pF	1117	R396	T7D	3001054720000	4.7kΩ
343	C6109	T4J	3101050600010	6pF	1118	R398	T3A	3001054720000	4.7kΩ
344	C6110	T4J	3101050100030	1pF	1119	R399	T6A	3001050000000	0Ω
345	C6111	T5J	3101050600010	6pF	1120	R4	T8E	3001061010000	100Ω
346	C6112	T5J	3101050600010	6pF	1121	R400	T7D	3001051030000	10kΩ
347	C6113	T5J	3101051040010	0.1uF	1122	R401	B7B	3001051520000	1.5kΩ
348	C6114	T5J	3101050500010	5pF	1123	R402	T6D	3001053300010	33Ω
349	C6115	T6J	3001050000000	0Ω	1124	R403	T6C	3001051010000	100Ω
350	C6116	T6J	3101050600010	6pF	1125	R404	T6C	3001051010000	100Ω
351	C6117	T6J	3101050100030	1pF	1126	R405	T2A	3001061030000	10kΩ
352	C6118	T4J	3101054710010	470pF	1127	R406	T6C	3001051010000	100Ω
353	C6119	T4J	3101051590000	1.5pF	1128	R407	T8C	3001060000000	0Ω
354	C6120	T4J	3101050100030	1pF	1129	R408	T7C	3001053300010	33Ω
355	C6121	T4J	3101050100030	1pF	1130	R409	T8C	3001051010000	100Ω
356	C6122	T5J	3101052290010	2.2pF	1131	R410	T6C	3001051010000	100Ω
357	C6123	T5J	3001050000000	0Ω	1132	R411	T6C	3001051010000	100Ω
358	C6124	T6J	3101050100030	1pF	1133	R412	T8C	3001053300010	33Ω
359	C6126	T6J	3101050100030	1pF	1134	R413	T6C	3001053300010	33Ω
360	C6127	T6J	3101051590000	1.5pF	1135	R414	T7A	3001051000000	10Ω
361	C6128	T6J	3101054710010	470pF	1136	R415	T7C	3001053300010	33Ω
362	C6129	T5J	3101051800010	18pF	1137	R416	T8C	3001051010000	100Ω
363	C6130	T5J	3101051010030	100pF	1138	R417	T2A	3001062030000	20kΩ
364	C6133	T5J	3101050400010	4pF	1139	R420	T8C	3001053300010	33Ω
365	C6134	T4I	3101055600000	56pF	1140	R421	T6C	3001051010000	100Ω
366	C6135	T4I	3101055600000	56pF	1141	R422	T7B	3001051030000	10kΩ
367	C6136	T4I	3101055600000	56pF	1142	R423	T7C	3001053300010	33Ω
368	C6137	T4I	3101054700010	47pF	1143	R424	T7C	3001053300010	33Ω
369	C6138	T4I	3101054700010	47pF	1144	R425	T7C	3001053300010	33Ω
370	C6139	T6I	3101055600000	56pF	1145	R426	T7A	3001050000000	0Ω
371	C6140	T6I	3101055600000	56pF	1146	R427	T2B	3001051030000	10kΩ
372	C6141	T6I	3101055600000	56pF	1147	R428	T2B	3001054720000	4.7kΩ
373	C6142	T6I	3101054700010	47pF	1148	R429	T6C	3001051030000	10kΩ
374	C6143	T6I	3101054700010	47pF	1149	R430	T8C	3001053300010	33Ω
375	C6144	B4H	3101052210010	220pF	1150	R431	T7C	3001053300010	33Ω
376	C6145	B4I	3101061050020	1uF	1151	R432	T7C	3001053300010	33Ω
377	C6146	T4I	3101054710010	470pF	1152	R433	T7C	3001053300010	33Ω
378	C6147	T6I	3101051030020	0.01uF	1153	R434	T8D	3001051010000	100Ω
379	C6148	B7H	3101054710010	470pF	1154	R435	T2C	3001054720000	4.7kΩ
380	C6149	B7H	3101061050020	1uF	1155	R436	T2B	3001054720000	4.7kΩ
381	C6151	B7H	3101054710010	470pF	1156	R437	T2A	3001054720000	4.7kΩ
382	C6152	B8I	3101051590000	1.5pF	1157	R438	B2A	3001051030000	10kΩ
383	C6153	B8I	3101050100030	1pF	1158	R439	B2A	3001051010000	100Ω
384	C6154	B8I	3101050200010	2pF	1159	R440	T6B	3001050000000	0Ω
385	C6157	B8I	3101061010010	100pF	1160	R441	B6A	3001051030000	10kΩ
386	C6158	B7H	3001060000000	0Ω	1161	R442	T6A	3001051030000	10kΩ
387	C6159	B8H	3101052210010	220pF	1162	R443	T2A	3001051030000	10kΩ
388	C6160	B8H	3101052700000	27pF	1163	R445	T2A	3001051010000	100Ω
389	C6161	B8H	3101051500020	15pF	1164	R447	T2A	3001051030000	10kΩ
390	C6162	B8I	3101051500020	15pF	1165	R448	T2B	3001054720000	4.7kΩ
391	C6163	B8I	3101050700010	7pF	1166	R449	B2A	3001064730000	47kΩ
392	C6164	B8I	3101051500020	15pF	1167	R450	B2A	3001071020000	1kΩ
393	C6166	T7I	3101051010030	100pF	1168	R451	B2B	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
394	C6168	T7I	3101051040010	0.1uF	1169	R452	B2B	3001051030000	10kΩ
395	C6169	T7I	3101051040010	0.1uF	1170	R453	T5B	3001051030000	10kΩ
396	C6170	T7I	3101050900000	9pF	1171	R454	B2A	3001050000000	0Ω
397	C6171	T7I	3101051040010	0.1uF	1172	R455	T2A	3001058230000	82kΩ
398	C6172	B7I	3001050000000	0Ω	1173	R456	T8C	3001050000000	0Ω
399	C6173	T7H	3101051040010	0.1uF	1174	R457	T8C	3001050000000	0Ω
400	C6175	T8H	3101051040010	0.1uF	1175	R458	T8C	3001051010000	100Ω
401	C6176	T8I	3001060000000	0Ω	1176	R459	T8C	3001051010000	100Ω
402	C6177	T8I	3101051500020	15pF	1177	R460	T7D	3001051020010	1kΩ
403	C6178	T7I	3101051030020	0.01uF	1178	R461	B2C	3001051030000	10kΩ
404	C6179	T7H	3101051040010	0.1uF	1179	R462	B2B	3001051030000	10kΩ
405	C6180	T7H	3101051040010	0.1uF	1180	R463	B2B	3001051030000	10kΩ
406	C6185	T6J	3101061050020	1uF	1181	R464	B2B	3001051030000	10kΩ
407	C6190	T7I	3101061050020	1uF	1182	R465	B2C	3001051030000	10kΩ
408	C6193	B7H	3101061040010	0.1uF	1183	R466	B2C	3001051030000	10kΩ
409	C6194	T4J	3212106100000	10nH	1184	R467	B2C	3001053300010	33Ω
410	C62	B8G	3101050100030	1pF	1185	R468	T2B	3001054720000	4.7kΩ
411	C6246	T6J	3101050600010	6pF	1186	R469	T2C	3001054720000	4.7kΩ
412	C64	T7F	3110071040000	0.1uF	1187	R470	T2B	3001054720000	4.7kΩ
413	C66	T6F	3110071040000	0.1uF	1188	R471	T2B	3001054720000	4.7kΩ
414	C67	T7F	3110071040000	0.1uF	1189	R472	T2B	3001054720000	4.7kΩ
415	C68	T6F	3110071040000	0.1uF	1190	R473	B2C	3001053300010	33Ω
416	C69	T7F	3110071040000	0.1uF	1191	R474	B2C	3001053300010	33Ω
417	C7	B7F	3101051040010	0.1uF	1192	R475	T2A	3001051030000	10kΩ
418	C70	T6F	3110071040000	0.1uF	1193	R476	T8C	3001054720000	4.7kΩ
419	C702	T6H	3101051030020	0.01uF	1194	R479	T6C	3001053300010	33Ω
420	C703	T6H	3101060300010	3pF	1195	R481	B5B	3001051030000	10kΩ
421	C704	T6H	3101052210010	220pF	1196	R482	B6B	3001051030000	10kΩ
422	C705	T6H	3101051040010	0.1uF	1197	R483	B6B	3001051030000	10kΩ
423	C706	T6H	3101054710010	470pF	1198	R484	T8C	3001054720000	4.7kΩ
424	C707	T6H	3101051040010	0.1uF	1199	R485	B7C	3001053300010	33Ω
425	C708	T6H	3101051040010	0.1uF	1200	R486	B7C	3001053300010	33Ω
426	C71	B7F	3101071050240	1uF	1201	R487	T7A	3001053300010	33Ω
427	C710	T6H	3101051020010	1000pF	1202	R488	T7B	3001054720000	4.7kΩ
428	C712	T6H	3101051040010	0.1uF	1203	R489	T7A	3001053300010	33Ω
429	C713	T6H	3101053920000	3900pF	1204	R490	T7A	3001053300010	33Ω
430	C714	T6G	3101051000020	10pF	1205	R491	B7C	3001053300010	33Ω
431	C715	T6H	3101064740000	0.47uF	1206	R492	T7A	3001053300010	33Ω
432	C716	T6I	3101061810060	180pF	1207	R493	T2A	3001061040010	100kΩ
433	C717	B6H	3101054710010	470pF	1208	R495	B7C	3001053300010	33Ω
434	C718	B6H	3101051050160	1uF	1209	R496	B2C	3001054720000	4.7kΩ
435	C719	T5G	3101051050000	1uF	1210	R497	B2B	3001051020000	1kΩ
436	C72	T7F	3110071040000	0.1uF	1211	R498	B7C	3001053300010	33Ω
437	C720	T6H	3101051040010	0.1uF	1212	R499	B7B	3001054720000	4.7kΩ
438	C721	T6H	3101051010030	100pF	1213	R5	T7E	3001050000000	0Ω
439	C722	T6H	3101051010030	100pF	1214	R500	B7C	3001051040000	100kΩ
440	C723	B6H	3101051500020	15pF	1215	R501	B7C	3001051030010	10kΩ
441	C724	B6H	3101051800010	18pF	1216	R502	B7C	3001051020000	1kΩ
442	C725	B6H	3101051030020	0.01uF	1217	R503	B7C	3001051020000	1kΩ
443	C726	B6H	3101074750000	4.7uF	1218	R504	B7C	3001051020000	1kΩ
444	C727	B6H	3101054710010	470pF	1219	R505	B7C	3001050000000	0Ω
445	C728	T5H	3101051020010	1000pF	1220	R506	B7C	3001051030000	10kΩ
446	C729	T5H	3101051040010	0.1uF	1221	R507	B7C	3001050000000	0Ω
447	C730	B6H	3101052200010	22pF	1222	R508	T2C	3001051030000	10kΩ
448	C731	B6H	3101050600010	6pF	1223	R509	B7B	3001051030000	10kΩ
449	C732	B6H	3101052200010	22pF	1224	R510	B7B	3001051030000	10kΩ
450	C733	T5H	3101051040010	0.1uF	1225	R511	B7B	3001054720000	4.7kΩ
451	C734	B6H	3101053000010	30pF	1226	R512	B7C	3001051030000	10kΩ
452	C735	T5H	3101051040010	0.1uF	1227	R513	B7C	3001051040000	100kΩ
453	C736	T5H	3101051030020	0.01uF	1228	R514	B7C	3001051040000	100kΩ
454	C737	T5H	3101051040010	0.1uF	1229	R515	T7A	3001053300010	33Ω
455	C738	T5H	3101051010030	100pF	1230	R516	T7A	3001053300010	33Ω
456	C739	T5H	3101051010030	100pF	1231	R517	T7A	3001053300010	33Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
457	C74	T7F	3110071040000	0.1uF	1232	R518	T7A	3001053300010	33Ω
458	C740	T5H	3101051040010	0.1uF	1233	R519	T7B	3001053300010	33Ω
459	C741	T5H	3101051040010	0.1uF	1234	R520	T7B	3001053300010	33Ω
460	C742	T6H	3101061050020	1uF	1235	R521	T7B	3001053300010	33Ω
461	C744	B5H	3101051040010	0.1uF	1236	R522	T7A	3001053300010	33Ω
462	C745	B5H	3101053300000	33pF	1237	R523	B7B	3001053300010	33Ω
463	C746	T4H	3101054710010	470pF	1238	R524	B7B	3001053300010	33Ω
464	C748	B5H	3101061040010	0.1uF	1239	R525	B8B	3001053300010	33Ω
465	C749	T5G	3101053900000	39pF	1240	R526	B7B	3001053300010	33Ω
466	C75	T7F	3101051020010	1000pF	1241	R527	B7B	3001053300010	33Ω
467	C750	B5H	3101071050240	1uF	1242	R528	B7C	3001056830000	68kΩ
468	C751	T6G	3101051000020	10pF	1243	R529	B7C	3001053330000	33kΩ
469	C752	T4I	3101074750000	4.7uF	1244	R530	T8D	3001051030000	10kΩ
470	C754	T4I	3101061050020	1uF	1245	R531	T8D	3001051030000	10kΩ
471	C755	T6I	3101074750000	4.7uF	1246	R532	T8C	3001051030000	10kΩ
472	C756	T6I	3101051040010	0.1uF	1247	R533	B7B	3001053300010	33Ω
473	C76	T8F	3101051010030	100pF	1248	R534	B8C	3001051030000	10kΩ
474	C763	T5H	3101051010030	100pF	1249	R535	B8C	3001051030000	10kΩ
475	C764	T5H	3101051010030	100pF	1250	R536	T5B	3001050000000	0Ω
476	C765	T5H	3101051010030	100pF	1251	R538	T7C	3001051030000	10kΩ
477	C766	T5H	3101051010030	100pF	1252	R539	T7C	3001051030000	10kΩ
478	C767	T5H	3101051010030	100pF	1253	R540	T8D	3001051030000	10kΩ
479	C769	T6G	3101051010030	100pF	1254	R541	T8C	3001051030000	10kΩ
480	C77	T8F	3101051010030	100pF	1255	R543	T7C	3001051030000	10kΩ
481	C78	T6F	3110071040000	0.1uF	1256	R544	B5B	3001050000000	0Ω
482	C79	T7E	3101051020010	1000pF	1257	R545	B7D	3001053300010	33Ω
483	C8	T7E	3101054710010	470pF	1258	R546	B2C	3001061010000	100Ω
484	C80	T8F	3101051030020	0.01uF	1259	R552	B7D	3001053300010	33Ω
485	C801	B1F	3101081020010	1000pF	1260	R553	B7D	3001053300010	33Ω
486	C802	B1F	3101063320000	3300pF	1261	R554	T8D	3001051020010	1kΩ
487	C803	B1F	3101063300000	33pF	1262	R555	T8D	3001051030000	10kΩ
488	C804	B1F	3101092260010	22uF	1263	R556	T2C	3001051010000	100Ω
489	C805	T4G	3101072700010	27pF	1264	R557	T2B	3001051010000	100Ω
490	C806	T4F	3101072700010	27pF	1265	R558	B2C	3001053330010	33kΩ
491	C807	T5E	3101081060010	10uF	1266	R559	B2B	3001053330010	33kΩ
492	C808	B5E	3101062210000	220pF	1267	R560	B2B	3001053330010	33kΩ
493	C809	B5E	3101062210000	220pF	1268	R561	B2C	3001053330010	33kΩ
494	C810	T5G	3101072000010	20pF	1269	R562	B2C	3001053330010	33kΩ
495	C811	B6E	3101064710000	470pF	1270	R563	T2B	3001051030000	10kΩ
496	C812	T3G	3101372200000	22pF	1271	R564	B7C	3001050000000	0Ω
497	C814	B5E	3101061800000	18pF	1272	R565	B7C	3001050000000	0Ω
498	C815	T5F	3001070000000	0Ω	1273	R566	B7C	3001050000000	0Ω
499	C816	T3H	3101080200010	2pF	1274	R567	B7C	3001050000000	0Ω
500	C817	T2H	3101064710000	470pF	1275	R569	T2C	3001051030000	10kΩ
501	C818	B6E	3101061500010	15pF	1276	R570	T2C	3001064720000	4.7kΩ
502	C819	T3F	3101080800010	8pF	1277	R571	T6C	3001051030000	10kΩ
503	C82	T7F	3101051020010	1000pF	1278	R573	T2C	3001054720000	4.7kΩ
504	C820	T3F	3101372200000	22pF	1279	R574	T2C	3001064720000	4.7kΩ
505	C822	B6E	3101062210000	220pF	1280	R575	T2B	3001053330010	33kΩ
506	C823	T2F	3101371800000	18pF	1281	R576	T2C	3001053330010	33kΩ
507	C824	T1F	3101080800010	8pF	1282	R577	T2B	3001061010000	100Ω
508	C825	B2F	3101074700050	47pF	1283	R578	B2B	3001061010000	100Ω
509	C826	T5E	3210306220000	22nH	1284	R579	B2B	3001061010000	100Ω
510	C827	T3I	3101084710010	470pF	1285	R580	B2C	3001061010000	100Ω
511	C829	B4E	3101061040010	0.1uF	1286	R581	B2C	3001061010000	100Ω
512	C83	T8F	3101051040010	0.1uF	1287	R6	T7F	3001050000000	0Ω
513	C830	T3H	3101080600010	6pF	1288	R6004	T5B	3001063320000	3.3kΩ
514	C832	T2F	3101080100010	1pF	1289	R6100	T4I	3001055110000	510Ω
515	C8330	T3F	3101372000000	20pF	1290	R6101	T6I	3001056810000	680Ω
516	C835	T1H	3101080100010	1pF	1291	R6102	T5J	3001071000000	10Ω
517	C836	T2H	3101080200010	2pF	1292	R6103	T5I	3001052730010	27kΩ
518	C837	T2H	3101080500010	5pF	1293	R6104	T5J	3001052720000	2.7kΩ
519	C838	T3I	3101080600010	6pF	1294	R6105	T5J	3001055620000	5.6kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
520	C839	T5F	3001070000000	0Ω	1295	R6106	T4J	3001066810000	680Ω
521	C84	T7F	3110071040000	0.1uF	1296	R6107	T5J	3001051220000	1.2kΩ
522	C840	T5F	3101072000010	20pF	1297	R6109	T4J	3001063910000	390Ω
523	C841	T3F	3101080800010	8pF	1298	R6110	T5J	3001051220000	1.2kΩ
524	C842	T3G	3101372000000	20pF	1299	R6111	T4I	3001051040000	100kΩ
525	C843	T5E	3101064710000	470pF	1300	R6112	T6I	3001051040000	100kΩ
526	C845	B4E	3101062210000	220pF	1301	R6113	B4H	3001052740000	270kΩ
527	C847	T2I	3101061510050	150pF	1302	R6114	B4H	3001053300010	33Ω
528	C848	T3J	3101061510050	150pF	1303	R6115	B4H	3001051040000	100kΩ
529	C85	T8E	3101051040010	0.1uF	1304	R6116	B4H	3001060000000	0Ω
530	C850	B2I	3101084710010	470pF	1305	R6117	B7H	3001068200000	82Ω
531	C851	T2I	3101080200010	2pF	1306	R6118	B7H	3001053320000	3.3kΩ
532	C852	T2H	3101061010010	100pF	1307	R6119	B8H	3001051220000	1.2kΩ
533	C853	T5F	3101062210000	220pF	1308	R6120	T7I	3001055100010	51Ω
534	C854	T5F	3101061040010	0.1uF	1309	R6121	B7H	3001055690000	5.6Ω
535	C857	T3J	3101062000000	20pF	1310	R6122	B7H	3001051220000	1.2kΩ
536	C859	T5F	3101071500010	15pF	1311	R6123	T4J	3001050000000	0Ω
537	C86	T7F	3101051040010	0.1uF	1312	R6124	B7I	3001058210000	820Ω
538	C861	T2I	3101066800000	68pF	1313	R6125	B7I	3001058210000	820Ω
539	C862	T3I	3101061590010	1.5pF	1314	R6126	B7H	3001068200000	82Ω
540	C863	T6E	3101064720000	4700pF	1315	R6127	T4I	3001051030000	10kΩ
541	C864	T6E	3212106689000	6.8nH	1316	R6129	B7I	3001063310010	330Ω
542	C866	T6F	3001060000000	0Ω	1317	R6130	T7I	3001055120030	5.1KΩ
543	C868	B4H	3101061040010	0.1uF	1318	R6131	T7I	3001051220000	1.2kΩ
544	C869	T5F	3101071500010	15pF	1319	R6132	T7I	3001055100010	51Ω
545	C87	T7E	3101051040010	0.1uF	1320	R6133	T7H	3001053310010	330Ω
546	C870	T2G	3101080100010	1pF	1321	R6134	T7H	3001053030000	30kΩ
547	C875	B4H	3101051510000	150pF	1322	R6135	T7H	3001054720000	4.7kΩ
548	C877	T6E	3101062720000	2700pF	1323	R6136	T7H	3001052030000	20kΩ
549	C878	T6F	3101062210000	220pF	1324	R6137	T7I	3001053030000	30kΩ
550	C879	T1G	3101080200010	2pF	1325	R6138	B8I	3001060000000	0Ω
551	C88	T7F	3110071040000	0.1uF	1326	R6139	T8H	3001055630000	56kΩ
552	C880	T6E	3101064730000	0.047uF	1327	R6140	T4I	3001060000000	0Ω
553	C883	B4I	3101052210010	220pF	1328	R701	T5I	3001055100010	51Ω
554	C885	B2F	3101082700010	27pF	1329	R703	T6G	3001052220010	2.2kΩ
555	C887	B5F	3101062210000	220pF	1330	R704	T6H	3001055610010	560Ω
556	C888	B2F	3101063300000	33pF	1331	R705	T6H	3001051030000	10kΩ
557	C889	B2F	3101062200010	22pF	1332	R707	B6H	3001051810010	180Ω
558	C89	T7F	3101051040010	0.1uF	1333	R708	B6H	3001054720000	4.7kΩ
559	C890	B3I	3101052210010	220pF	1334	R709	B6H	3001061030010	10kΩ
560	C891	T2I	3101051210000	120pF	1335	R710	B6H	3001068220000	8.2kΩ
561	C892	B5F	3101062210000	220pF	1336	R711	T5G	3001053300010	33Ω
562	C893	T1H	3101374710000	470pF	1337	R712	B6H	3001052710010	270Ω
563	C894	B4H	3101051830020	0.018uF	1338	R713	T5H	3001051040000	100kΩ
564	C895	B4I	3101052210010	220pF	1339	R714	B5H	3001051820000	1.8kΩ
565	C896	B3G	3101052210010	220pF	1340	R715	T5G	3001053300010	33Ω
566	C897	B3G	3101052210010	220pF	1341	R716	B5H	3001055620000	5.6kΩ
567	C898	B5C	3101052210010	220pF	1342	R717	T5G	3001053300010	33Ω
568	C899	T3J	3101051210000	120pF	1343	R718	B5H	3001055110000	510Ω
569	C9	T8G	3101050100030	1pF	1344	R719	T5H	3001053300010	33Ω
570	C90	T7F	3101051010030	100pF	1345	R720	T5H	3001053300010	33Ω
571	C900	T5C	3101061050020	1uF	1346	R721	T5H	3001053300010	33Ω
572	C901	T5C	3101061050020	1uF	1347	R724	T5I	3001060000000	0Ω
573	C902	T2E	3101062200010	22pF	1348	R725	T5G	3001053300010	33Ω
574	C905	T2A	3101061050020	1uF	1349	R727	T4H	3001064730000	47kΩ
575	C906	T2A	3101061050020	1uF	1350	R728	T4H	3001064730000	47kΩ
576	C907	T4B	3101051040010	0.1uF	1351	R802	B5E	3001061230000	12kΩ
577	C908	T5B	3101061050020	1uF	1352	R803	B5E	3001062210000	220Ω
578	C909	B2F	3101063310010	330pF	1353	R804	T4G	3001084790000	4.7Ω
579	C91	T6F	3110071040000	0.1uF	1354	R806	T4G	3001084790000	4.7Ω
580	C910	B4I	3101051020010	1000pF	1355	R807	T4F	3001084790000	4.7Ω
581	C911	T3A	3101051040010	0.1uF	1356	R808	B5E	3001061000000	10Ω
582	C912	T5C	3101072250100	2.2uF	1357	R809	B6E	3001068200000	82Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
583	C913	B2F	3101063300000	33pF	1358	R810	B6E	3001061010000	100Ω
584	C914	T4D	3101092260010	22uF	1359	R811	B5E	3001061830010	18kΩ
585	C915	T4C	3101082260020	22uF	1360	R812	B4G	3001084790000	4.7Ω
586	C916	T2E	3101063320000	3300pF	1361	R813	T4F	3001084790000	4.7Ω
587	C917	T5D	3101071060010	10uF	1362	R814	B6E	3001061010000	100Ω
588	C918	T5D	3101052200010	22pF	1363	R815	T1I	3001082730000	27kΩ
589	C919	T5C	3101072260000	22uF	1364	R816	T2J	3001072210000	220Ω
590	C920	T4C	3101061030010	0.01uF	1365	R817	T2J	3001072210000	220Ω
591	C921	T5C	3101051040010	0.1uF	1366	R818	T4F	3001084790000	4.7Ω
592	C922	T5C	3101055600000	56pF	1367	R819	T3I	3001078200000	82Ω
593	C923	B4D	3101061050020	1uF	1368	R821	B2I	3001113300000	33Ω
594	C924	B4D	3101061050020	1uF	1369	R822	T3J	3001060000000	0Ω
595	C925	B4D	3101061050020	1uF	1370	R823	T2J	3001061010000	100Ω
596	C926	B7D	3101071060010	10uF	1371	R824	T5E	3101064700000	47pF
597	C927	T4D	3101061040010	0.1uF	1372	R825	T3I	3001113300000	33Ω
598	C928	T5H	3101081060010	10uF	1373	R826	T6F	3001060100000	1Ω
599	C93	T7F	3101051010030	100pF	1374	R827	T6E	3001063910000	390Ω
600	C930	B1F	3101061830000	0.018uF	1375	R828	T6F	3001060100000	1Ω
601	C931	T1E	3101062700010	27pF	1376	R829	T6F	3001068200000	82Ω
602	C932	T5C	3101062250000	2.2uF	1377	R830	B5E	3001074700000	47Ω
603	C933	B2A	3101092260010	22uF	1378	R831	B4H	3001051020000	1kΩ
604	C934	B4D	3101062250000	2.2uF	1379	R835	T6E	3001068200000	82Ω
605	C935	B5D	3101061040010	0.1uF	1380	R837	B4I	3001050000000	0Ω
606	C936	T5D	3101051010030	100pF	1381	R838	B4I	3001053330000	33kΩ
607	C938	T4D	3101092260010	22uF	1382	R839	B4H	3001053320000	3.3kΩ
608	C94	T7F	3110071040000	0.1uF	1383	R841	B4H	3001053330000	33kΩ
609	C940	B1F	3101066800000	68pF	1384	R842	B4I	3001051230000	12kΩ
610	C942	T4B	3101053310020	330pF	1385	R843	T6F	3001061530010	15kΩ
611	C943	B1F	3101062700010	27pF	1386	R844	T6F	3001061030000	10kΩ
612	C944	B2B	3101051020010	1000pF	1387	R845	T6E	3001062030000	20kΩ
613	C945	B2A	3101054710010	470pF	1388	R846	T6E	3001061030000	10kΩ
614	C946	T5D	3101061050020	1uF	1389	R847	B4H	3001054730000	47kΩ
615	C947	T5B	3101051040010	0.1uF	1390	R849	B4I	3001052220010	2.2kΩ
616	C948	T4B	3101051040010	0.1uF	1391	R852	T2I	3001064710000	470Ω
617	C949	B2G	3101058200000	82pF	1392	R853	T2I	3001064710000	470Ω
618	C95	T7F	3101051030020	0.01uF	1393	R854	B4I	3001055630000	56kΩ
619	C950	T2D	3101051040010	0.1uF	1394	R855	B4F	3001085100000	51Ω
620	C951	T4C	3110992270000	220uF	1395	R856	B4F	3001085100000	51Ω
621	C952	T3C	3101061030010	0.01uF	1396	R857	B4I	3001050000000	0Ω
622	C953	B3G	3001051830000	18kΩ	1397	R858	B5F	3001069120000	9.1kΩ
623	C955	T3D	3101051040010	0.1uF	1398	R859	B5F	3001061020010	1kΩ
624	C956	T3D	3101081060010	10uF	1399	R860	B4F	3001084790000	4.7Ω
625	C957	T3D	3101081060010	10uF	1400	R861	T4F	3001084790000	4.7Ω
626	C958	T3D	3101051040010	0.1uF	1401	R862	B6E	3001065600000	56Ω
627	C959	B2G	3101061040010	0.1uF	1402	R863	B2I	3001050000000	0Ω
628	C96	T7F	3101051020010	1000pF	1403	R864	B3G	3001054740010	470kΩ
629	C961	B3A	3101061040010	0.1uF	1404	R865	B4H	3001053930000	39kΩ
630	C962	B6D	3101051050000	1uF	1405	R866	B4I	3001052220010	2.2kΩ
631	C963	B7D	3101061040010	0.1uF	1406	R867	B4G	3001058220000	8.2kΩ
632	C965	B7D	3101062250000	2.2uF	1407	R869	B4H	3001051020000	1kΩ
633	C966	T5B	3101061050020	1uF	1408	R870	B4H	3001051230000	12kΩ
634	C968	B3B	3101051040010	0.1uF	1409	R872	B4H	3001051840000	180kΩ
635	C969	B3B	3101051040010	0.1uF	1410	R874	B4I	3001051020000	1kΩ
636	C97	T8F	3101051030020	0.01uF	1411	R875	B4I	3001053330000	33kΩ
637	C978	T7D	3101051040010	0.1uF	1412	R876	B3G	3001055630000	56kΩ
638	C979	T6D	3101051040010	0.1uF	1413	R877	B5E	3001054730000	47kΩ
639	C98	T8F	3101051040010	0.1uF	1414	R880	B5E	3001074720010	4.7kΩ
640	C980	T2D	3101081060010	10uF	1415	R881	B5E	3001074720010	4.7kΩ
641	C981	T4D	3101081060010	10uF	1416	R882	B4I	3001051540000	150kΩ
642	C982	T7C	3101051040010	0.1uF	1417	R883	B3G	3001055630000	56kΩ
643	C983	T7D	3101051050000	1uF	1418	R884	B3G	3001051030000	10kΩ
644	C984	T7D	3101051020010	1000pF	1419	R885	B3G	3001051030000	10kΩ
645	C99	T8F	3101052710000	270pF	1420	R886	B3G	3001052240000	220kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
646	C997	T7C	3101062240030	0.22uF	1421	R887	B4I	3001058210000	820Ω
647	D100	T7F	3303030800020	Switching diode	1422	R889	B5C	3001050000000	0Ω
648	D101	B7E	3304010100220	Varactor	1423	R890	B4H	3001053320000	3.3kΩ
649	D102	B7E	3304010100220	Varactor	1424	R891	B3G	3001053320000	3.3kΩ
650	D103	B3A	3303240000000	Switching diode	1425	R892	B3I	3001058230000	82kΩ
651	D105	B7F	3304010100220	Varactor	1426	R894	B4I	3001050000000	0Ω
652	D106	B7F	3304010100220	Varactor	1427	R895	B4H	3001055630000	56kΩ
653	D107	B7G	3304010100220	Varactor	1428	R897	B2G	3001054740010	470kΩ
654	D108	B6G	3304010100220	Varactor	1429	R898	B2G	3001054740010	470kΩ
655	D109	B7G	3304010100220	Varactor	1430	R899	B2G	3001054740010	470kΩ
656	D110	B6G	3304010100220	Varactor	1431	R902	B3G	3001050000000	0Ω
657	D111	B7E	3304010100220	Varactor	1432	R904	B5C	3001050000000	0Ω
658	D112	B7E	3304010100220	Varactor	1433	R905	B5C	3001053330000	33kΩ
659	D113	B7F	3304010100220	Varactor	1434	R906	T4H	3001064730000	47kΩ
660	D116	B7E	3304010100220	Varactor	1435	R908	T4H	3001054720000	4.7kΩ
661	D117	B7E	3304010100220	Varactor	1436	R910	T6D	3001054720000	4.7kΩ
662	D121	B7G	3304010100220	Varactor	1437	R911	T5B	3001061030000	10kΩ
663	D122	B7G	3304010100220	Varactor	1438	R913	T6D	3001054720000	4.7kΩ
664	D125	B7G	3304010100220	Varactor	1439	R917	T5D	3001053340010	330kΩ
665	D126	B7G	3304010100220	Varactor	1440	R919	T5D	3001051540000	150kΩ
666	D127	T7E	3303030100010	Switching diode	1441	R924	B4D	3001061020010	1kΩ
667	D128	B4I	3303030100010	Switching diode	1442	R925	T5D	3001064720000	4.7kΩ
668	D129	B5C	3303030800020	Switching diode	1443	R929	B2A	3001051010000	100Ω
669	D230	B4C	3310240000000	ESD protection diode	1444	R930	B3A	3001051030000	10kΩ
670	D231	B4C	3310240000000	ESD protection diode	1445	R931	B3A	3001054730000	47kΩ
671	D232	B7D	3310240000000	ESD protection diode	1446	R932	B3A	3001052030000	20kΩ
672	D233	T2B	3310240000000	ESD protection diode	1447	R934	B3A	3001055130010	51kΩ
673	D234	T5C	3310240200000	ESD protection diode	1448	R937	B3B	3001054720000	4.7kΩ
674	D236	T6C	3310240200000	ESD protection diode	1449	R938	B3B	3001051030000	10kΩ
675	D237	T4B	3310990000090	ESD protection diode	1450	R940	B3B	3001052230010	22kΩ
676	D238	T2C	3310240000000	ESD protection diode	1451	R941	B3B	3001051020010	1kΩ
677	D239	T5B	3310240200000	ESD protection diode	1452	R942	B3B	3001054720000	4.7kΩ
678	D240	T2A	3310240000000	ESD protection diode	1453	R943	B2A	3001064730000	47kΩ
679	D402	T2C	3310240000000	ESD protection diode	1454	R944	B3B	3001052230010	22kΩ
680	D403	T2A	3310240000000	ESD protection diode	1455	R945	B3B	3001051030000	10kΩ
681	D404	T2B	3310240000000	ESD protection diode	1456	R946	B3A	3001071020000	1kΩ
682	D405	T2B	3310240000000	ESD protection diode	1457	R947	B3B	3001051020010	1kΩ
683	D406	T2B	3310240000000	ESD protection diode	1458	R948	B2A	3001051010000	100Ω
684	D407	T8B	3399040600010	ESD protection diode	1459	R949	B2A	3001054730000	47kΩ
685	D408	B8C	3399040600010	ESD protection diode	1460	R950	T3C	3001051030000	10kΩ
686	D409	T2C	3310240000040	ESD protection diode	1461	R951	B3A	3001053330000	33kΩ
687	D410	B2B	3310240000040	ESD protection diode	1462	R952	B3A	3001053330000	33kΩ
688	D450	T2C	3699037000010	USB protection IC	1463	R953	B3D	3001061000000	10Ω
689	D6100	T4J	3399030000010	PIN diode	1464	R954	B6D	3001061020010	1kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
690	D6101	T4J	3304010100890	Varactor	1465	R955	B2A	3001052030000	20kΩ
691	D6102	T4J	3304010100890	Varactor	1466	R956	B2A	3001051840000	180kΩ
692	D6103	T6J	3304010100890	Varactor	1467	R957	B2A	3001051020010	1kΩ
693	D6104	T6J	3304010100890	Varactor	1468	R958	B3D	3001066810000	680Ω
694	D6105	T5J	3399990004910	Limiter diode	1469	R959	B2A	3001056830000	68kΩ
695	D6106	B7J	3699019000000	Mixer IC	1470	R961	B3D	3001083310010	330Ω
696	D6204	B3A	3303030100010	Switching diode	1471	R962	T3C	3001060000000	0Ω
697	D701	B6G	3304010100220	Varactor	1472	R963	T3C	3001060000000	0Ω
698	D702	B5H	3304010100180	Varactor	1473	R964	T3C	3001052220010	2.2kΩ
699	D801	T1H	3303990000020	Switching diode	1474	R965	T3C	3001060000000	0Ω
700	D802	T2I	3303990000020	Switching diode	1475	R966	B2D	3001161510010	150Ω
701	D803	T3J	3303030300000	Schottky diode	1476	R968	T2C	3001052220000	2.2kΩ
702	D804	T2I	3303030300000	Schottky diode	1477	R969	T2C	3001064730000	47kΩ
703	D805	B4H	3302030500030	Zener diode	1478	R970	T2C	3001061020010	1kΩ
704	D900	T2D	3399100000010	TVS diode	1479	R971	T3C	3099052741000	2.74kΩ
705	D902	T4C	3301100300030	Rectifier diode	1480	R972	T3C	3001062220000	2.2kΩ
706	D910	B2A	3302030500010	Zener diode	1481	R974	B3A	3001062720000	2.7kΩ
707	D911	B2A	3302030500010	Zener diode	1482	R975	B3A	3001052030000	20kΩ
708	D914	B3A	3303240000000	Switching diode	1483	R976	T7D	3001050000000	0Ω
709	D915	T3C	3303010500290	Switching diode	1484	R978	B3A	3001052720000	2.7kΩ
710	D916	T2A	3303010500090	Switching diode	1485	R979	T6C	3001051030000	10kΩ
711	D917	T3C	3302030500030	Zener diode	1486	R980	T6C	3001051040000	100kΩ
712	D918	T3C	3302030500030	Zener diode	1487	R981	B3A	3001051030000	10kΩ
713	D919	T2A	3303010500090	Switching diode	1488	R982	T3C	3001051040000	100kΩ
714	D920	B2B	3303240000000	Switching diode	1489	R983	T6D	3001050000000	0Ω
715	D921	T2A	3302030500030	Zener diode	1490	R984	B3A	3001052210000	220Ω
716	D922	T7C	3303010500090	Switching diode	1491	R985	T6C	3001050000000	0Ω
717	F900	B2B	4002000000340	Fuse	1492	R986	T6D	3001050000000	0Ω
718	J400	T8C	5201020200030	Board-to-board connector	1493	R987	T7C	3001050000000	0Ω
719	J404	B8C	5206040200010	FFC connector	1494	RN230	B6C	3005051010010	100Ω
720	L1	B7F	3213212332000	3.3uH	1495	RN500	B7B	3005051010010	100Ω
721	L103	B7E	3217607471000	470nH	1496	RT804	B3G	3003061040000	100kΩ
722	L105	B7E	3237199080000	8nH	1497	S1		6202720000010	PA heat sink pad
723	L106	B7E	3214307270010	27nH	1498	T6100	B7J	3259999999080	Transformer
724	L107	B7E	3217607471000	470nH	1499	T6101	B8J	3259999999080	Transformer
725	L108	B6E	3217607471000	470nH	1500	U100	T8F	3604019000000	PLL IC
726	L110	B7F	3217607471000	470nH	1501	U101	T7F	3616059000000	Switch IC
727	L112	B6E	3217607471000	470nH	1502	U102	T7E	3616059000000	Switch IC
728	L114	B7F	3237199080000	8nH	1503	U201	B5B	3602017000030	Audio amplification IC
729	L115	B7F	3214307270010	27nH	1504	U231	B6C	3613010000000	Baseband IC
730	L116	B7E	3217607471000	470nH	1505	U232	T5B	3612024000020	Memory
731	L117	B7G	3217607471000	470nH	1506	U233	T6A	3612016000000	Memory
732	L118	B8G	3217607471000	470nH	1507	U235	B5C	3605010000020	Operational amplifier
733	L121	B7F	3217607471000	470nH	1508	U236	B4C	3605010000020	Operational amplifier
734	L122	T8G	3210306150000	15nH	1509	U237	B6B	3616010000000	Switch IC
735	L123	T7G	3210306150000	15nH	1510	U238	B6A	3605008005070	Operational amplifier
736	L124	B7G	3237199120000	12.5nH	1511	U302	T6B	3610010000010	MCU
737	L126	B7G	3214307390000	39nH	1512	U326	T3B	3625999000060	GPS module
738	L127	B7G	3217607471000	470nH	1513	U327	T6D	3607010000400	Logic IC
739	L128	T8G	3210306150000	15nH	1514	U328	B2C	3607010000400	Logic IC
740	L129	B6G	3217607471000	470nH	1515	U401	B2B	3616010000150	Switch IC
741	L131	T7E	3221506601000	Ferrite bead	1516	U500	B7C	3606010000010	D/A conversion IC
742	L132	T7E	3210306270000	27nH	1517	U6000	B4H	3605002057090	Operational amplifier
743	L133	B6G	3217607471000	470nH	1518	U701	T5H	3603999000000	IF IC
744	L134	B7G	3217607471000	470nH	1519	U702	T4I	3608006000000	Power management IC
745	L135	T7E	3210306270000	27nH	1520	U703	T4H	3608015000060	Power management IC

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
746	L136	T6E	3210306150000	15nH	1521	U801	B4H	3605026000020	Operational amplifier
747	L137	B7G	3237199120000	12.5nH	1522	U802	B4H	3605002054590	Operational amplifier
748	L138	T7E	3210306270000	27nH	1523	U804	B3G	3605008005070	Operational amplifier
749	L139	B7G	3210107330000	33nH	1524	U900	T5C	3608015000180	Power management IC
750	L140	B7G	3217607471000	470nH	1525	U901	T2A	3608015000180	Power management IC
751	L147	T7B	3210406471000	470nH	1526	U902	T5C	3608010000350	Power management IC
752	L151	T7B	3210406471000	470nH	1527	U903	T5B	3608015000170	Power management IC
753	L152	B7F	3221506601000	Ferrite bead	1528	U905	B4D	3608015000060	Power management IC
754	L154	T8F	3213306561000	0.56uH	1529	U907	T6D	3626999000020	Reset IC
755	L156	T7F	3213212332000	3.3uH	1530	U909	B4D	3608015000180	Power management IC
756	L162	T7G	3210306270000	27nH	1531	U910	T7C	3626015000010	Reset IC
757	L166	T7G	3210306270000	27nH	1532	U914	T3C	3605008005070	Operational amplifier
758	L167	B8G	3210306270000	27nH	1533	U915	B7D	3608015000060	Power management IC
759	L168	B8E	3210306270000	27nH	1534	U917	B2A	3609006003050	Reset IC
760	L169	T8G	3210306270000	27nH	1535	U918	B7D	3608015000210	Power management IC
761	L171	T7G	3210306180000	18nH	1536	U919	T5D	3608010006230	Power management IC
762	L173	T7G	3210306150000	15nH	1537	W321	T3A	4411100002000	IPX RF connector
763	L2	T7E	3210306150000	15nH	1538	X100	T8E	3701019250030	TCXO
764	L232	B4C	3221506300000	Ferrite bead	1539	X302	T7B	3701019250040	TCXO
765	L233	B5C	3211506101000	Ferrite bead	1540	X375	T7B	3701327610060	Crystal
766	L234	B5D	3211506101000	Ferrite bead	1541	Z6100	T8I	3802733540030	Crystal filter
767	L235	B5D	3211506101000	Ferrite bead	1542	/	/	3217106829010	8.2nH
768	L321	T3A	3212106390000	39nH	1543	/	/	3217107221010	220nH
769	L322	T3A	3221506300000	Ferrite bead	1544	/	/	3504990000010	PA MOSFET
770	L4	B8F	3217607471000	470nH	1545	/	/	3604019000000	PLL IC
771	L401	B7A	3221506300000	Ferrite bead	1546	/	/	3605002054590	Operational amplifier
772	L402	B7A	3221506300000	Ferrite bead	1547	/	/	41MD7801000L0	PCB main board
773	L403	B7A	3221506300000	Ferrite bead	1548	/	/	1616100001420	Built-in software
774	L404	B7A	3221506300000	Ferrite bead	1549	/	/	9830000000001	Voice encoding/decoding software
775	L405	B7A	3221506300000	Ferrite bead	/	/	/	/	/

UHF2 (450 – 520 MHz)

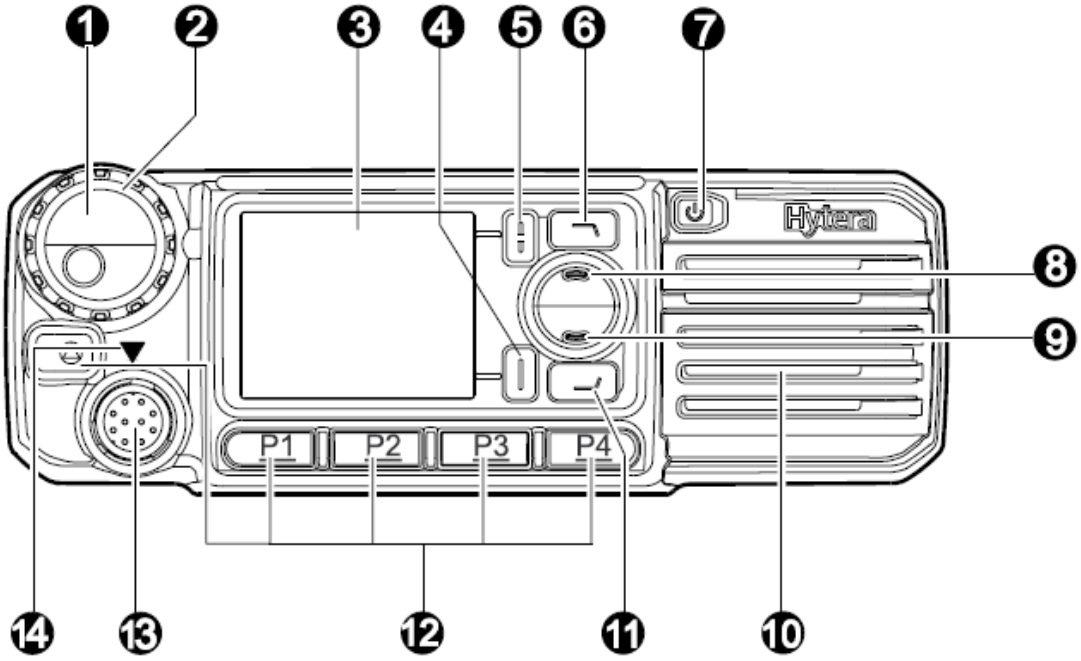
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1. Product Controls

Front Panel

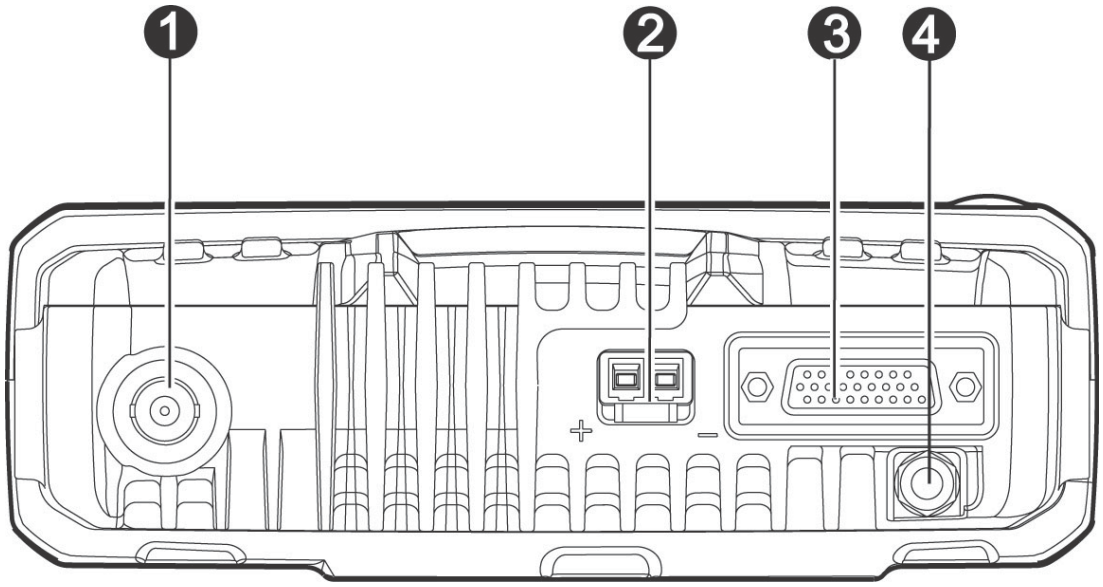


No.	Part Name	No.	Part Name
1	Volume Control/Group Call Selector Knob	8	Up Key
2	LED Indicator	9	Down Key
3	LCD Display	10	Speaker
4	OK/Menu Key	11	Redial/Answer/Call Key
5	Back/Group Call Management Key	12	Programmable Keys
6	Dial-back/End/Home Screen Key	13	Microphone Connector
7	Power On/Off Key	14	Microphone Installation Index

Note

The above-mentioned product control is based on the mobile radio in the trunking mode. In the conventional mode, No. 1 serves as Volume Control / Channel Selector Knob, and No. 6 & No.11 serve as the Programmable Keys.

Rear Panel



No.	Part Name	No.	Part Name
1	RF Antenna Connector	3	Accessory Connector
2	Power Inlet	4	GPS Antenna Connector

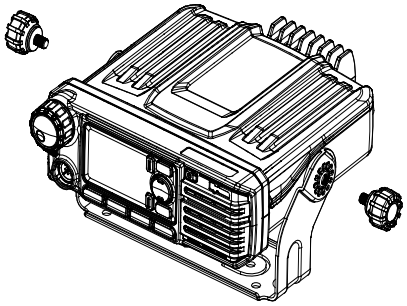
Note

The GPS antenna interface is only available for MD78XG.

2. Disassembly and Reassembly

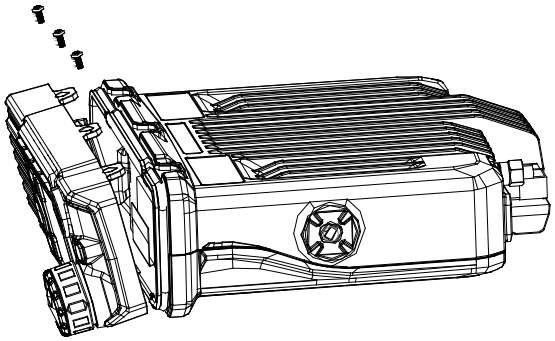
2.1 Disassembling the Radio

Step 1 Turn off the radio and remove the power cord, and loosen the two screws to remove the radio.

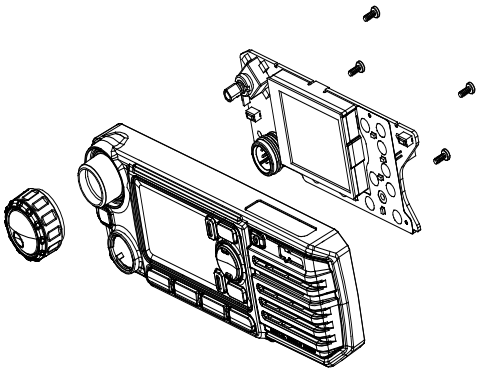


Step 2 Remove the antenna.

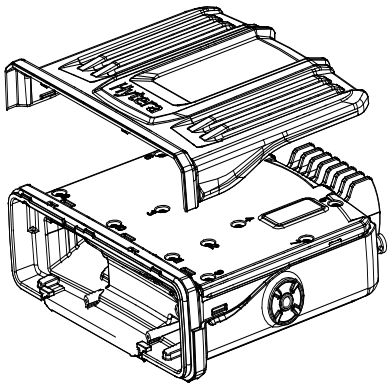
Step 3 Loosen the three screws to remove the front panel. Then remove the FFC.



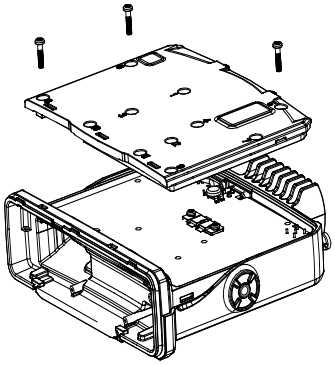
Step 4 Detach the volume control knob and loosen the four screws. Then remove the PCB from the control panel.



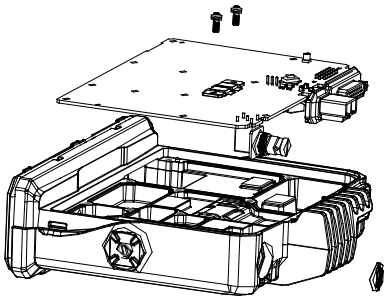
Step 5 Undo the clips on both sides of the radio, and then remove the rear cover.



Step 6 Loosen the eleven screws to remove the upper shield cover.



Step 7 Loosen the screw fixing the antenna connector and two screws fixing the PA module. Then take the PCB out.

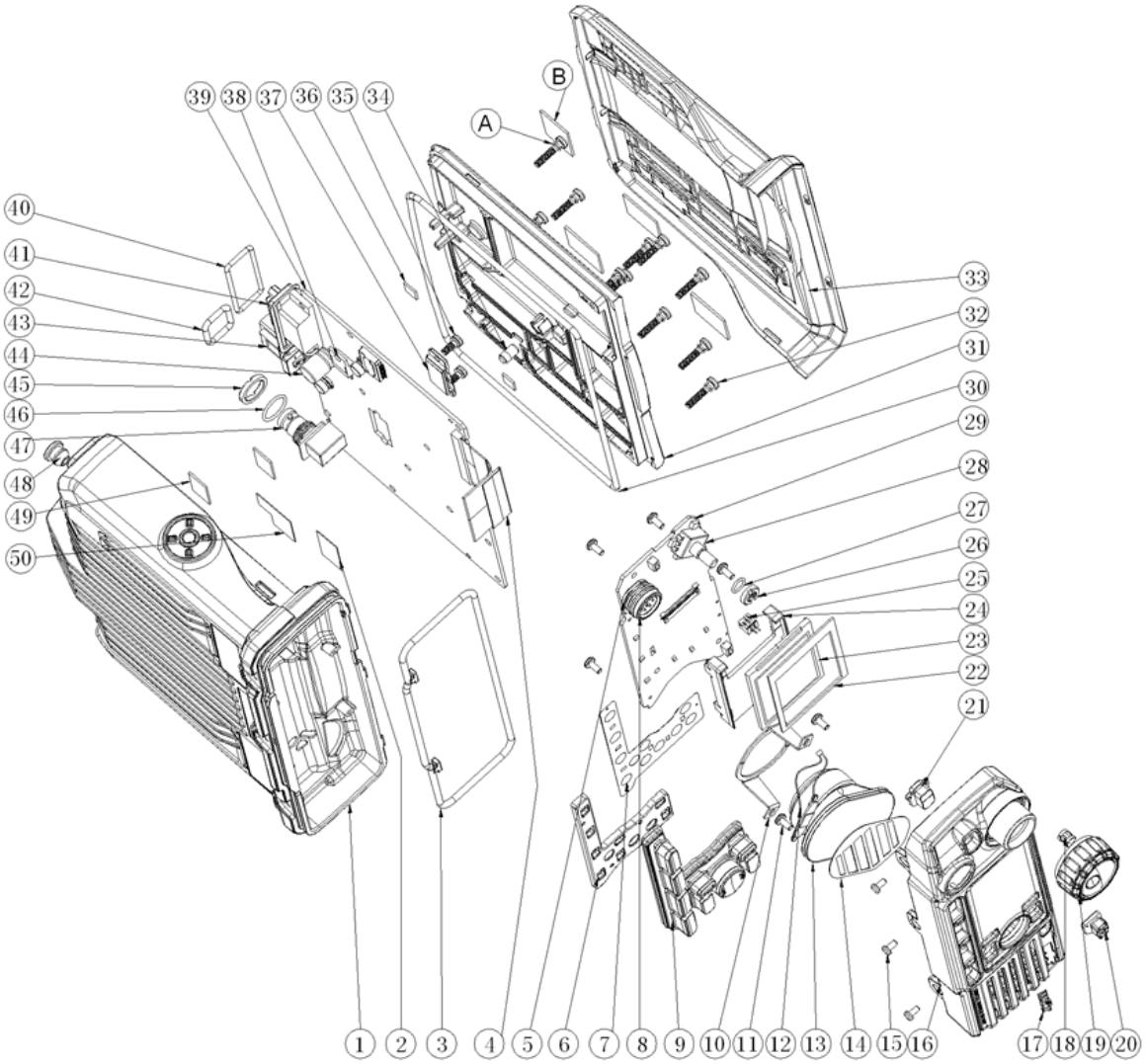


2.2 Reassembling the Radio

To reassemble the radio, perform the above steps in a reverse way.

3. Exploded View and Packing Guide

3.1 Exploded View



Part list:

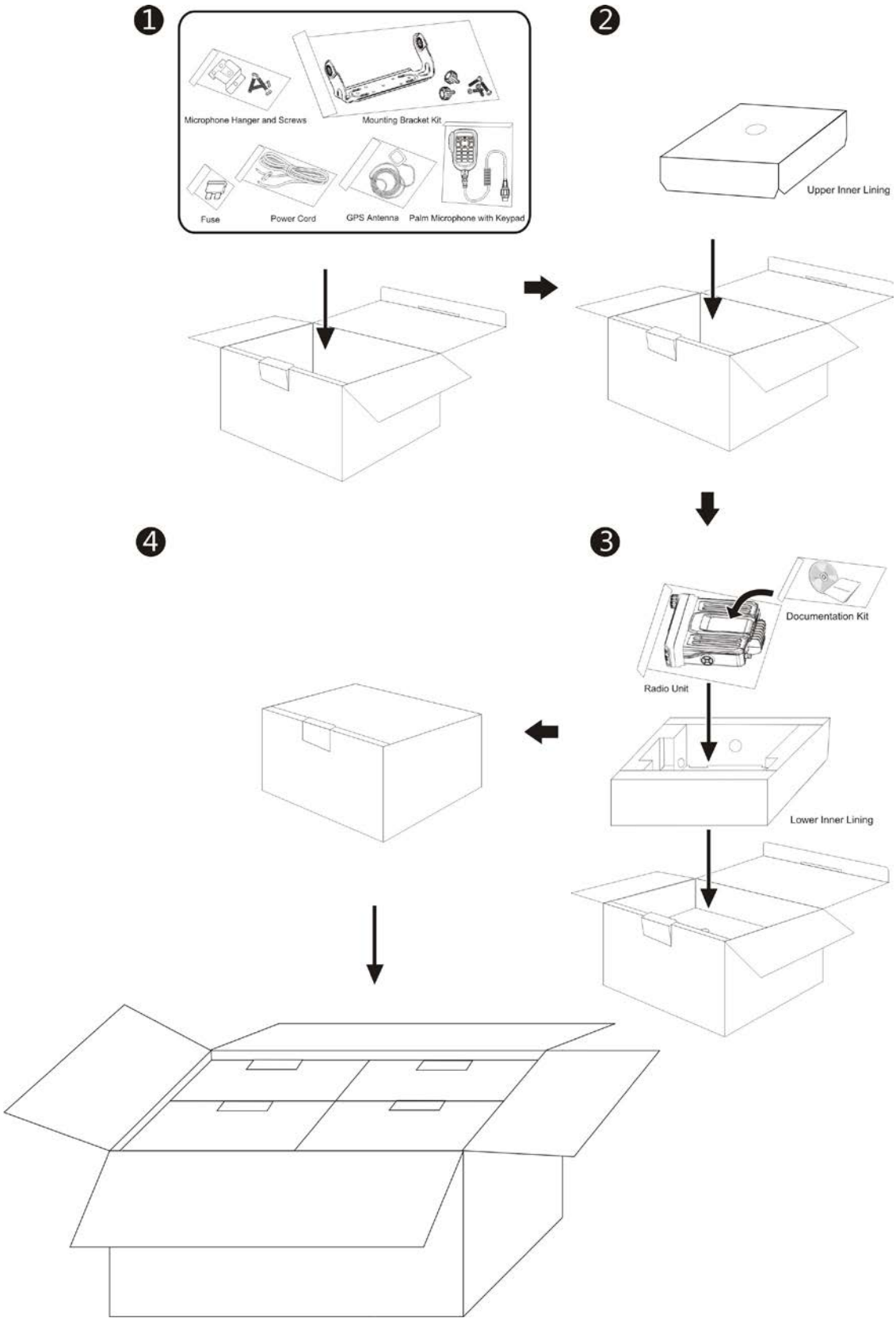
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
1	6300109000000	Aluminum chassis	1	27	6100334000000	O-ring for encoder switch	1
2	7500358000000	Heat sink pad	1	28	4399030000020	Rotary switch	1
3	6100492101000	Waterproof ring for front case	1	29	41078001000J0	PCB for control panel	1
4	4210090000200	Signal cable	1	30	6100533101000	Waterproof ring for aluminum chassis	1
5	5208010100010	Connector (male)	1	31	6300126000000	Upper cover of the aluminum chassis	1
6	6001079000000	Light-guide plate for keys	1	32	7103015000000	Machine screw	11
7	7300048000000	Metal dome	1	33	6001080000000	Plastic upper cover	1
8	6100408001000	Waterproof ring for microphone jack	1	34	6100496000000	Conductive silicone rubber for main board	1
9	6100488000000	P+R front panel keys	1	35	7103008000400	Machine screw	2
10	6201893000000	Speaker fixing sheet	1	36	7500272000000	Heat sink pad	2
11	7102606021000	Self-tapping screw	6	37	/	Semi-finished PA with heat sink pad	1

No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
12	4210080000700	Speaker cable (with 2-Pin plug)	1	38	3414999000020	PNP transistor	1
13	5001210000390	Speaker	1	39	/	Main PCB	1
14	7400297000000	Speaker felt	1	40	6100532100000	D_SUB waterproof ring	1
15	7102505000110	Machine screw	3	41	5208026100000	Jack	1
16	6001076000010	Front case for control panel	1	42	6100530100000	Waterproof ring for power socket	1
17	860P580600100	Logo	1	43	5205002100110	Power socket (male)	1
18	6201739000000	Inner lining for knob	1	44	3103994770150	Electrolytic capacitor	1
19	6000876000000	Encoder knob	1	45	7212002500000	Nut	1
20	6100493000000	Power on/off key	1	46	6100531100000	Waterproof ring for antenna connector	1
21	6100404000000	Emergency key	1	47	4401000009000	BNC RF connector	1
22	7500344000000	PORON pad	1	48	6100494000000	GPS soft stopple	1
23	5130000000040	TFT LCD 2.0" TFT	1	49	7500159000100	Thermal conductive silicone rubber	2
24	6001078000000	LCD bracket	1	50	7500357000000	Heat sink pad	1
25	5202002100270	Board-to-wire connector	1	A	6100574100000	O_ring	11
26	7207003700000	Nut	1	B	7500344000000	PORON pad	1

Note

Parts that are not marked with Part No. may vary with the radio frequency band.

3.2 Packing Guide



4. Specifications and Blind Spot

4.1 Specifications

General	
Frequency Range	450 – 520 MHz
Channel Capacity	1024
Group Capacity	64 (each with a maximum of 16 channels)
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz
Operating Voltage	13.6V±15% DC
Current Drain	● Standby: <0.6 A ● Receive: <2.0 A ● Transmit: 5 W: <5 A; 25 W: <8 A, 45 W: <12 A
Frequency Stability	±1.5 ppm
Antenna Impedance	50 Ω
Dimensions (H×W×D)	60 mm × 174 mm × 200 mm (2.4 inch × 6.9 inch × 7.9 inch)
Weight	1.7 kg (3.75 lbs)
LCD Display	220*176 pixels, 262000 colors, 2.0-inch, 4 rows
Transmitter	
Power Output	● Low: 5 – 25 W ● High: 5 – 45 W
Conducted/Radiated Emission	● -36 dBm<1 GHz ● -30 dBm>1 GHz
FM Modulation	● 11K0F3E@12.5 kHz ● 14K0F3E@20 kHz ● 16K0F3E@25 kHz
4FSK Digital Modulation	● 12.5kHz (data only): 7K60FXD ● 12.5kHz (data and voice): 7K60FXW

Modulation Limit	● ±2.5 kHz@12.5 kHz ● ±4.0 kHz@20 kHz ● ±5.0 kHz@25 kHz
FM Hum and Noise	● 40dB@12.5kHz ● 43 dB@20 kHz ● 45 dB@25 kHz
Adjacent Channel Power	● 60 dB@12.5 kHz ● 70 dB@20/25 kHz
Audio Response	+1 dB to -3 dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE++ or SELP
Digital Protocol	ETSI-TS102 361-1, -2, -3
Receiver	
Sensitivity	Analog: ● 0.3 μV (12 dB SINAD) ● 0.22 μV (Typical) (12 dB SINAD) ● 0.4 μV (20 dB SINAD) Digital: ● 0.3 μV /BER5%
Adjacent Channel Selectivity	● TIA-603: 65 dB@12.5 kHz/75 dB@20/25 kHz ● ETSI: 60 dB@12.5 kHz/75 dB@20/25 kHz
Intermodulation	● TIA-603: 75 dB@12.5/20/25 kHz ● ETSI: 70 dB@12.5/20/25 kHz
Spurious Response Rejection	● TIA-603: 75 dB@12.5/20/25 kHz ● ETSI: 70 dB@12.5/20/25 kHz
Blocking	● TIA-603: 90 dB ● ETSI: 84 dB
Hum and Noise	● 40 dB@12.5 kHz

	● 43 dB@20 kHz ● 45 dB@25 kHz
Rated Audio Power	● Internal (20 Ω load): 3 W ● External (8 Ω load): 7.5 W
Max. Audio Power	● Internal (20 Ω load): 8 W ● External (8 Ω load): 20 W
Rated Audio Distortion	≤ 3%
Audio Response	+1 dB to -3 dB
Conducted Spurious Emission	< -57 dBm
Environment	
Operating Temperature	-30℃ to +60℃
Storage Temperature	-40℃ to +85℃
ESD	IEC 61000-4-2 (level4) ±8 kV (contact) ±15 kV (air)
American Military Standard	MIL-STD-810 C/D/E/F/G
Dust & Water Protection	IP54
Humidity	Per MIL-STD-810 C/D/E/F/G Standards
Shock and Vibration	Per MIL-STD-810 C/D/E/F/G Standards
GPS (for MD780XG only)	
Accuracy specs are for long-term tracking (95th percentile values>5 satellites visible at a nominal -130dBm signal strength).	
TTFF (Time To First Fix) Cold Start	< 60s

TTFF (Time To First Fix) Hot Start	<10s
Horizontal Accuracy	<10 m

Note

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

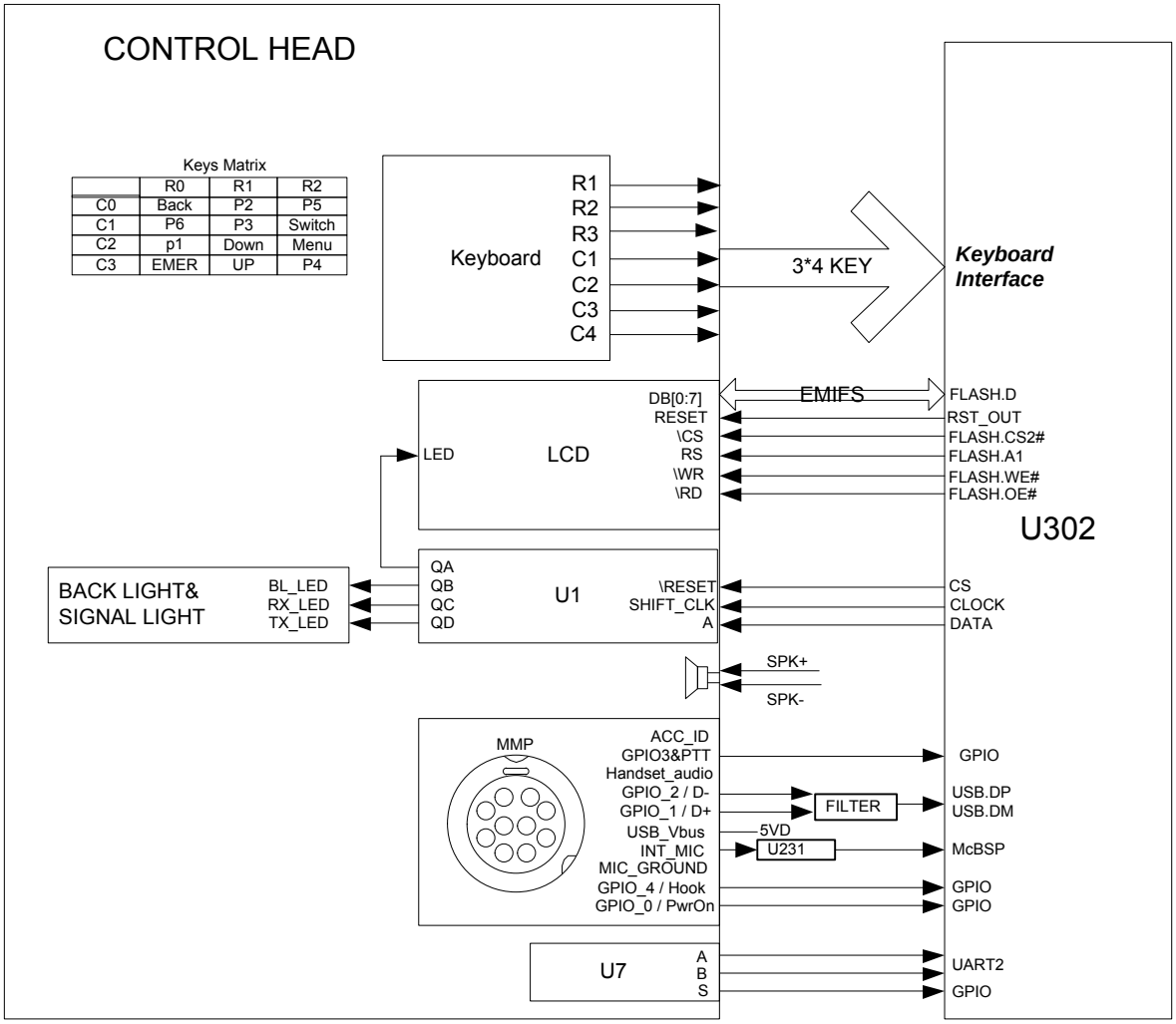
4.2 Blind Spot

No.	Blind Spot (MHz)	No.	Blind Spot (MHz)
1	460.8	5	450
2	480	6	468
3	499.2	7	486
4	518.4	8	504

5. Circuit Description

5.1 Front Panel

Front panel includes components such as power supply, keys, LCD, LED indicators, backlight, MMC interface and volume control knob. The function diagram is shown below.



Power Supply

The power supply of the main board powers the front panel via U902 (5 V), and serves as the power supply for LED indicator, backlight and USB devices. Then the power is further fed to U5, so as to power the LCD module and U1 (serial-to-parallel converter IC).

Keys

The front panel includes 12 keys, each of which has different functions in different operation mode. The identifications of each key on the front panel are realized by the 3*4 matrix keyboard.

Key	Conventional Mode	Trunking Mode
Programmable Keys	S2, S3, S7, S8, S9, S10, and	S3, S7, S9, S10, and S12

Key	Conventional Mode	Trunking Mode
	S12	
Navigation Key	S5 and S11	
OK/Menu Key	S4	
Back/Group Call Management Key	S6	
Power On/Off Key	S1	
Dial-back/End/Home Screen Key	/	S2
Redial/Answer/Call Key	/	S8

LCD

The front panel adopts TFT LCD to transfer data to U302 via the EMIFS data bus. The control signals include read/write enable signal, memory chip select signal, LCD chip select signal and reset signal, each of which is pulled up by R36, R35, R34, R33 and R6 respectively. The LCD module is powered by U5 which converts 5 V into 3.3 V.

LED Indicator and Backlight

The LED enable signal is fed to the serial-to-parallel converter IC (U1), and then is output by U302. RX status is indicated by green LED, and TX status by red LED. Backlight is activated upon any key press.

The red and green LEDs in series are powered by U902 (5 V) and controlled by Q2 and Q3. The backlight is also powered by U902 (5 V) and controlled by Q1. Control signals are output via U1.

MMC

For details, please refer to *Interface Definition.*

Audio Output

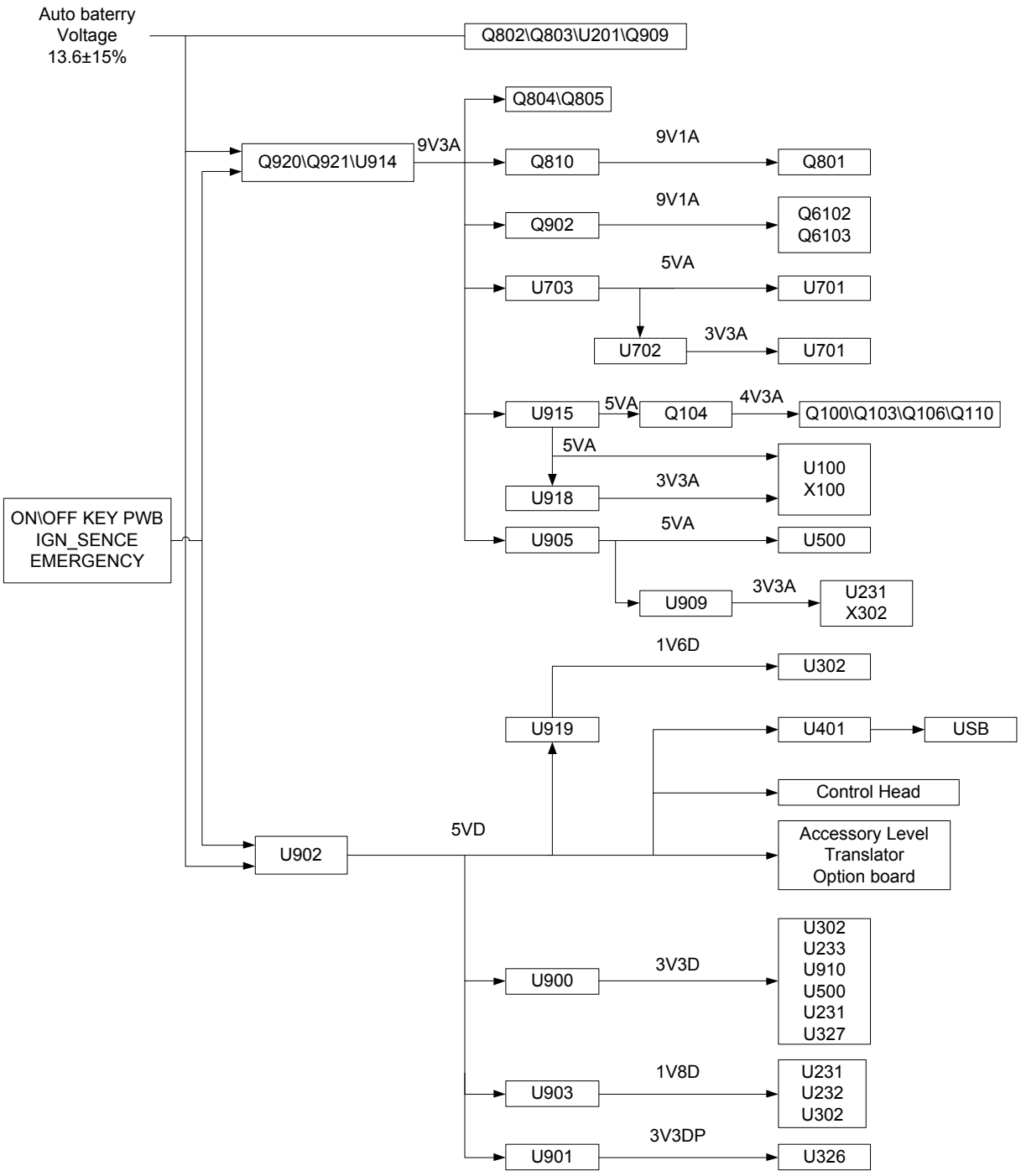
The front panel provides two audio outputs: Handset_audio and Internal_audio (SPK±). Handset_audio is the external output of received audio via MMC interface, while Internal_audio (SPK±) is connected to the internal speaker.

Volume Control

The volume control is facilitated by the rotary encoder switch (U7), which generates signals to be fed to U302 through GPIO17 and GPIO18 for volume adjustment.

5.2 Baseband

5.2.1 Power Supply Module



Both the baseband control IC and the RF section can convert the supplied voltage to an appropriate one via the voltage converter.

- Supply for RF: U914, Q920, and Q921 supply power for the RF section by high current PNP transistor and comparator, which can work as Low Dropout Regulator (LDR).
- Supply for FGU: U918 and U915 supply 3.3V and 5V respectively to U100.

- Supply for Baseband: The processor U302 is supplied by 3.3 V (U900), 1.8 V (U903) and 1.6 V (U919); the memory is supplied by 3.3 V (U900) and 1.8 V (U903) respectively; the audio processor IC (U231) is supplied by 3.3 V (U905&U909&U900) and 1.8 V (U903); the DAC (U500) is supplied by 5 V (U905) and 3.3 V (U900).
- EXT_SWB+: It is supplied by 13.6 V (Q909).

5.2.2 Control Module

Power On/Off

The mobile radio can be powered on/off through any of the following methods:

- Power On/Off Key

  The mobile radio is turned on via the **Power On/Off** key. As this key is pressed, R944 becomes grounded and Q910 is on. Then Q905 outputs high-level signal, causing U902 and Q920 to start working. Afterwards, the processor (U302) executes user routines to maintain a high-level power control signal (PWR_CTR).In this case, the radio starts to work properly after the **Power On/Off** key is released.

  The mobile radio is turned off via the **Power On/Off** key. After this key is pressed, LQ910 is on and a low-level signal (PWB) to power off the radio is detected by U302, which then controls PWR_CTRL to output low level. Afterwards, the radio becomes powered off.

- Ignition Sense

  The mobile radio can be turned on when ignition is sensed. When the voltage of ignition signal exceeds 7 V, Q1 will be turned on by charging of C933, R955 and R956. As a result, the PNP transistor of Q905 will be further turned on to power the mobile radio. Meanwhile, Q401 will also be turned on, and U302 will identify ignition signals by detecting the signal from Q401; afterwards, the level PWR_CTRL is generated by the processor.

- Emergency

  When the emergency alarm pin is at low level, R940 is grounded, and Q906 is turned on to supply power for the mobile radio. Meanwhile, Q908 is also turned on and the low level is detected from U302. At this time, if the mobile radio is off, the PWR_CTRL signal will be output to power on the mobile radio and the emergency signal will be output. However, if the mobile radio is already on, the emergency alarm pin will be at lower level and only the emergency signal will be output.

Power-on process:

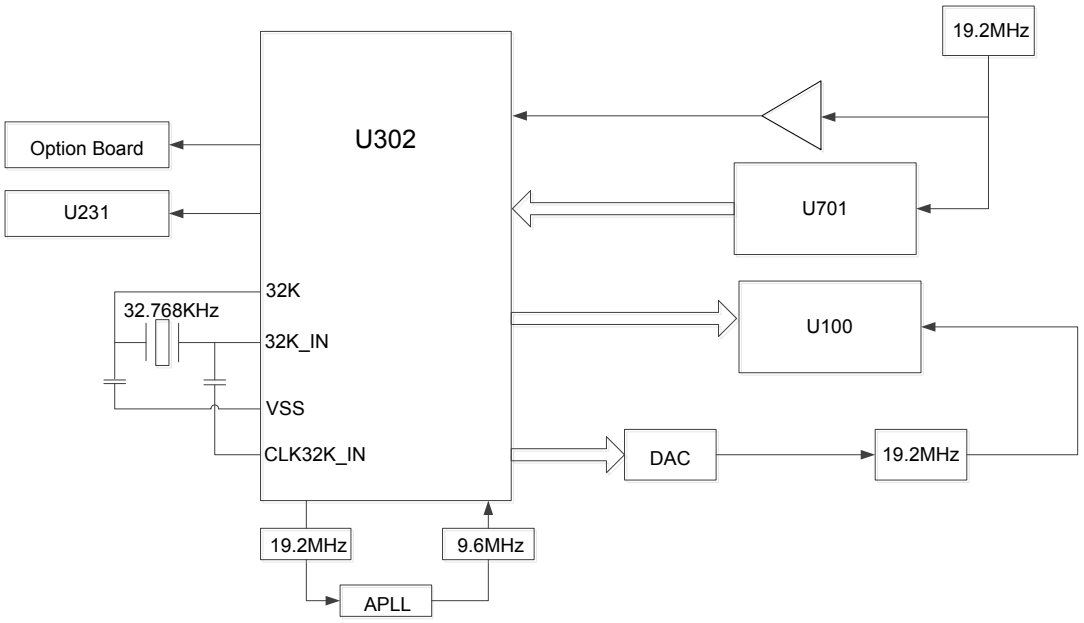
Step 1 Power on the mobile radio using one of the three methods (**Power On/Off** key, Ignition Sense, or Emergency);

Step 2 U917 generates reset signal and remains low level for 1.25 seconds, allowing the processor (U302) to get started.

Step 3 Power-on signal is sent to the processor (U302).

Step 4 After receiving the signal, the processor (U302) generates the level of PWR_CTRL. Then the power-up procedures are completed.

Clock



- Input Clock

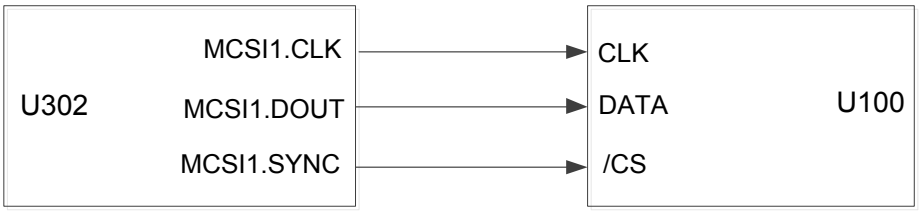
  The 32K clock provided by X375 is mainly used for timing and sleeping of the mobile radio. Its frequency (32.768 kHz) is divided by U302 (32768 times in all) to 1Hz for counting seconds. The system clock (19.2MHz) is generated by an external crystal oscillator.

- Output Clock

  The baseband outputs clock signals to U231, U100 and Option Board respectively.

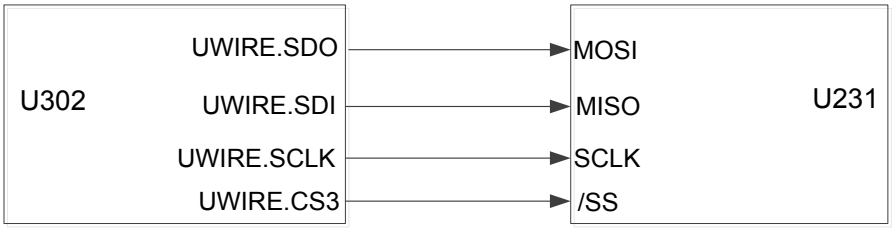
Interface Distribution

- MCSI Interface



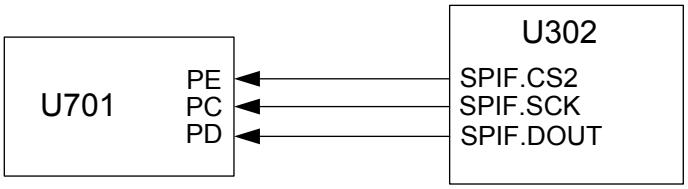
When U302 is communicating with U100, it works in Master Mode with clock frequency of up to 9.6 MHz. U100 uses MCSI1.CLK as the clock, MCSI1.DOUT as data cable to configure its register, and MCSI1.SYNC as chip select signal.

- MICROWIRE Interface



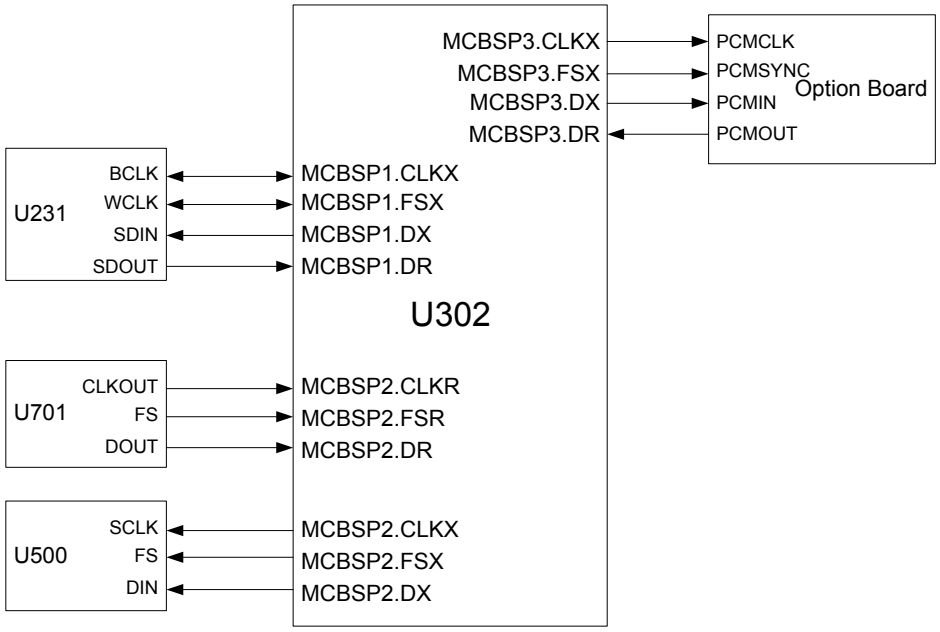
The MICROWIRE interface can accommodate four external devices at most, generally transmitting control and status messages of external devices, and reading data from ROM. Its maximum clock frequency is a quarter of system clock frequency. In this case, MICROWIRE is used to configure or read from the audio processor U231 and requires chip select signal CS3.

- Serial peripheral interface (SPI)



SPI of the processor U302 operates in Master mode, and it is controlled by MPU or DMA. In Master Mode, U302 can provide four chip select signals, of which CS2 is used to control the Intermediate Frequency (IF) digital processor U701.

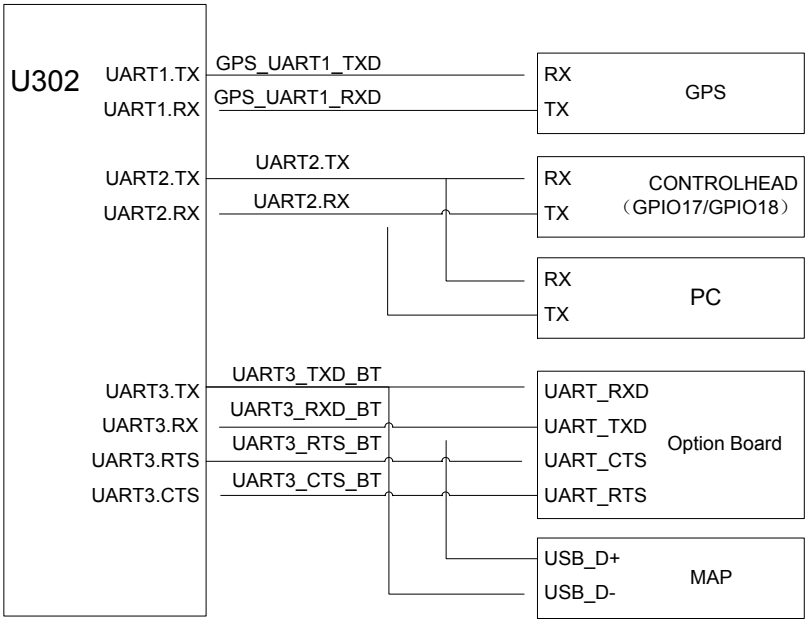
- Serial Synchronous Interface (SSI)



U302 provides three MCBSP interfaces including MCBSP1, MCBSP2 and MCBSP3, which are compatible with various interfaces.

- MCBSP1 is connected to the interface I2C of audio processor U231, to realize two-way transmission of digital voice and data.
- MCBSP2 uses independent clock and frame synchronization for transmission and reception. The SSI of U701 is connected to the RX end of MCBSP2 for U302. U500 is connected to the TX end of MCBSP2. In this case, U302 works in Master Mode.
- MCBSP3 is connected to the Option Board interface for voice and data transmission.

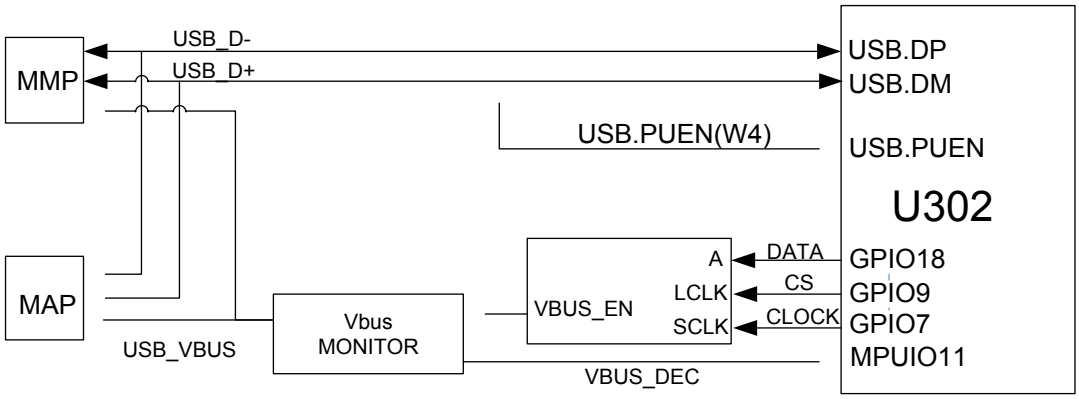
- UART Interface



Processor U302 provides three UART interfaces, which are used to communicate with different external devices.

- UART1 is used for communication with GPS module.
- UART2 is used for communication with front panel (GPIO17 and GPIO18).
- UART3 is used for communication with the Option Board and accessory connector.

- USB Interface



The mobile radio provides two USB interfaces, which are connected to the same USB signal port of the processor U302.

- Mobile Accessory Connector (MAC)

Mobile accessory connector contains audio interface, programmable I/O port, serial port, USB port, accessory identifier port and etc, which are applied for further development. For details, see 7 Interface Definition.

- Option Board Interface

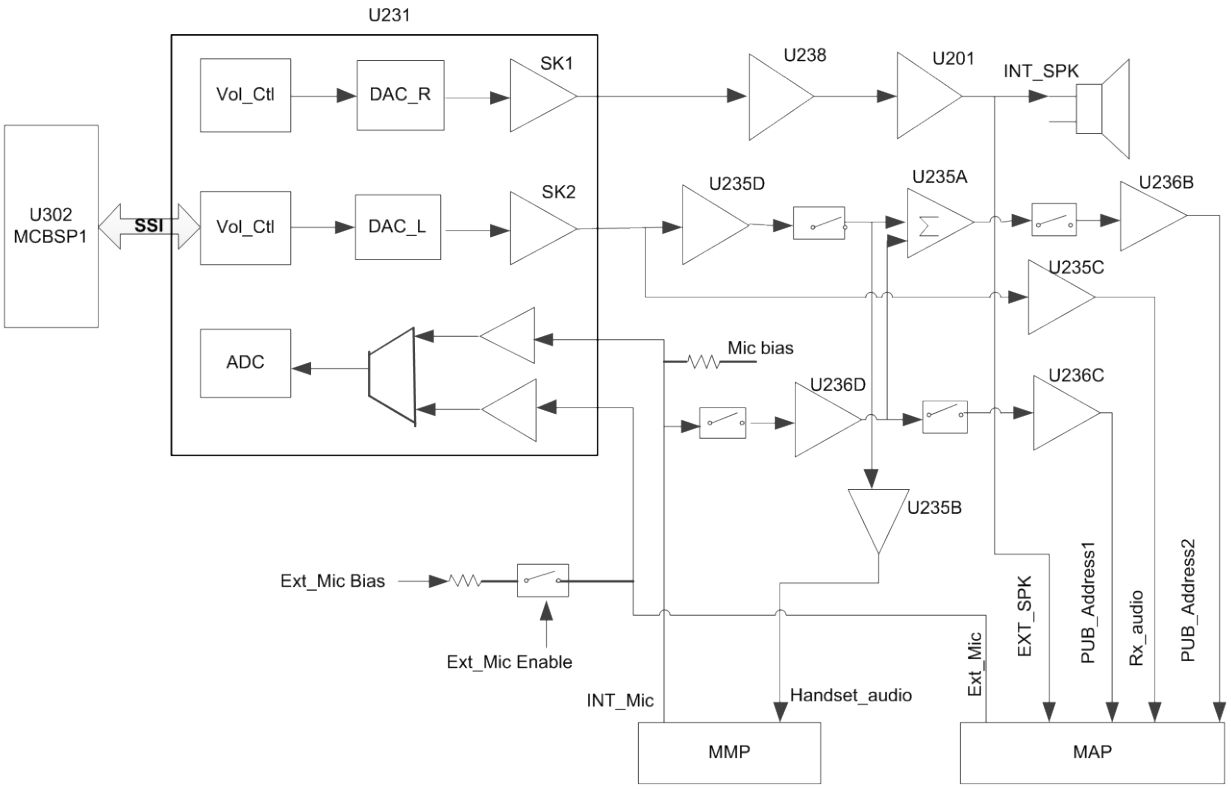
  J400, an option board interface, is used to achieve specific function by connecting to the designated option board. The definition of each pin is listed as below:

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remarks
1 3 5 7 9	GPIO1 GPIO2 GPIO3 GPIO4 GPIO5	GPIO GPIO GPIO GPIO RESET-OUT	I/O I/O I/O O O	VIH MIN=0.7VDD VIL MAX=0. 3VDD VOH MIN=0.8VDD VOL MAX=0.22VDD	GPIO5: output signal of resetting the option board. GPIO4/GPIO5: Unidirectional output interfaces. They require their input resistances are greater than or equal to 47 kΩ.
11 13 15 17	UART-TX UART-RX UART-CTS UART-RTS	UART	O I I O		UART
2 4	I2C –SDA I2C -SCL	I2C	I/O O		I2C
6 8 10 12	MCBSP-DR MCBSP-WCLK MCBSP-DX MCBSP-FSX	MCBSP	I I/O O I/O		McBSP: Multi-channel buffered serial port
14	AGND	AGND	/	/	/
16	AF OB TO MB	AF	I	80 mV (standard output from the option board to the main board)	MAX: 700mV

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remarks
18	AF MB TO OB	AF	O	80 mV (standard output from the main board to the option board)	MAX: 700mV
19	DGND	DGND	/	/	/
20	3V6 or 5V	Power	O	Voltage: 5.0 V	/

5.2.3 Audio Module

The audio module is used to output RX audio and input relay audio and TX audio, which serves as the RX audio path and TX audio path.



- RX Audio Path

  U302 sends digital audio signals to the audio processor codec (U231) via the SSI bus of MCBSP1.This bus is composed of CLKX, FSX, DX and DR. It sends the 16-digit demodulated PCM audio signal to the codec (U231), and adjusts the signal to appropriate amplitude according to the

volume (RMS should be 80 mV when frequency is 1 kHz and deviation is 3 kHz). Then the codec (U231) converts PCM data into analog audio data via DAC.

U231 provides two outputs: SPK1 and SPK2. SPK1 is amplified by U238 and then is fed to the PA U201, to derive two outputs of received audio, which will be applied to the front panel speaker and further development interface respectively. SPK2 is amplified and divided into the four paths of signal Handset_audio, RX_audio, PUB_Address1 and PUB_Address2. The first two paths are amplified by U235, and the last two paths are amplified by U236. Output of Handset_audio, PUB_Address1 and PUB_Address2 are controlled by Q231, Q235 and Q233 respectively.

- TX Audio Path

  The audio processor U231 has two MIC inputs: the internal MIC and external MIC. The internal MIC is connected to the MICIN_HND of U231, and is combined with AUX1 to provide differential input. After 9.3 V is divided by R255 and R264, a bias voltage of about 7 V is provided to the front panel MIC. The external MIC is connected to the MIC_HED of the codec (U231) as a unidirectional input.

  Both MICs are controlled by Q232. When the internal MIC is active, EXT_MIC_EN is at low level, bias voltage of external MIC is disconnected, and the ADC in U231 samples voltage at the MICIN_HND. When external MIC is active, EXT_MIC_EN is at high level, Q232 is turned on, bias voltage is connected, and the ADC in U231 senses only audio data at pin MICIN_HED.

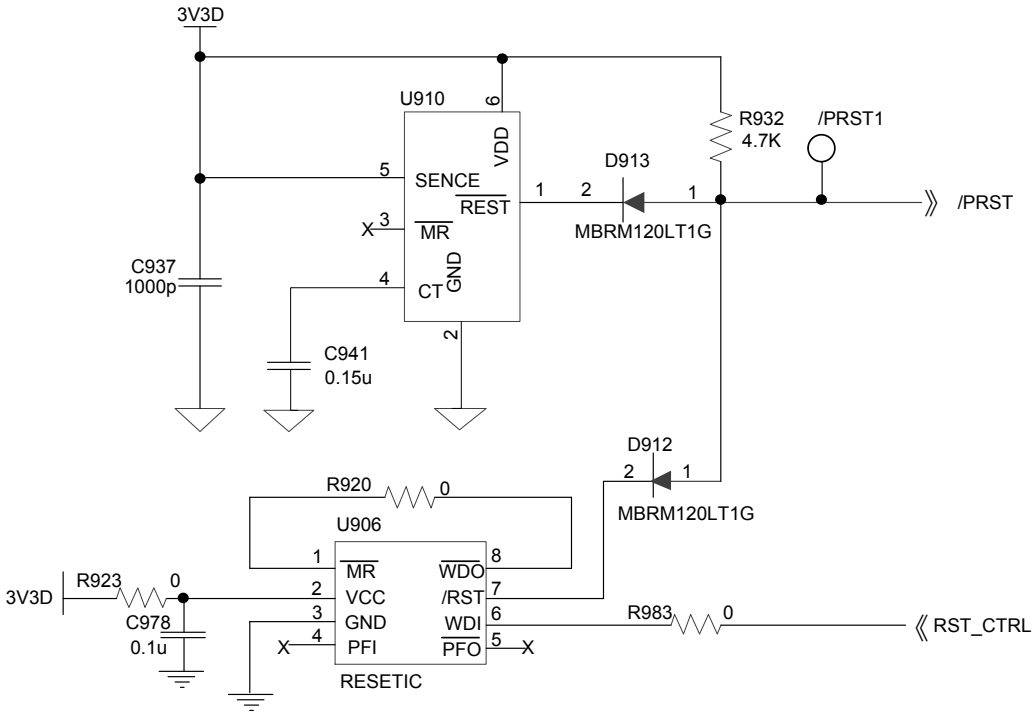
  Audio signals input from the MMC interface and the accessory connector are fed to the Codec (U231) and then are converted by the ADC into 16-bit PCM digital audio signals, which will be fed to U302 via the SSI.

  When the mobile radio is set to Public Address mode, the audio signal will be generated by the internal MIC, and then is buffered by U231, and finally is output via SPK2. The output audio signal is amplified, and then is output as the two paths of audio PUB_Address1 and PUB_Address2.

5.2.4 PCB Difference

The PCB has four versions: D, F, H, and L.

- Version D: It is the basic version.
- Version F: The watchdog circuit (in the figure below) is added.



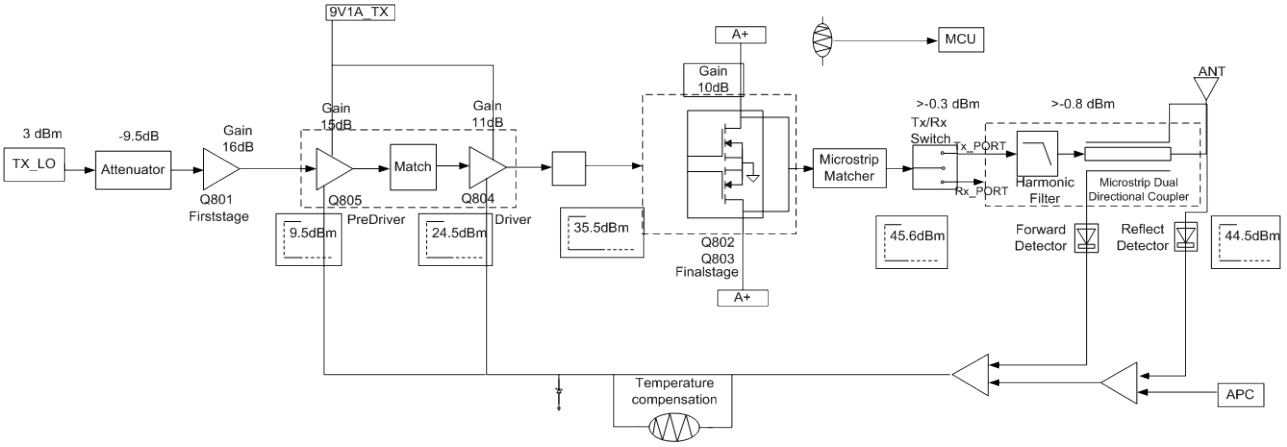
The watchdog circuit is used to prevent the mobile radio from damage due to OMAP malfunction. If the program works properly, U302 feeds pulse signal (25 ms) to the watchdog circuit through RST_CTRL. Otherwise, this pulse signal will be terminated and delayed for more than 1.6s so that U906 generates the reset signal to reset OMAP.

- Version H: The audio amplifier is different compared with Version D and Version F.
- Version L: The DC/DC conversion circuit is optimized, GPS pulse and GPS backup circuit are added, and some circuits are deleted.

5.3 RF Section

5.3.1 Transmitter Circuit

The transmitter circuit is composed of power amplifier circuit and power control circuit. The former is used to amplify the voltage control oscillator (VCO) signal to the appropriate output power level, while the latter can keep the output power at the appropriate level, so as to protect the power amplifier from damage caused by overheating, antenna mismatch, and out-of-range voltage (over voltage or under voltage may result in damage to Q801, Q805, Q804, Q802 and Q803).



Power Amplifier Circuit

The power amplifier circuit consists of four-stage power amplifier circuits and amplifies the signal output from VCO to the required output power level.

Note

Only one final-stage PA (Q803) is available, if the power of the mobile radio is 25 W and the version of main board is Version H or later version.

- TX Buffer Amplifier

  TX buffer amplifier provides 16 dB power gain by Q801. Adjust the bias circuit of TX buffer amplifier circuit to get a quiescent bias current of 28 mA for Q801. Power supply for the switching transistor Q810 is controlled by TX signal, so as to further control the power supply for the whole circuit.

- Pre-driver Power Amplifier

  The pre-driver power amplifier is formed by Q805, with variable gain controlled by voltage VGG. The input matching circuit is composed of C826, L826, L814, C843, and R824.

- Driver Power Amplifier

  The driver power amplifier is formed by Q804, with variable gain controlled by voltage VGG. Its maximum output power is 35.5 dBm and maximum gain is 11 dB.

- Final-stage Power Amplifier

  The final-stage power amplifier outputs via two LDMOS PA transistors (Q802 and Q803) which are in parallel connection. Its maximum output power is 45.6 dBm and the maximum variable gain is 10 dB. The input matching circuit is composed of C815, C839, R804, R806, R807, R813, R818, and R861, while the power combining circuit is composed of C820, C830, C831, C819, C812, C841, and C842.

Antenna Switch

The antenna switch is used to switch between the transmitter circuit and the receiver circuit.

- In TX mode

TX signal controls the switching transistor Q810, to further control the power supply (9 V 3 A) for the PIN diodes D801 and D802. Quiescent bias current of the PIN diode is controlled by the resistors R821 and R825. In this mode, D801 and D802 are turned on; RF signals are transmitted via the antenna port through the low-pass filter (composed of C821, C816, C836, C837, C838, L809, L813, and L810).

- In RX mode

  TX signal controls the switching transistor Q810, to further control the power supply for the PIN diodes D801 and D802, which are not applied with DC bias current. When the two PIN diodes are turned off, signals feed into the RX path through the low pass filter (composed of L871, C852, and C862).

Low-pass Filter

The low-pass filter consisting of inductors (L809, L813, and L810) and capacitors (C821, C816, C836, C837, C830, and C838), is used to attenuate harmonic energy from the transmitter.

Directional Coupler

The directional coupler is composed of components such as microstrip directional coupler, D803 and D804. It is used to detect both forward and reverse power of the transmitter. The forward power is coupled to the diode D803, and the voltage is applied to the power control circuit (U801). Then U801 outputs the voltage VGG for controlling the gate voltage of Q805 and Q804, ensuring a constant power output. The reverse power is coupled to D804. The voltage is applied to U802 and then fed into U302 for detection.

Power Control

The TX power is controlled by power control chips U801. The forward power is applied to the directional coupler, to output a voltage that can represent the forward power. The voltage together with the preset voltage feeds to U801 to output a voltage VGG, which can control both gate voltage and gain of Q804 and Q805, ensuring a constant power output.

Thermal and Over-voltage Protection

The circuit comprises thermistor RT804 and resistor R884. The output voltage is proportional to the detected temperature. Both the voltage used for temperature detection and the threshold voltage are fed to the operational amplifier U804, to output a voltage signal that is proportional to the detected temperature. The voltage is applied to software judgment via the diode, and then the preset voltage will be subsequently changed to lower TX power, and to protect the PA from over-heating.

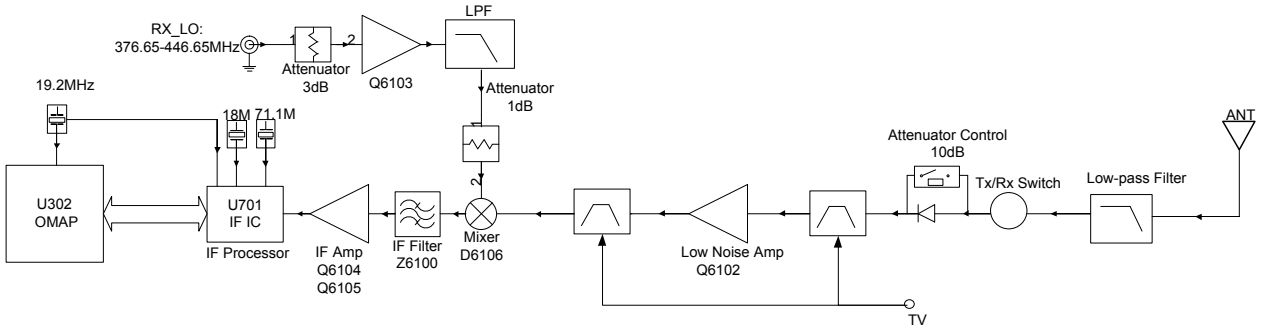
Pressure Pad Switch

The power control circuit includes a pressure pad switch SW1, which is controlled by the conductive rubber part mounted on the upper cover. When the switch is turned off, the power control voltage VGG

will become low, and no power will be output from PA. Otherwise, PA will work normally.

5.3.2 Receiver Circuit

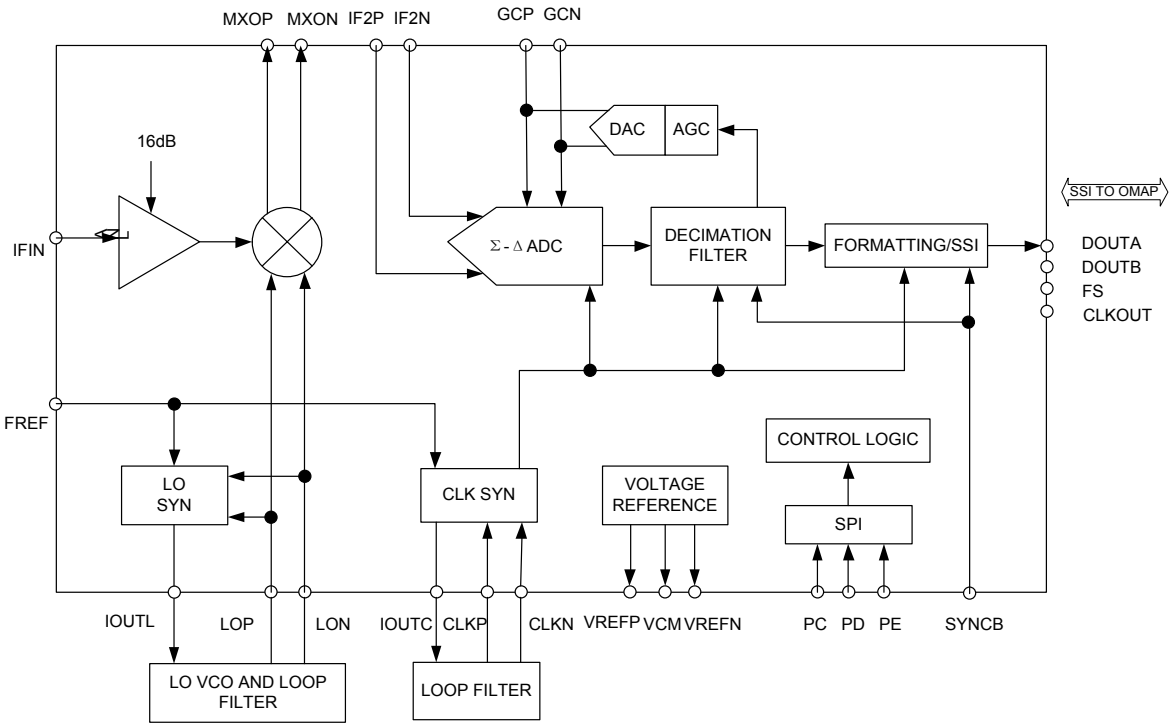
The receiver circuit employs double conversion superheterodyne technique. The first IF is 73.35 MHz and the second IF is 2.25 MHz. The first local oscillator (LO) signal is supplied by the PLL circuit (U100), and the second LO signal (71.1 MHz) is supplied by IF processor circuit (U701). The major units are BPF and LNA, mixer, IF filter, IF amplifier, and IF processor.



Receiver Front-end

RF signals feed to the low-pass filter to remove out-of-band signals, and are applied to the two-stage electrically tunable band-pass filter to get useful signals. After passing through the RF band-pass filter and LNA (Q6102), the RF signals together with the first LO signal feed to the mixer (D6106) for the first frequency conversion, to generate the first IF signal (73.35 MHz). The LO signal (3 – 5 dBm) from the VCO feeds to Q6103 to get a gain (17 dB). Afterwards, the first LO signals (73.35 MHz) pass through the crystal filter (Z6100) to remove out-of-band spurious signals, and then feed to the two-stage IF amplifier circuit (composed of Q6105 and Q6104) for amplification. Finally the amplified signals go to the IF IC (U701) for processing.

Receiver Back-end



The first IF signal (73.35 MHz) output by the IF amplifier goes into IF IC via Pin 47, where the signal is converted to the second IF signal (2.25 MHz). Then the un-demodulated digital I/Q signal output from the SSI is sent to U302 for demodulation. IF IC employs a reference frequency of 19.2 MHz and shares the crystal with U302. The second LO VCO consists of the external transistor, varactor and relevant components, to provide the second LO signal. The clock frequency is 18 MHz, which is generated by the external LC (D702, L715 and C745) resonance loop.

DSP (U302) acquires the audio signal from IF IC. Then this signal goes through U302 to output data signal, which is sent to U231 and PIN44 (SSI_DI) for digital-to-analog conversion. Finally, the output analog audio signal will be subjected to gain control, and then fed to the speaker.

5.3.3 FGU Circuit

PLL Synthesizer

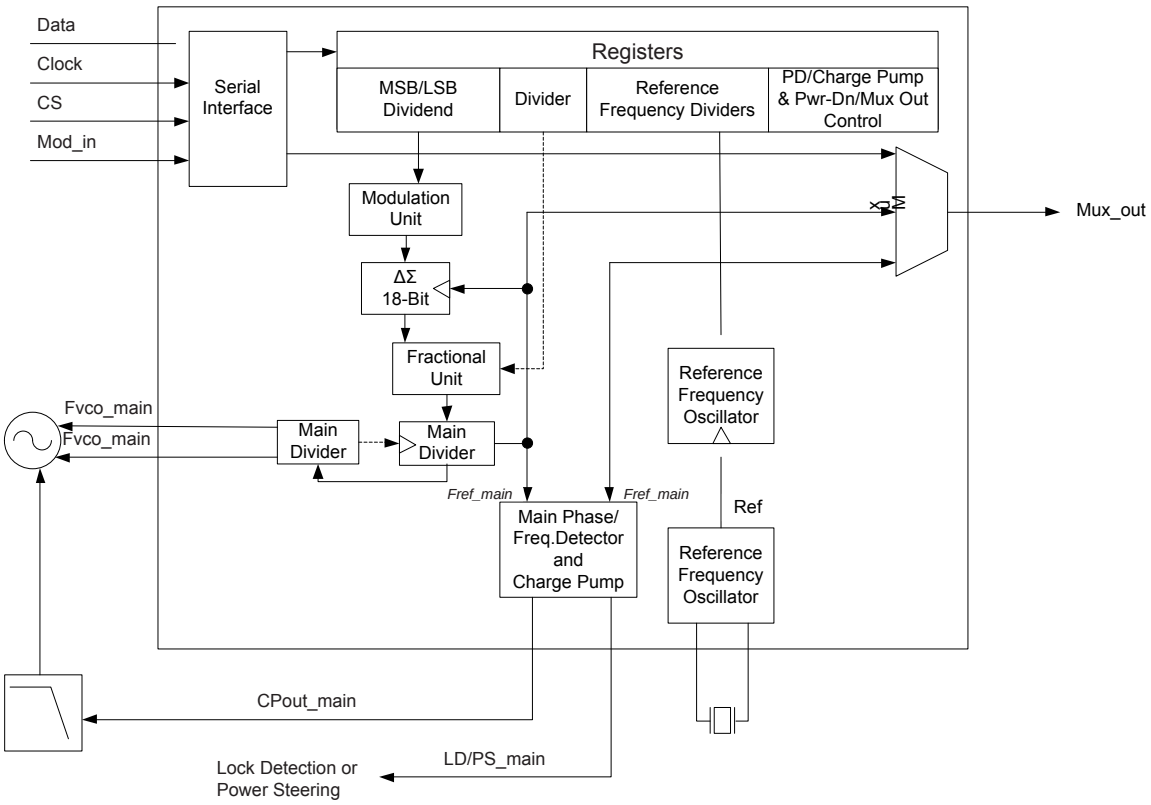
The PLL synthesizer that consists of the crystal oscillator (X100), PLL IC (U100) and VCO, is used to supply excitation signal source to the transmitter, and LO signal to the receiver.

Crystal Oscillator

Crystal oscillator (X100) employs a 19.2 MHz Temperature Compensated Crystal Oscillator (TCXO), and its reference frequency is calibrated by the digital-to-analog converter IC (U500) for accuracy.

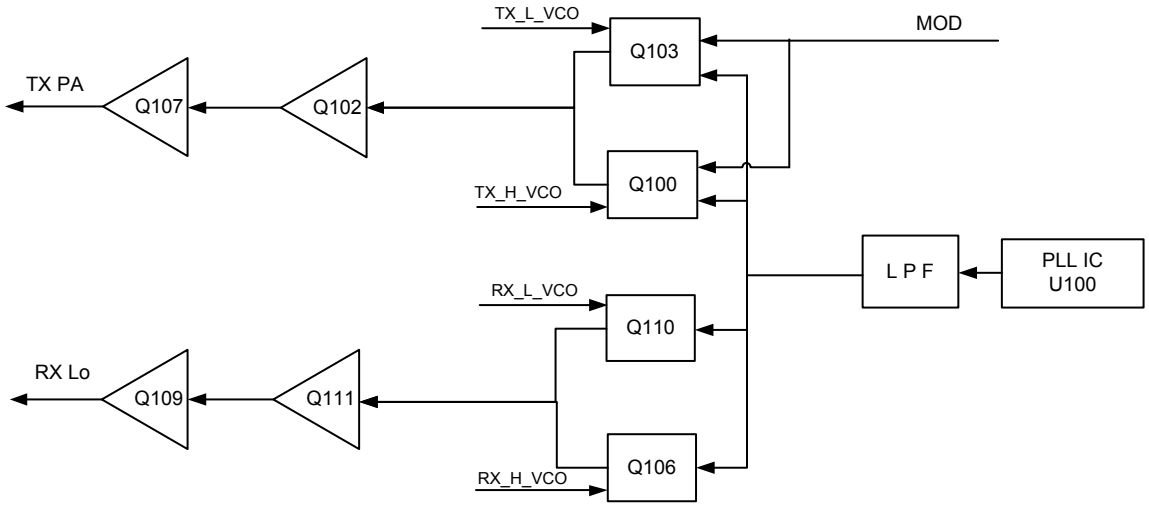
PLL IC

The PLL IC (U100) is a fractional frequency divider IC. The logic switch ICs (U101 and U102) work with the PLL IC (U100) to achieve locking.



The 19.2 MHz frequency generated by the crystal oscillator (X100) goes into the PLL IC (U100) for frequency division, generating the reference frequency. Meanwhile, the frequency generated by VCO goes into PLL IC (U100) for frequency division. The resulting frequency will be compared with reference frequency in terms of phase difference in the phase detector. After comparison, the resulting frequency is converted to CV voltage via the loop filter, to control and lock the frequency.

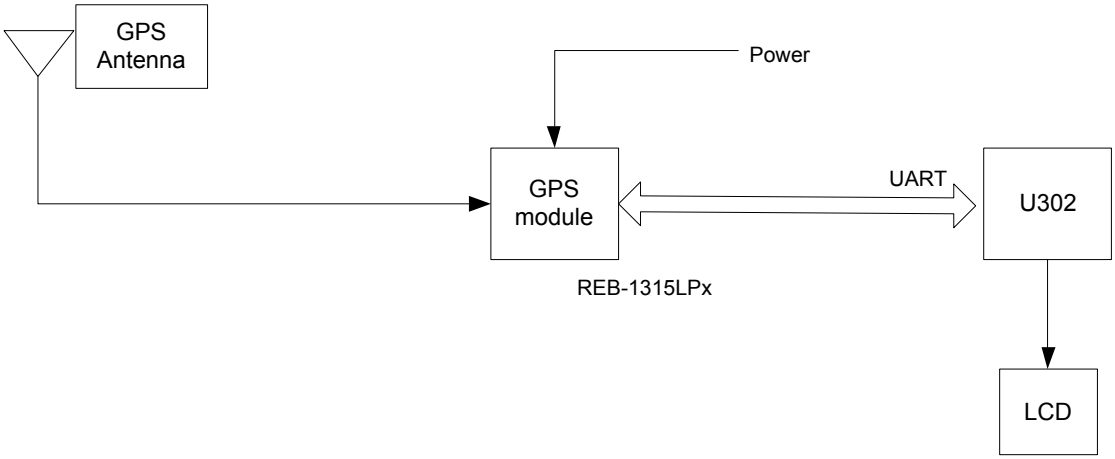
Voltage-Controlled Oscillator (VCO)



The VCO is composed of transistors (Q100, Q103, Q106 and Q110), varactors and four Colpitts oscillators. There are four VCOs in all: two VCOs (Q100 and Q103) used to transmit excitation signals and the other two VCOs (Q106 and Q110) to receive LO signals. U302 controls the operating frequency

of the VCO. Q102 and Q107 constitute the buffer amplifiers for the transmitter circuit, while Q111 and Q109 for the receiver circuit. The digital-to-analog converter (U500) modulates the TX oscillator signal.

5.4 GPS Circuit Section

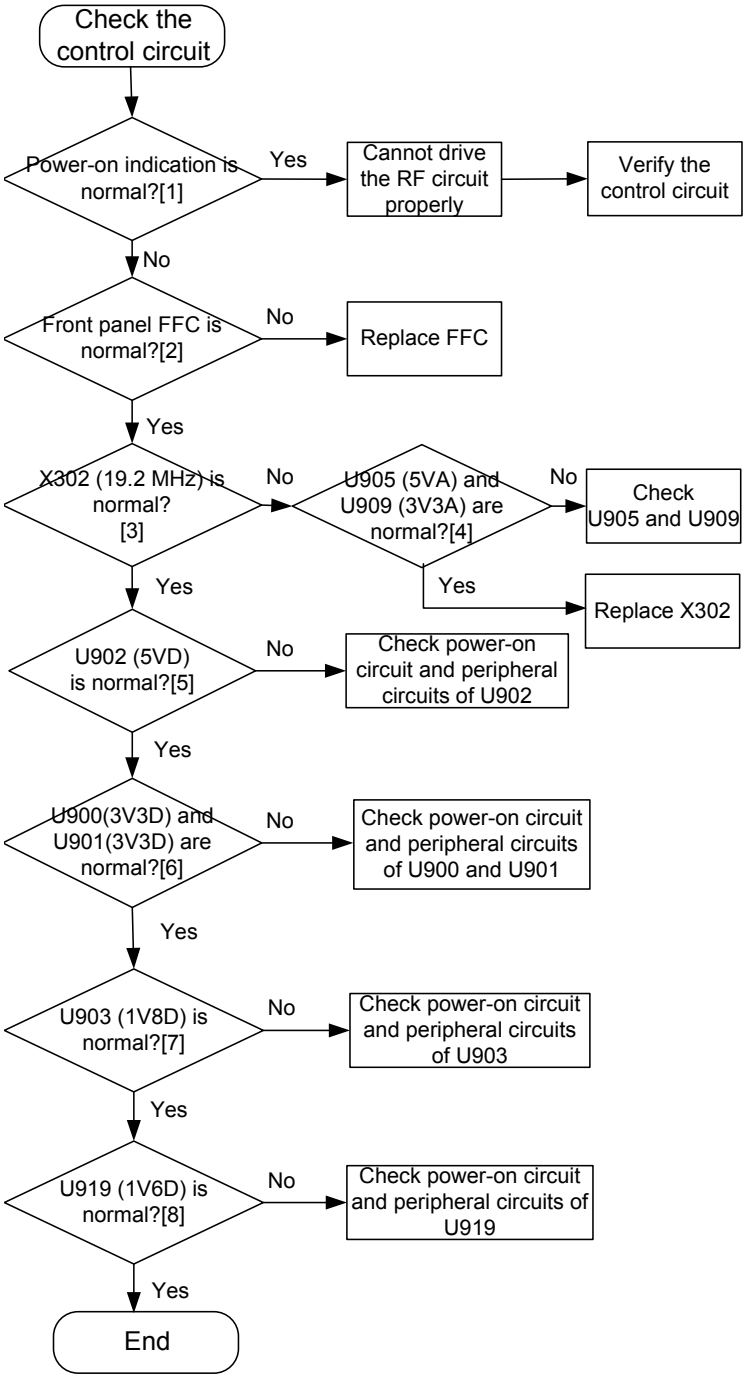


GPS data can be acquired via the programmable GPS key on the front panel of the mobile radio. The GPS function is realized via REB-1315LPx module, which integrates GPS baseband processor circuits.

The GPS signal (1.57542 GHz), received via the GPS active antenna (with a built-in LNA), goes to the GPS module for processing, and then enters U302 via the UART port. Meanwhile, U302 sends control command to the GPS module and forwards processed GPS data to the LCD display.

6. Troubleshooting Flow Chart

6.1 Control Circuit



Description of normal situations:

[1] The screen is not blurred upon power-on.

[2] The FFC connects correctly.

[3] The frequency of signal from X302 is 19.2 MHz.

[4] The output voltage of U905 and U909 is 5 V and 3.3 V respectively.

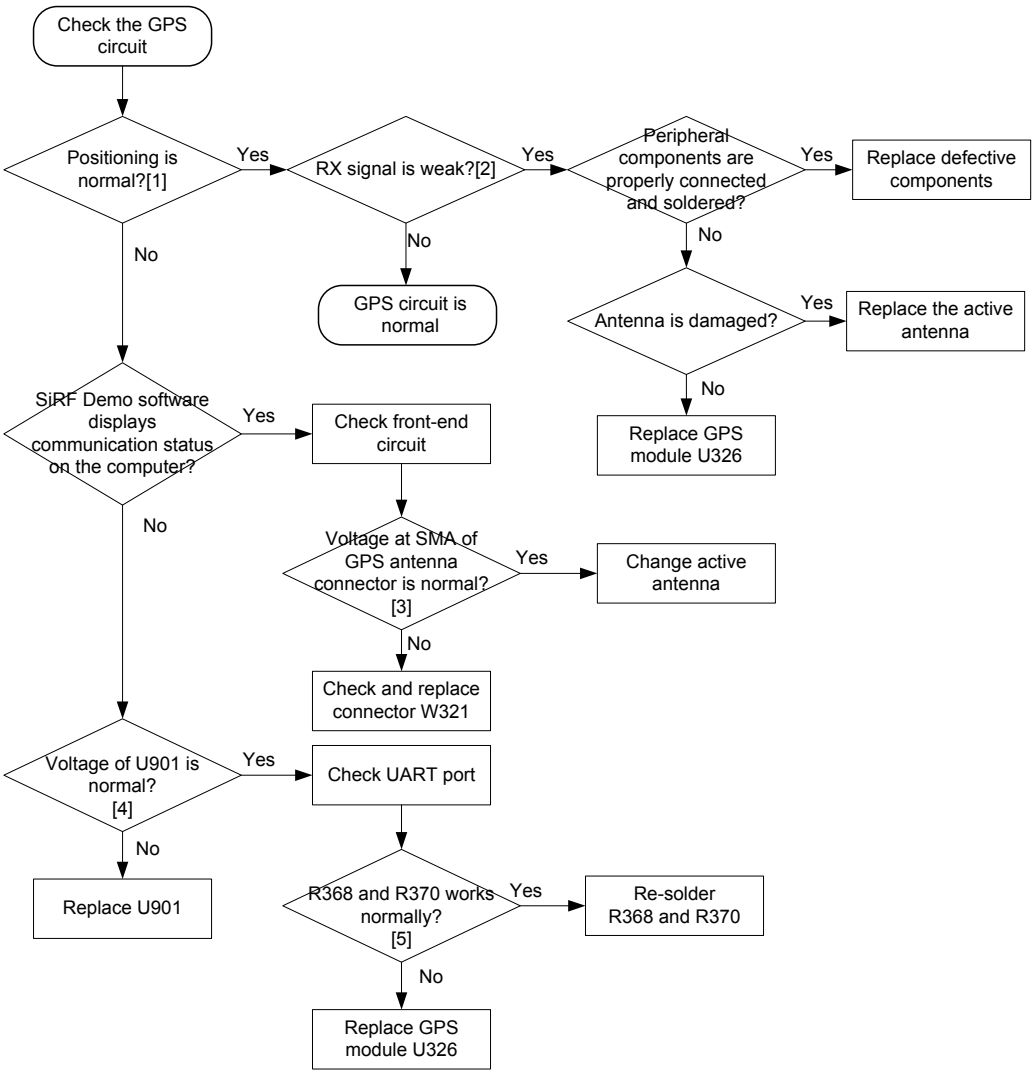
[5] The output voltage of U902 is 5 V.

[6] The output voltage of U900 and U901 is 3.3 V.

[7] The output voltage of U903 is 1.8 V.

[8] The output voltage of U919 is 1.6 V.

6.2 GPS Circuit



Description of normal situations:

[1] The satellite signal is received properly.

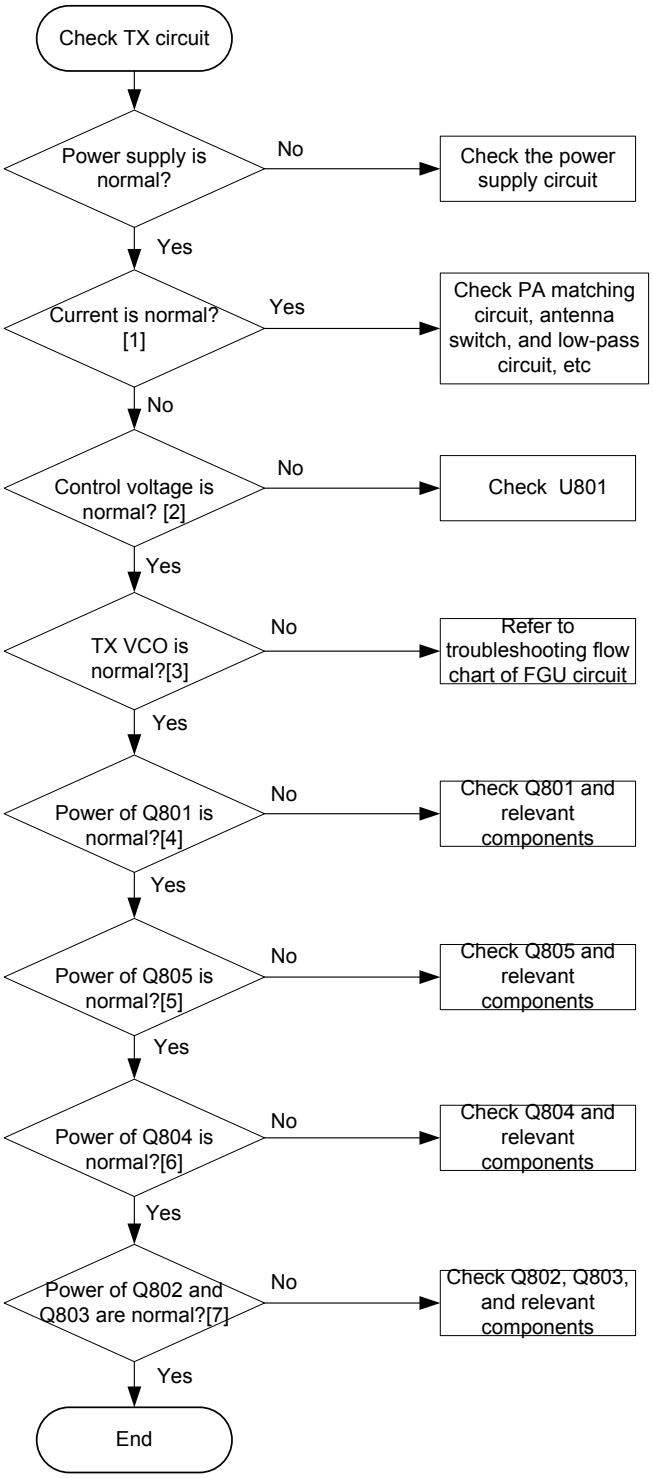
[2] The sensitivity is less than -130 dBm.

[3] Voltage at SMA of GPS antenna connector ranges from 3.2 to 3.35 V.

[4] The output voltage of U901 is 3.3 V.

[5] R368 and R370 have no soldering defects.

6.3 TX Circuit



Description of normal situations:

[1] In analog mode, the current is above 4 A under 25 W, above 7 A under 45 W, and 1 A under 5 W. However, in digital mode, the current will be reduced by 50%.

[2] The voltage at TP811 is above 2 V.

[3] The output amplitude of the TX LO signal at TP803 is about 10 dBm. Make sure that the back-end circuit is disconnected during test.

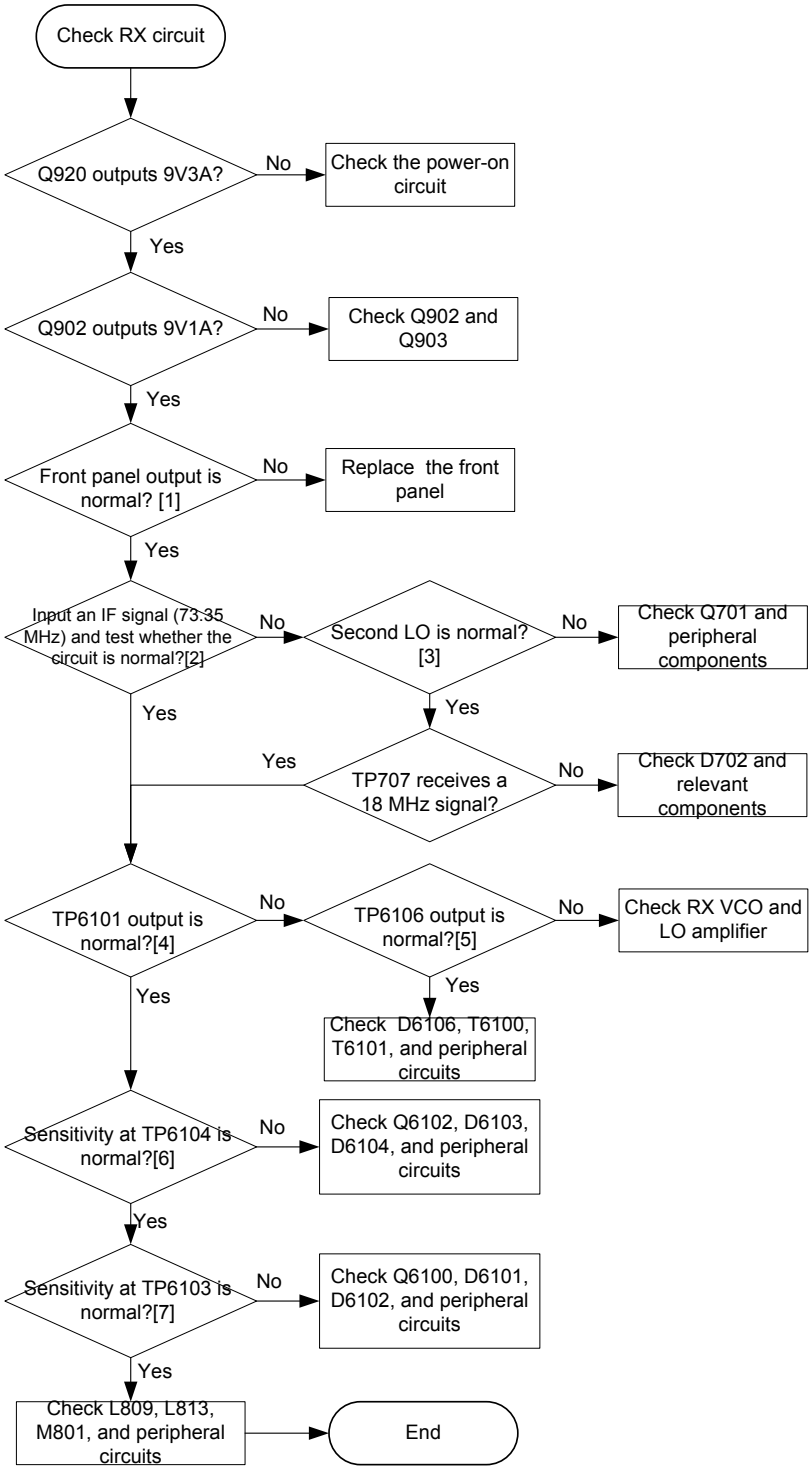
[4] The gain is 16 dB and the input signal is 0 dBm at Q801.

[5] The gain is 15 dB and the input signal is 0 dBm at Q805.

[6] The gain is 11 dB and the input signal is 0 dBm at Q804.

[7] The gain is 10 dB and the input signal is 0 dBm at Q802 and Q803.

6.4 RX Circuit



Description of normal situations:

[1] During sensitivity test, use a communication test set to demodulate the audio signal at TP4012 and TP4016. If the signal is demodulated normally, it is concluded that the front panel is defective.

[2] Use the communication test set to apply a 73.35 MHz IF signal at the mixer, and sensitivity is about -110 dBm.

[3] There is a second LO signal (71.1MHz) at TP704.

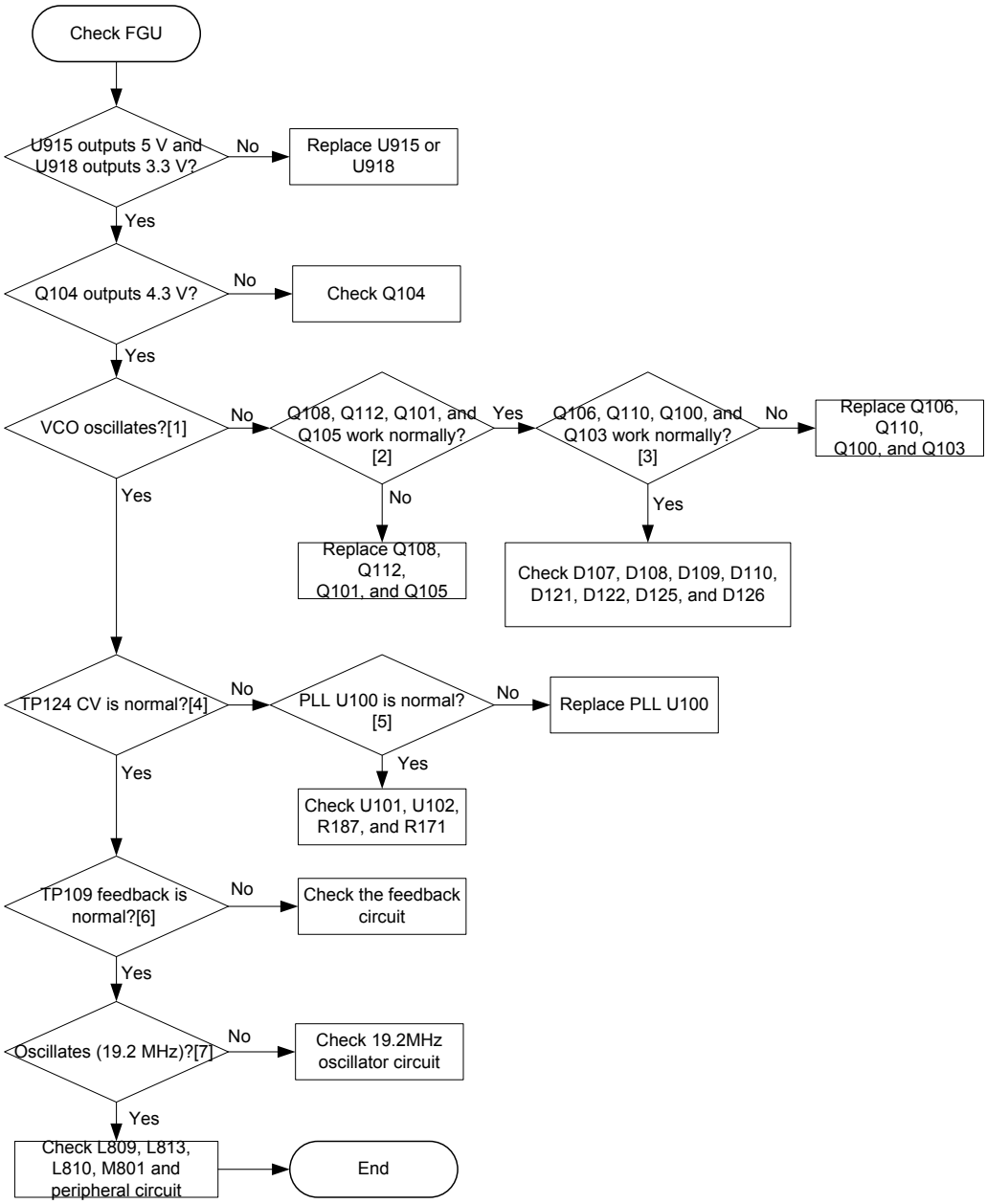
[4] The sensitivity at TP6101 is about -110 dBm.

[5] The received LO signal at TP6106 is about 18 dBm.

[6] The sensitivity at TP6104 is about -120 dBm.

[7] The sensitivity at TP6103 is -117 dBm.

6.5 Frequency Generation Unit (FGU)



Description of normal situations:

[1] The oscillation frequency of RX TP123 and TX TP111 can be detected.

[2] Q101, Q105, Q108, and Q112 are turned on and output about 3.6 V.

[3] The emitter voltage of Q106, Q110, Q100 and Q103 is about 1.8 V.

[4] The CV of TP124 ranges from 0.5 V to 4.5 V.

[5] PLL U100 is supplied by 5 V and 3.3 V normally.

[6] The power of the signal from TP109 to PLL is about -15 dBm.

[7] TP110 outputs 19.2 MHz signal.

7. Interface Definition

7.1 10-Pin Connector

The 10-pin connector on the front panel is used for audio accessories or data cable connection. The definition of each pin is described as below.

Pin No.	Name	Type	Signal Electrical Performance	Description
1	Accessory identification interface 1	Digital input	3.3 V CMOS	Pin 1 and Pin 10 (accessory identifier interface 2) compose an accessory identification matrix. Please refer to the "10-pin Accessory Identification Matrix Table" below for detailed function definitions.
2	PTT input	Digital input	3.3 V CMOS	PTT input for the palm microphone, which is valid at low level.
3	External audio output	Analog output	Load impedance >1 kΩ Vrms=600mV±10%@1 kHz 60% system max. deviation	Accessory audio output. When "Mic Audio Output" is selected via CPS, this pin will output the received audio signal.
4	USB_D-	USB data cable-	USB data	When this pin is used for USB function, USB function of DB26 will be disabled.
5	GND	Ground cable	/	/
6	USB_VBUS	USB power supply	Power supply: 5 V; current limiting: 500 mA	This pin provides power supply to the USB accessory. It outputs a 5 V voltage when accessory identification code is 00|01|10, and outputs low level when the code is 11.

Pin No.	Name	Type	Signal Electrical Performance	Description
7	Mic input	Analog input	Modulation sensitivity Vrms=80mV±10%@1kHz 60%system max. deviation	Mic input for palm microphone
8	USB_D+	USB data cable+	USB data	When this pin is used for USB function, USB function of DB26 will be disabled.
9	HOOK	Digital input	3.3V CMOS	High level by default; valid at low level. HOOK and MONITOR functions: Press this key, the level changes from high to low. When palm microphone is detected or press the key of the palm microphone, this pin is used for HOOK function; when desktop microphone is detected, this pin is used for MONITOR function.
10	Accessory identification interface 2	Digital input	3.3V CMOS	Pin 1 and Pin 10 (accessory identifier interface 1) compose an accessory identification matrix. Please refer to the "10-pin Accessory Identification Matrix Table" below for detailed function definitions.

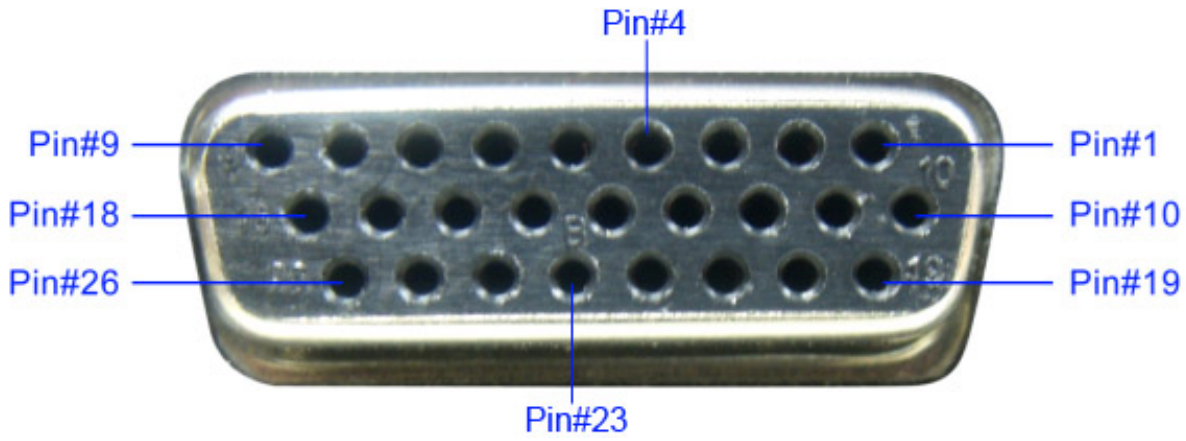
10-pin Accessory Identification Matrix Table (composed of Pin 1 and Pin 10):

Pin 1	Pin 10	Radio Status
Low level	Low level	Reserved
Low level	High level	The mobile radio is in USB master mode or connected to a USB smart accessory (such as palm microphone with keypad).
High level	Low level	The mobile radio is connected to an external speaker (including

Pin 1	Pin 10	Radio Status
		desktop microphone with earpiece).
High level	High level	The mobile radio is in USB slave mode, or it is not connected to any accessory, or it is connected to a palm microphone without keypad.

7.2 DB26 Accessory Interface

DB26 accessory interface, namely the 26-pin further development interface on the rear panel, is mainly used for accessory connection of mobile radio, or compatibility with other interfaces. Users can further develop the radio via this interface. The figure and definition of each pin is as follows.



Pin No.	Name	Type	Signal Electrical Performance	Description
1	Vbus USB power supply	Power output	Power supply: +5V; current limiting: 500 mA	Pin 1 and Pin 10 (accessory identification interface 2) compose an accessory identification matrix. This pin outputs a 5 V voltage when accessory identification code is 00|01|10, and outputs low level when the code is 11.
2	Ground	Power supply (grounding)	/	/
3	GP5_3 (Chan_Act)	GPIO	5V TTL	GPIO. Programmable via CPS.
4	SWB+	Power	Power supply :13.2V±15%;	Power output: 13.2 V; output

Pin No.	Name	Type	Signal Electrical Performance	Description
		output	output current ≤1 A	current: ≤1 A
5	External Alarm	Analog voltage output	13 V alarm output	Programmable output pin (“External Horn & Lights” feature by default, programmable via CPS).
6	Power Ground	Power supply (grounding)	/	/
7	TX Audio	Analog signal input	Vrms=80 mV±10%@1 kHz 60% system max. deviation	This pin is used for signal input of external MIC. The audio path is valid when the external Mic PTT is held down.
8	RX Audio	Analog signal output	Load impedance>1kΩ Vrms=300 mV±10%@1 kHz 60% system max. deviation	Default output is 300 mV. The output signal amplitude can be changed by modifying the “Analog RX Gain” value via CPS.
9	SPK-	Analog output	It forms differential output together with SPK+. Max power output: 10 W(R=8 Ω)	External speaker output-
10	D+	USB data cable+	USB data	USB data cable+
11	USB_GROUND	Ground cable	/	/
12	GP5_2 (Monitor)	GPIO	5V TTL	GPIO. Programmable via CPS; Monitor feature by default.
13	ACC_IO2	Digital input	5V TTL	Accessory identification interface; high level by default. This pin and Pin 15 (ACC_IO3) can compose three accessory identification

Pin No.	Name	Type	Signal Electrical Performance	Description
				statuses. Please refer to the "DB26 Accessory Identification Matrix Table" below for detailed function definitions.
14	Emerg Sw	Digital input	5V TTL	Emergency switch. This pin is valid when low level is input.
15	ACC_IO3	Digital input	5V TTL	Accessory identification interface; high level by default. This pin and Pin 13 (ACC_IO2) can compose three accessory identification statuses. Please refer to the "DB26 Accessory Identification Matrix Table" below for detailed function definitions.
16	PRGM_IN_PTT	Digital input	5V TTL	Programmable input pin (**PTT** key of external Mic by default; its function is programmable via CPS). It is valid at low level.
17	Audio Ground	Audio (grounding)	/	/
18	SPK+	Analog signal output	It forms differential output together with SPK-. Max power output: 10 W(R=8 Ω)	External speaker output+
19	D-	USB data cable-	USB data	USB data cable-
20	GP5_8	Digital input/output	5V TTL	GPIO. Programmable via CPS.
21	Ground	Ground cable	/	/

Pin No.	Name	Type	Signal Electrical Performance	Description
22	GP5_7	Digital input/output	5V TTL	GPIO. Programmable via CPS.
23	GP5_6	Digital input/output	5V TTL	GPIO. Programmable via CPS.
24	AUX Audio Out 1	Analog output	Load impedance >1 kΩ Vrms=300 mV±10%	Auxiliary audio (external speaker) output 1
25	AUX Audio Out 2	Analog output	Load impedance >1 kΩ Vrms=300 mV±10%	Auxiliary audio (external speaker) output 2
26	Ign Sense Detect Pin	Analog voltage input	Ignition voltage input >7 V	Input pin for ignition voltage

Note

When a pin is marked with 5 V TTL level, this pin has the pull-up function. If the pin needs to be set to high level, empty this pin.

DB26 Accessory Identification Matrix Table (composed of Pin 13 and Pin 15):

Pin 13	Pin 15	Radio Status
High level	High level	Default status. The mobile radio is in USB slave mode or not connected to any accessory.
High level	Low level	The mobile radio is in USB master mode or connected to a USB smart accessory (such as palm microphone with keypad).
Low level	High level	The mobile radio is connected to an external speaker (including desktop microphone with earpiece).
Low level	Low level	Reserved

7.3 Other Interfaces

J2 (LCD Display Interface)

Pin No.	Name	Description
1	GND	Grounding pin
2	VCI	2.5 – 3.3 V adjustable port

Pin No.	Name	Description
3	VCI	2.5 – 3.3 V adjustable port
4	IOVCC	1.65 – 3.3 V adjustable I/O port
5	FLM	Synchronization signal control port
6	CS	Chip select signal
7	RS	Register select
8	WR	Write signal
9	RD	Read signal
10	DB0	Data bus
11	DB1	
12	DB2	
13	DB3	
14	DB4	
15	DB5	
16	DB6	
17	DB7	
18	DB8	
19	DB9	
20	DB10	
21	DB11	
22	DB12	
23	DB13	
24	DB14	
25	DB15	
26	DB16	
27	DB17	

Pin No.	Name	Description
28	RESET	Reset signal
29	IM3	Select data cable
30	IM0	
31	LEDA	LED anode
32	LED_K1	LED cathode
33	LED_K2	
34	LED_K3	

J4 (Aviation Interface of Front Panel)

Pin No.	Name	Description
1	ACC_IO1	Digital input
2	PTT_IN	Digital input
3	External_Audio	Analog output
4	USB_D-	USB data cable
5	GND	Ground cable
6	USB_VBUS	Power supply
7	MIC_IN	Analog input
8	USB_D+	USB data cable
9	HOOK	Hook signal input
10	ACC_IO2	Digital input

J400 (Option Board Interface)

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remark
1	GPIO1	GPIO	I/O	VIH MIN=0.7VDD VIL MAX=0. 3VDD VOH MIN=0.8VDD VOL MAX=0.22VDD	GPIO5: output signal of resetting the option board. GPIO4/GPIO5:
3	GPIO2				
5	GPIO3				
7	GPIO4		O		

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remark
9	GPIO5	RESET-OUT	O		Unidirectional output interfaces. They require their input resistances are greater than or equal to 47 kΩ.
11	UART-TX	UART	O		UART
13	UART-RX		I		
15	UART-CTS		I		
17	UART-RTS		O		
2	I2C –SDA	I2C	I/O		I2C
4	I2C -SCL		O		
6	MCBSP-DR	MCBSP	I		McBSP: Multi-channel buffered serial port
8	MCBSP-WCLK		I/O		
10	MCBSP-DX		O		
12	MCBSP-FSX		I/O		
14	AGND	AGND	/	/	/
16	AF OB TO MB	AF	I	80 mV (standard output from the option board to the main board)	MAX: 700 mV
18	AF MB TO OB	AF	O	80 mV (standard output from the main board to the option	MAX: 700mV

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remark
				board)	
19	DGND	DGND	/	/	/
20	3V6 or 5V	Power	O	Voltage: 5.0 V	/

J403 (Pin Interface)

Pin No.	Name	Description
1	Vbus USB	Power supply: +5 V
2	Ground	Ground cable
3	GP5_3	Digital input/output
4	SW B+ sense	Power supply
5	External Alarm	Analog voltage output
6	Power Ground	Power supply (grounding)
7	Tx Audio	Analog input
8	RX Audio	Analog output
9	Spkr-	Analog output
10	D+ USB	USB data cable+
11	USB_GROUDN	Ground cable
12	GP5_2	Digital input/output
13	ACC_IO2	Digital input
14	Emerg Sw	Digital input
15	ACC_IO3	Digital input
16	PRGM_IN_PTT	Digital input
17	Audio Ground	Audio ground
18	Spkr+	Analog output
19	D- USB	USB data cable-
20	GP5_8	Input/output

Pin No.	Name	Description
21	Ground	Ground cable
22	GP5_7	Input/output
23	GP5_6	Digital input/output
24	AUX Audio Out 1	Analog output
25	AUX Audio Out 2	Analog output
26	Ign Sense	Analog voltage input

J404 (Front Panel Interface)

Pin No.	Name	Description
1	INT_MIC	Audio input
2	MIC_GROUND	Audio input (grounding)
3	ACC_IO1	Accessory identification interface 1
4	USB_VBUS	USB power supply
5	HOOK	HOOK
6	PTT	PTT
7	USB_D-	USB data cable D-
8	USB_D+	USB data cable D+
9	ACC_IO2	Accessory identification interface 2
10	UART2_RXD_A	Volume control port
11	UART2_TXD_B	/
12	EXTERNAL_AUDIO	Audio signal output by accessory (mobile radio)
13	SPKR1+	Speaker audio signal cable+
14	SPKR1-	Speaker audio signal cable-
15	5VD	Power supply
16	PRST	Reset signal

Pin No.	Name	Description
17	KB_C0	Matrix keyboard
18	KB_C1	
19	KB_C2	
20	KB_C3	
21	B_R0	
22	B_R1	
23	B_R2	
24	CSLED	Backlight control IC chip select
25	CLOC	Backlight control IC clock
26	DATA	Backlight control IC data
27	OE_LCD	LCD read enable
28	WE_LCD	LCD write enable
29	CS2_LCD	LCD chip select
30	F_A1_LCD	LCD register select enable
31	F_D7	LCD data bus
32	F_D6	
33	F_D5	
34	F_D4	
35	F_D3	
36	F_D2	
37	F_D1	LCD data bus
38	F_D0	
39	GND	Grounding
40	PWB_IN	Power On/Off signal

8. Tuning Description

8.1 Required Test Instruments

- Radio communication test sets: HP8921 and Aeroflex 3920
- Power supply: 15 A/30 V
- Multimeter
- Tuner software

8.2 Tuning Procedures

8.2.1 Tuning the Radio

After re-assembling the radio, you need to tune it with the Tuner software and HP8921.

The specific operations are described in the table below. After tuning the items of the current channel, you must switch the radio to the next channel; otherwise, the adjustments will not be saved to the radio properly.

Items	Method
TX Section	
Reference Oscillator Warp	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Reference Oscillator Warp” in the left navigation tree. Then click the “Transmit On” button. 3. Adjust the vernier on the Tuner until the frequency offset between the frequency displayed on HP8921 and the frequency (Tx) displayed on Tuner is less than or equals to ±40 Hz. 4. Click the “Save” button on Tuner to save the existing value to the radio. 5. Click the “Transmit Off” button on Tuner.
Transmit Power Calibration	Here takes the tuning of low TX power for example. 1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit Power Calibration” in the left navigation tree. Then select an appropriate channel.

Items	Method
	3. Click the “Transmit On” button on Tuner. 4. Adjust the power to the required level as follows: Low power: 1 W (for version D/F); 5 W (for version H or later) Medium power: 25 W High power: 45 W 5. Click the “Save” button on Tuner to save the existing value to the radio.
Transmit-to-Deviation	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Set the parameters on the HP8921 as follows: IF Filter: 230 kHz Filter1: <20 Hz HPF Filter2: <15 kHz LPF De-Emphasis: off 3. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit-to-Deviation” in the left navigation tree. Then click the “Transmit On” button. Then set the modulation signal of HP8921 to “100 Hz”. 4. Adjust the vernier on Tuner until the frequency deviation displayed on HP8921 is “5 kHz”. 5. Click the “Save” button on Tuner to save the existing value to the radio. 6. Click the “Transmit Off” button on Tuner.
Modulation Balance	Here takes the low frequency deviation for example. 1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Set the parameters on the HP8921 as follows: IF Filter: 230 kHz Filter1: <20 Hz HPF Filter2: <15 kHz LPF De-Emphasis: off 3. Open the Tuner software and go to “TUNE_DATA -> TX -> Modulation Balance” in the left navigation tree. Then select an appropriate channel. 4. Click the “Transmit On” button on Tuner. Then set the modulation signal

Items	Method
	of HP8921 to “100 Hz”. 5. Adjust the value in the dialog box on Tuner until the frequency deviation displayed on HP8921 is “5 kHz”. 6. Press the **Enter** key on the keyboard to confirm your settings. 7. Click the “Save” button on Tuner to save the existing value to the radio. 8. Click the “Transmit Off” button on Tuner.
Transmit Oscillator Voltage	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit Oscillator Voltage” in the left navigation tree. 3. Click the “Save” button to save the existing value to the radio.
RX Section	
Front-end Filter	1. Connect the radio to HP8921 via the antenna connector. 2. Connect the Audio Out port of the radio to the Audio In port of HP8921, and set HP8921 to RX test mode. 3. Set the parameters on the HP8921 as follows: Output RF signal: -118 dBm/Frequency (current channel frequency) Modulation frequency: 1 kHz Modulation deviation: 3 kHz 4. Open the Tuner software and go to “TUNE_DATA -> RX -> Front-end Filter” in the left navigation tree. Adjust the vernier on Tuner until the “SINAD” value displayed on HP8921 is greater than 14 dB. 5. Set the output RF signal of HP8921 to -25 Bm/ (current channel frequency -36.675 MHz). 6. Adjust the vernier on Tuner until the “SINAD” value displayed on HP8921 is less than 14 dB. 7. Press the **Enter** key on the keyboard to confirm your settings. 8. Click the “Save” button on Tuner to save the existing value to the radio.
Front-end Gain	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to RX test mode.

Items	Method
	2. Set HP8921 to output an unmodulated RF signal with a value of "-70 dBm/Frequency (current channel frequency)". 3. Press the **Enter** key on the keyboard to confirm your settings. 4. Click the "Save" button on Tuner to save the existing value to the radio.
Receive Oscillator Voltage	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to RX test mode. 2. Open the Tuner software and go to "TUNE_DATA -> RX -> Receive Oscillator Voltage" in the left navigation tree. 3. Set HP8921 to output an unmodulated RF signal with a value of "-47 dBm/Frequency (current channel frequency)". 4. Click the "Save" button to save the existing value to the radio.

8.2.2 Testing the Radio

After tuning all the items of the radio, you need to test the digital RF signal of the mobile radio via Aeroflex 3920 (Digital Radio Test set).

Transmitting

Step 1 Connect the mobile radio to Aeroflex 3920 via the antenna connector.

Step 2 Open the Tuner software and go to "TEST -> TX -> Transmit BER (0.153)".

Step 3 Select the channel to be tested and select the corresponding power level (High Power or Low Power) in "Parameter" on Tuner.

Step 4 Click the "Transmit On" button on Tuner.

Step 5 Set the parameters on the Aeroflex 3920 as follows:

- Frq: Be consistent with the TX frequency of the channel to be tested.
- STD IB 511: .153

Step 6 Observe the "avg" value of "UUT TX Bit Err" parameter in "UUT Measurements" module of Aeroflex 3920, which is the average bit error rate of the tested channel during transmitting.

The radio is operating properly when the Aeroflex 3920 parameters are as follows:

- FSK Error: ≤5%
- Symbol Clock Err: ≤100 Hz
- Signal Power: 3.9 – 4.5W
- Magnitude Error: ≤1%

- UUT TX Bit Err = 0%

Step 7 Click the “Transmit Off” button on Tuner to finish testing.

Receiving

Step 1 Connect the antenna connector of the radio to the RF port of Aeroflex 3920, and set Aeroflex 3920 as follows (remain default values for other parameters):

- Frq: Be consistent with the frequency of the channel to be tested.
- STD IB 511: .153
- Lv1 (signal strength): -116 dBm (-110 dBm by default)

Step 2 Open the Tuner software and go to “TEST -> RX -> Receiver BER (0.153)”.

Step 3 Select the channel to be tested and click the “Start” button on Tuner.

Step 4 Observe the “Average Rate” displayed on Tuner.

You can set different “Average Num” (the calculation base of BER, which is “10” by default) to obtain different “Average Rate”.

Step 5 Modify the value of “Lv1” parameter of Aeroflex 3920, so as to obtain the average BERs of the tested channel under different signal strengths.

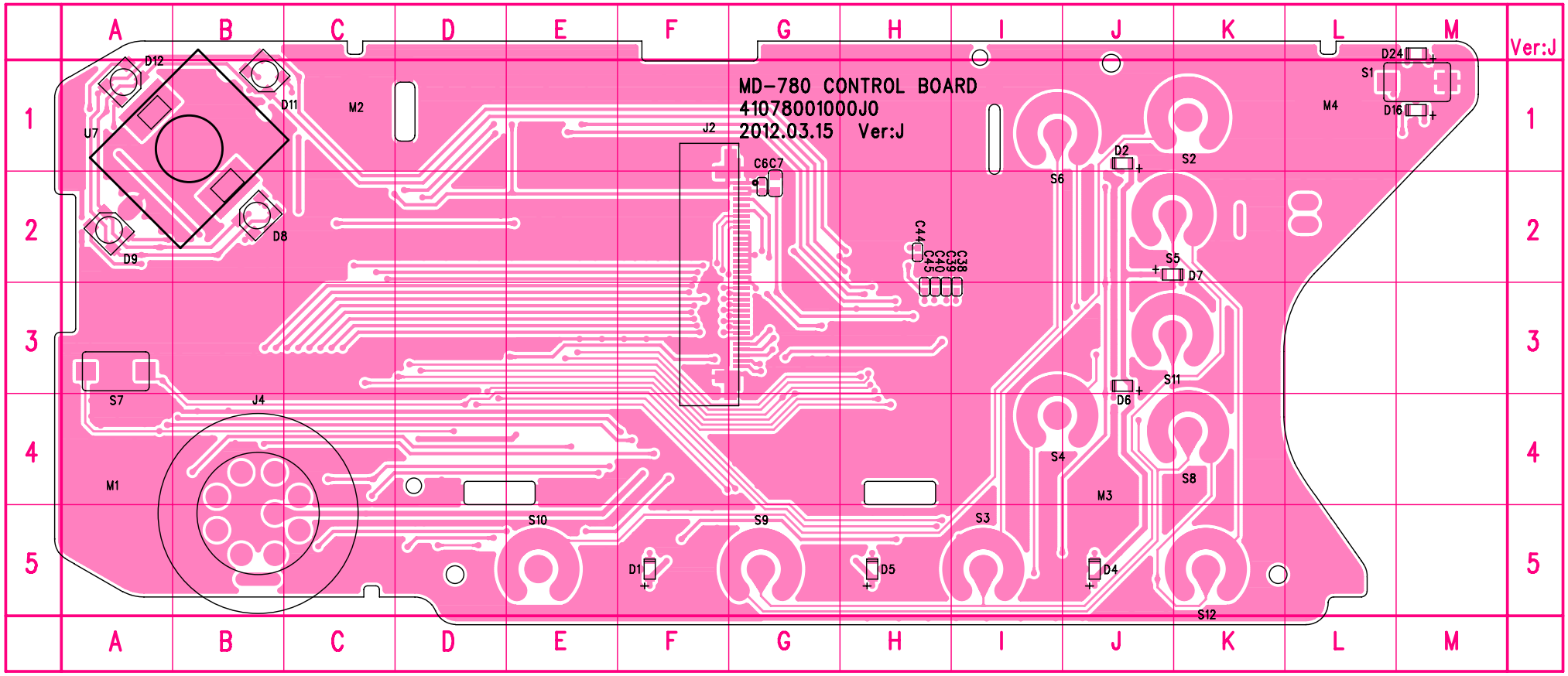
The mobile radio is operating properly when the average BER is less than 5%.

Note
When the parameter “Lv1” is set to “-110 dBm”, the mobile radio is operating properly when the average BER is less than 1%.

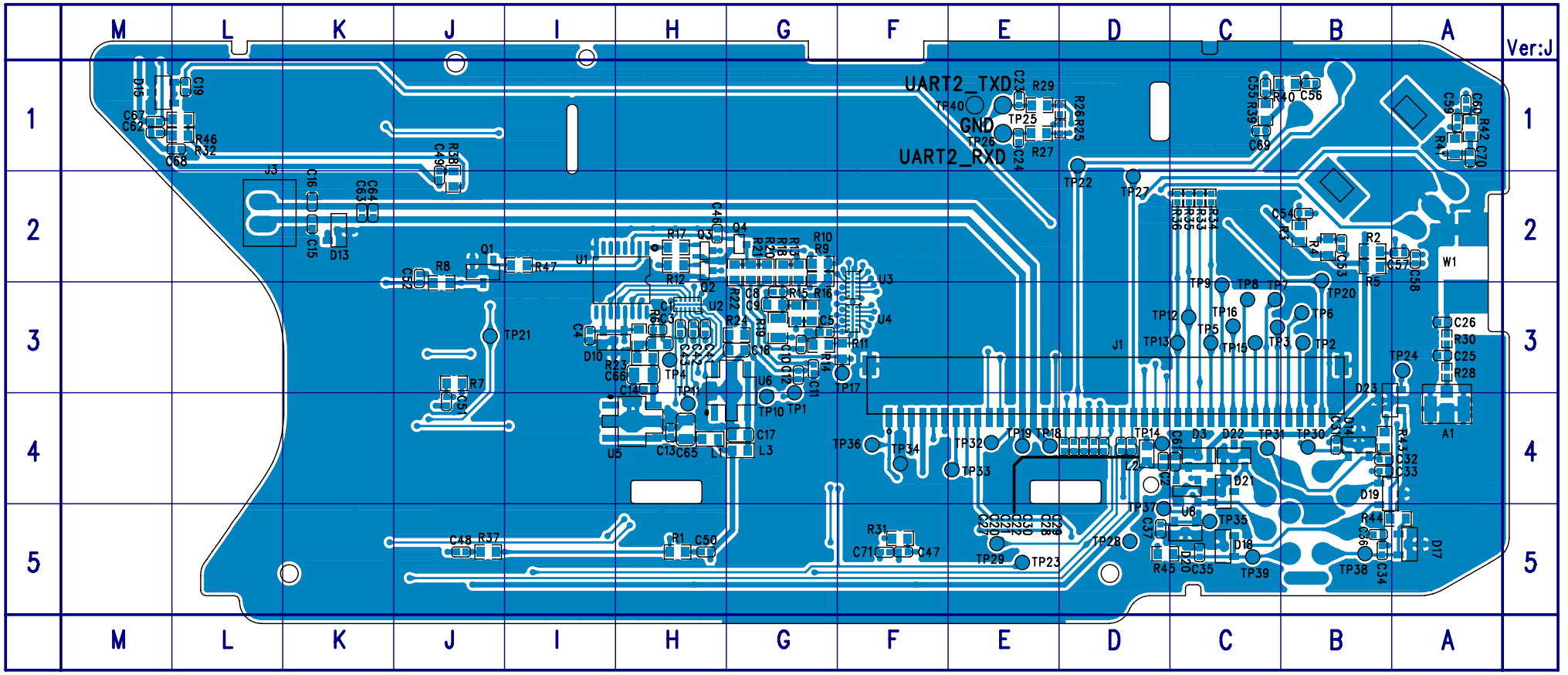
Step 6 Click the “Stop” button on Tuner to finish testing.

9. PCB View

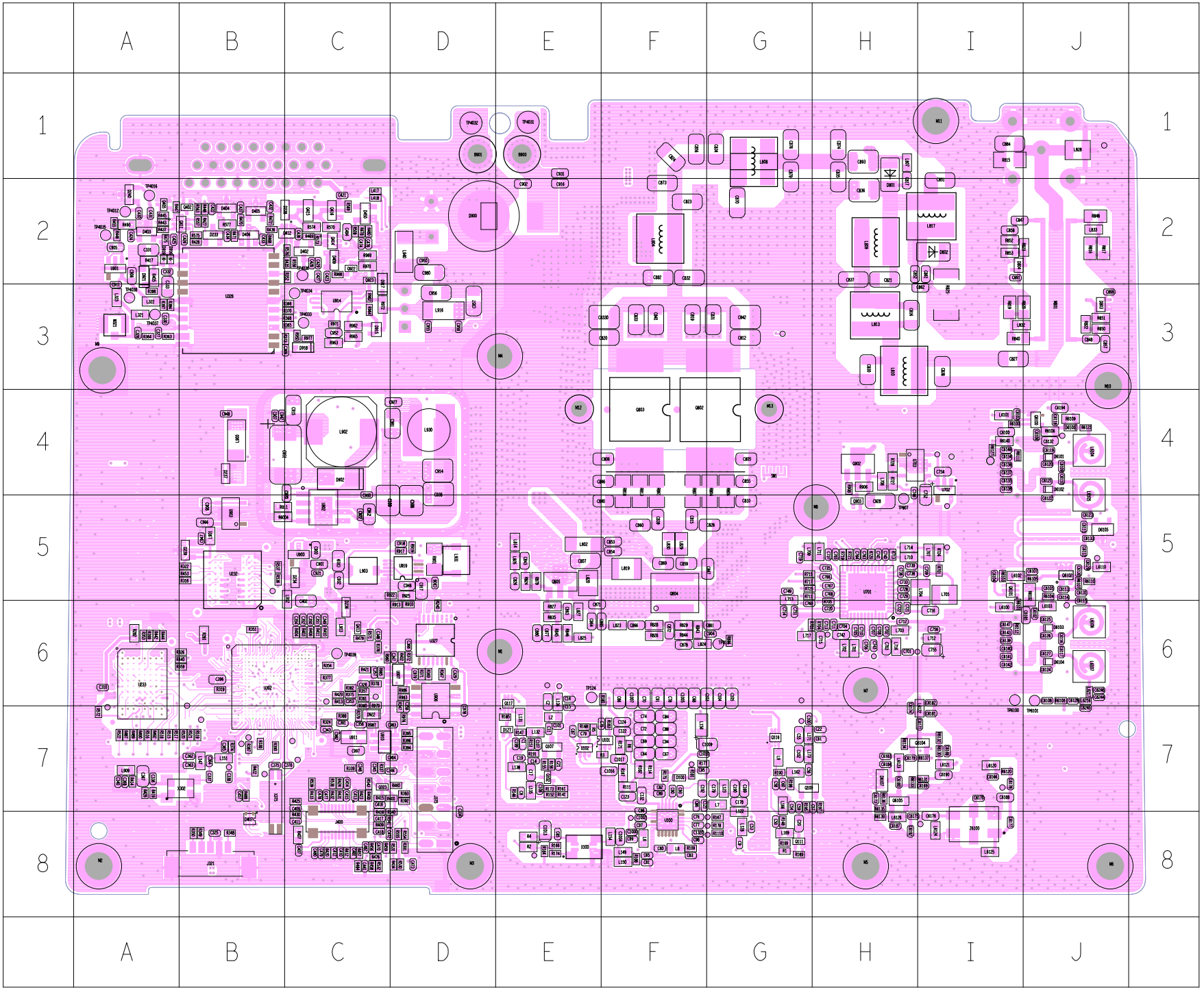
MD78X/MD78XG PCB View (Front Panel)
Top Layer



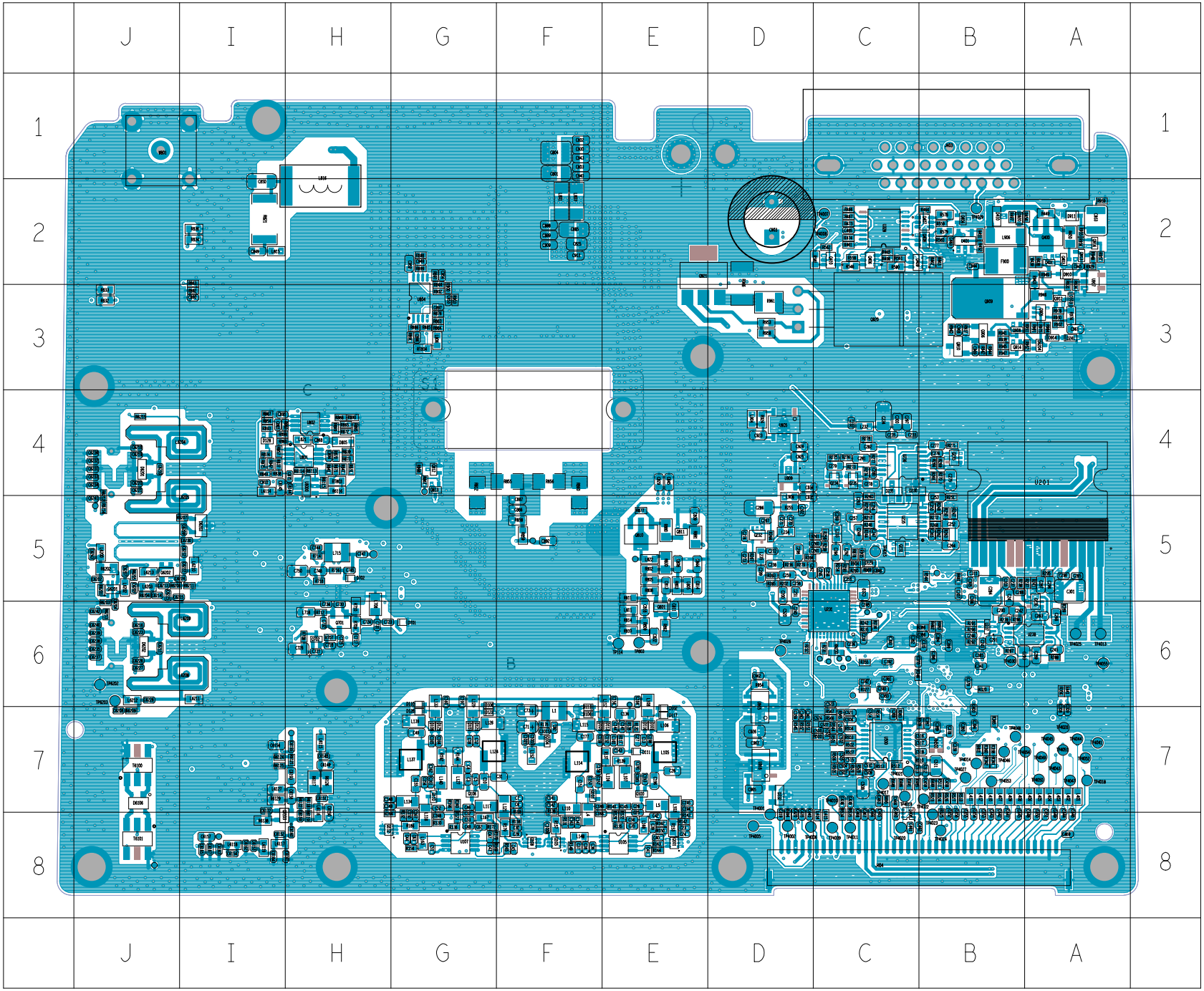
MD78X/MD78XG PCB View (Front Panel)
Bottom Layer



MD78X/MD78XG PCB View (Main Board) - Top Layer

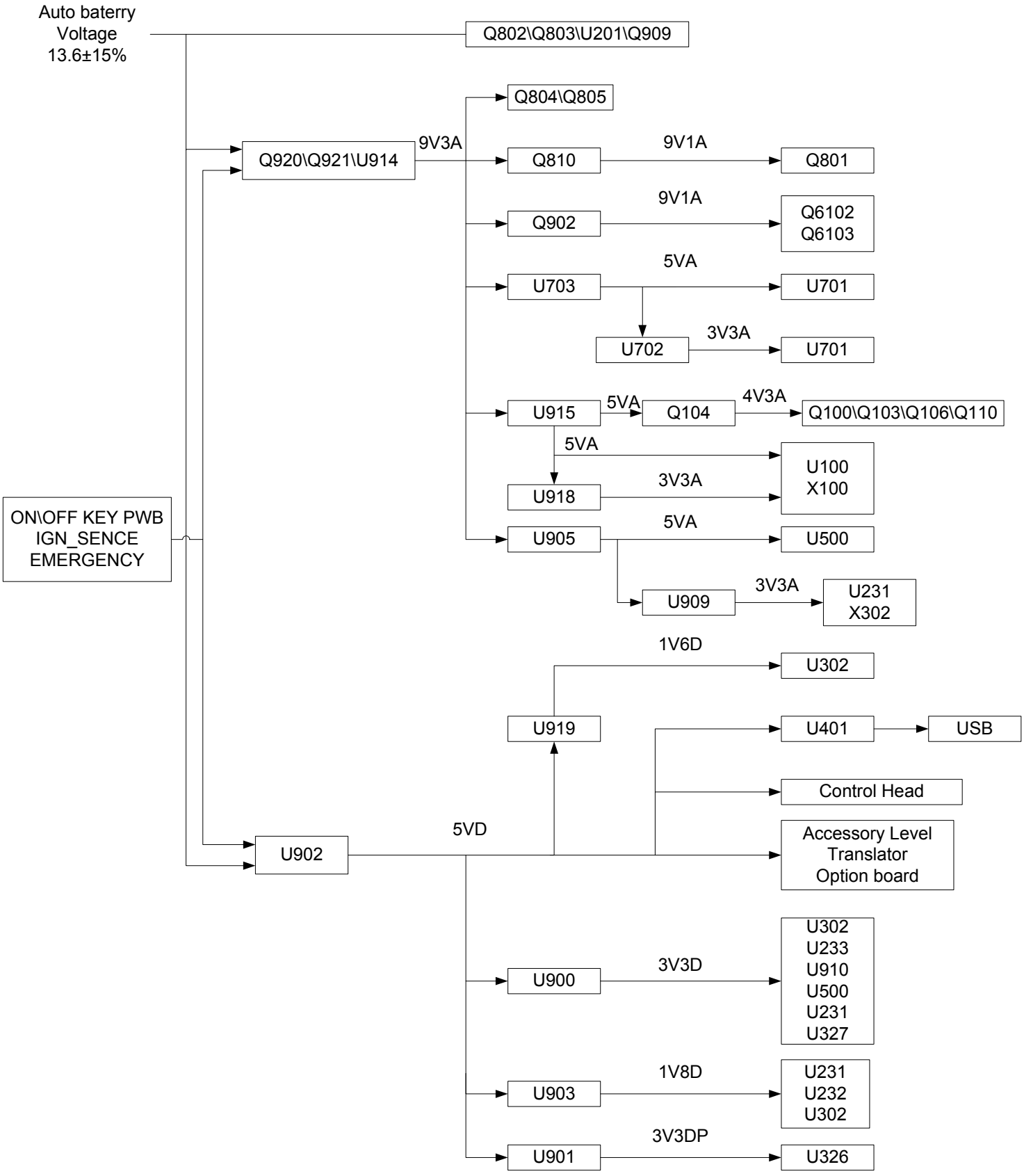


MD78X/MD78XG PCB View (Main Board)
Bottom Layer

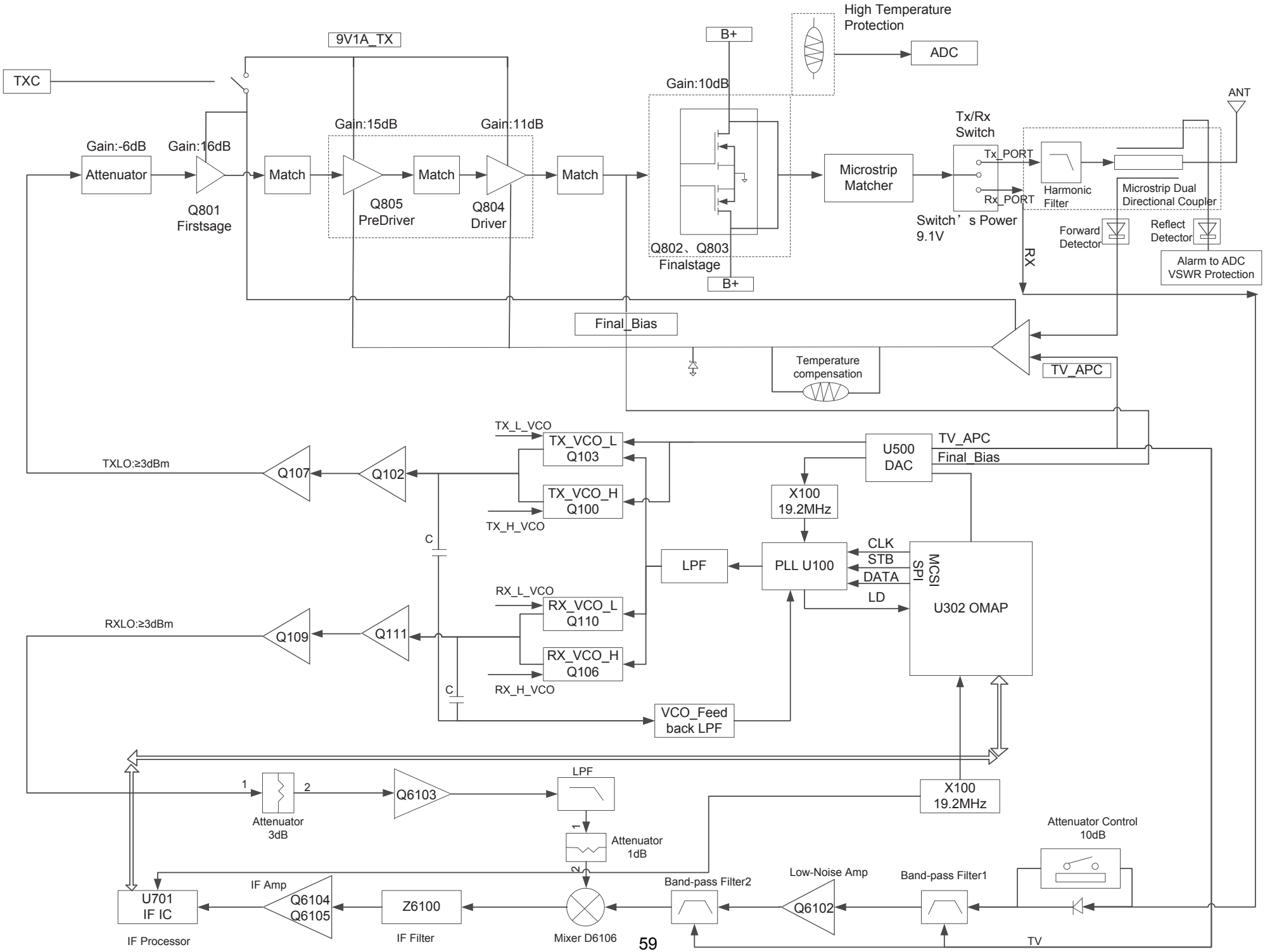


10. Block Diagram

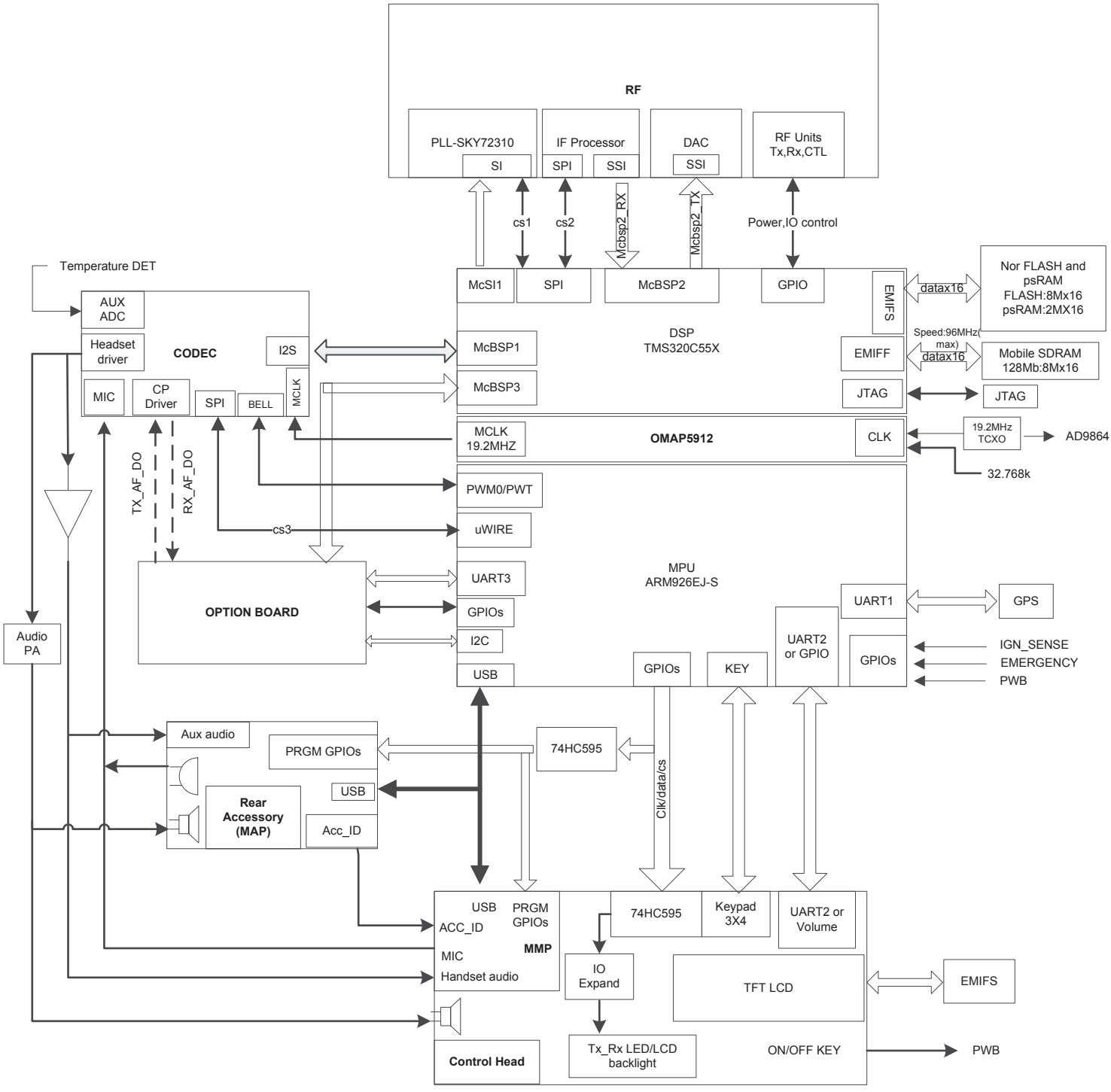
MD78X/MD78XG Block Diagram (Power Section)



MD78X/MD78XG Block Diagram (RF Section)

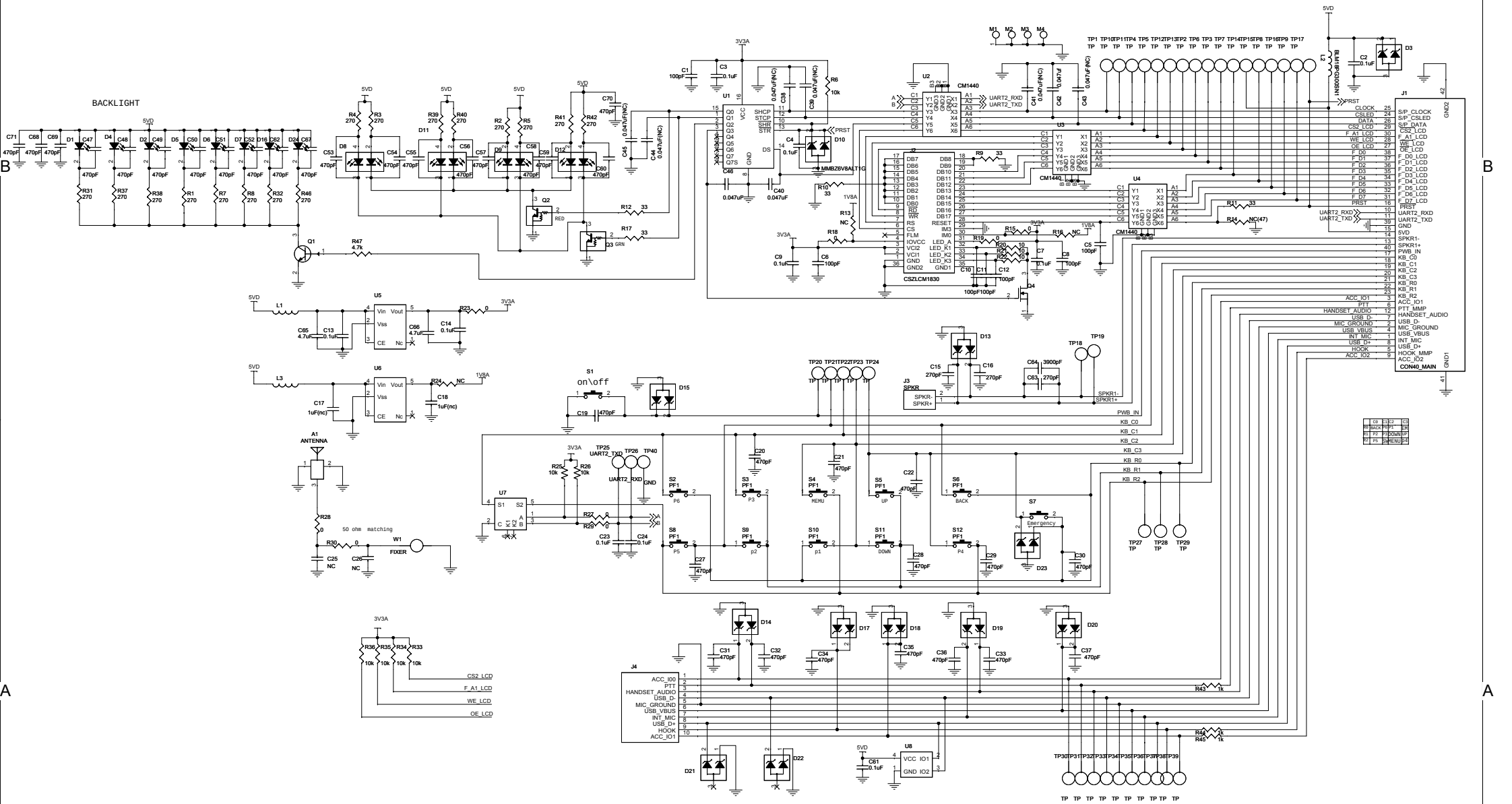


MD78X/MD78XG Block Diagram (Baseband Section)

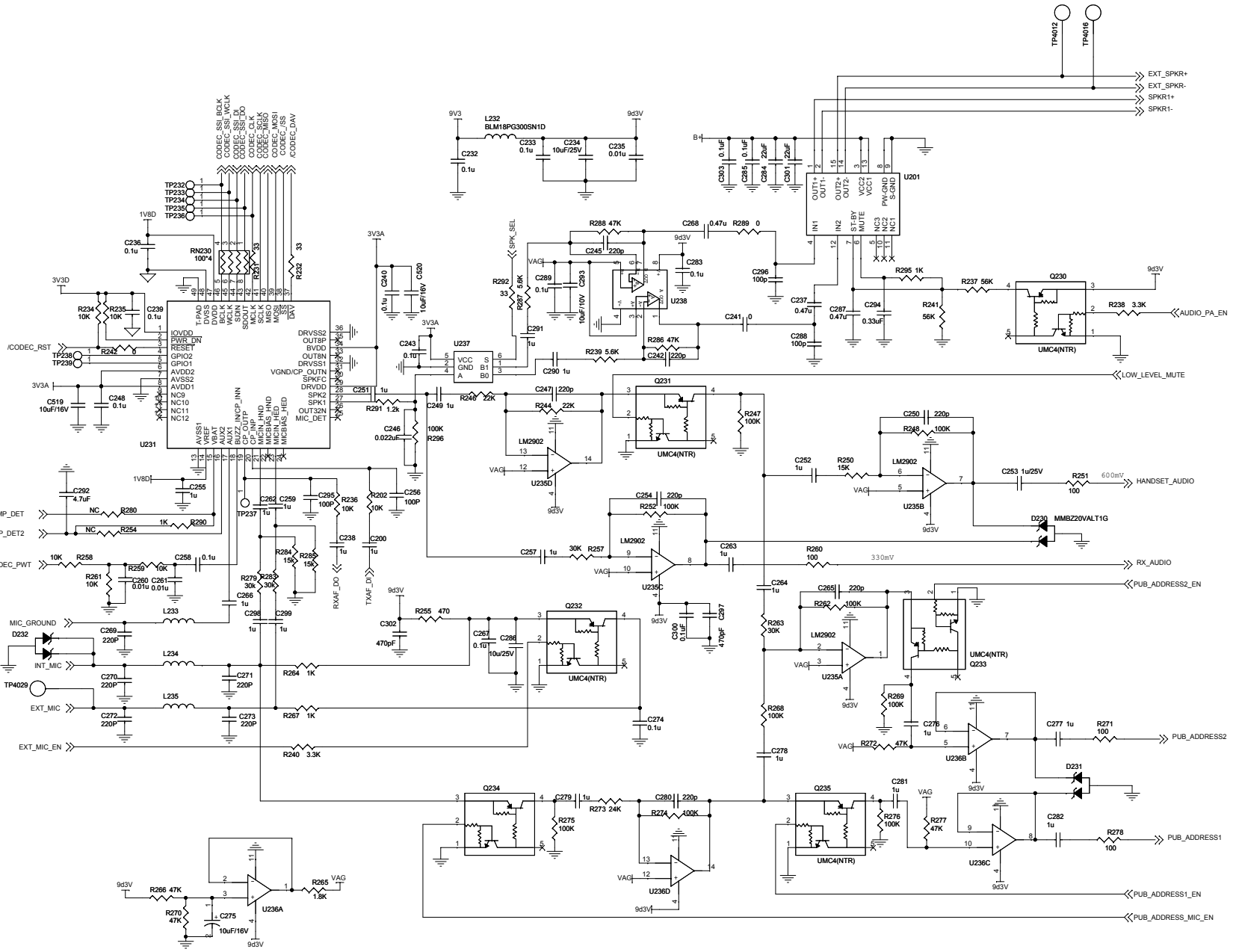


11. Schematic Diagram

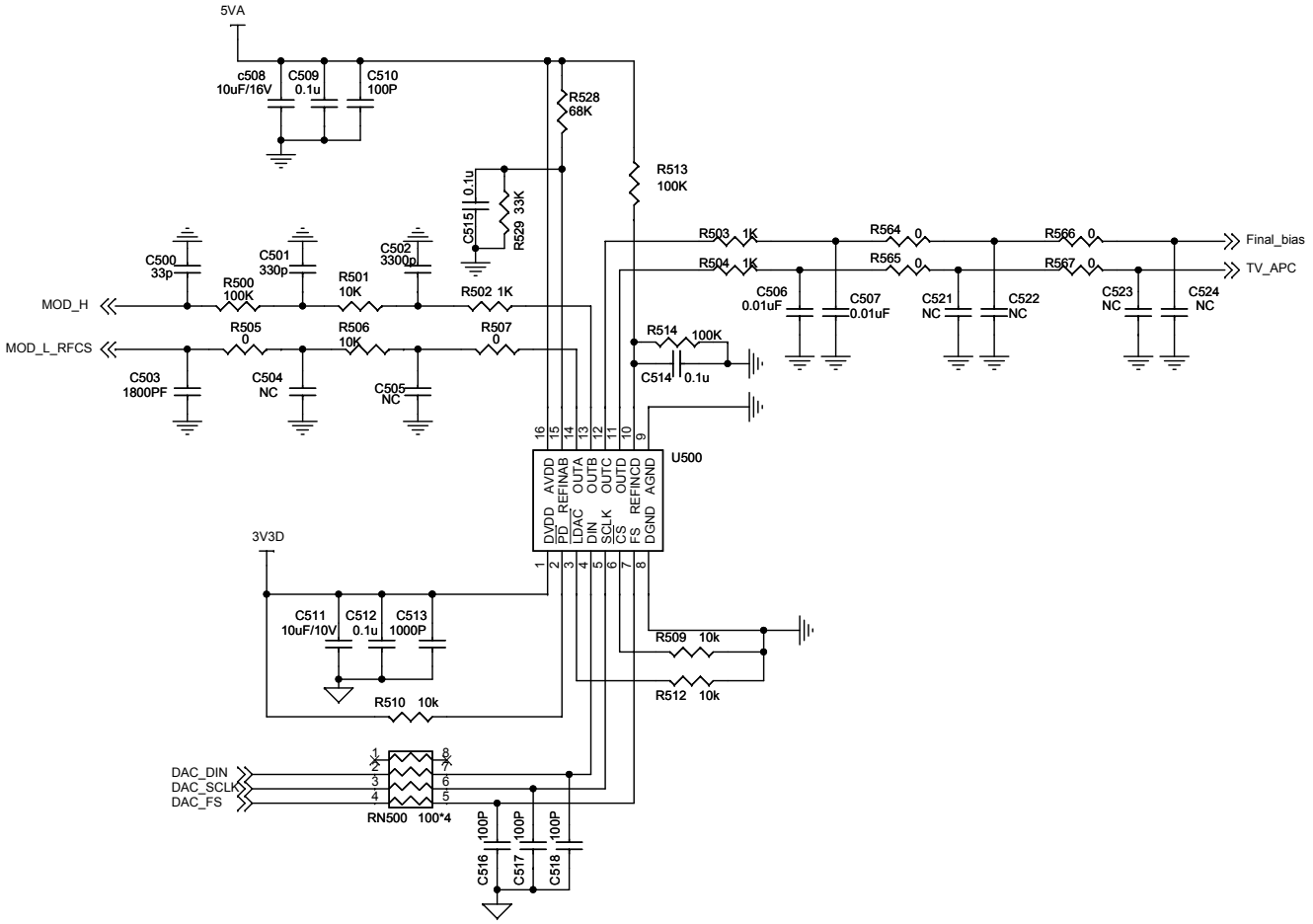
MD78X/MD78XG Schematic Diagram (Front Panel Circuit)



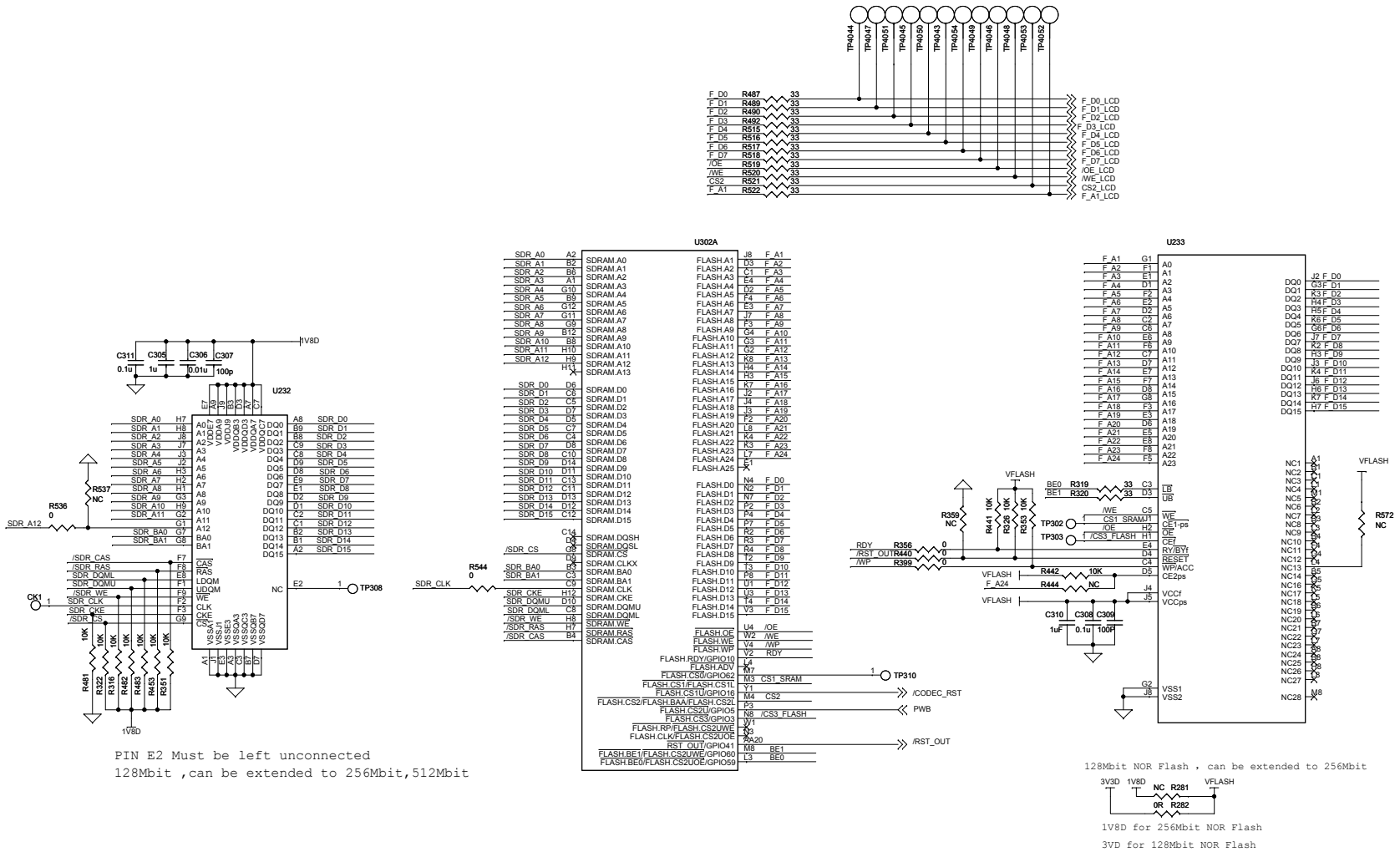
MD78X/MD78XG Schematic Diagram (Audio Circuit)



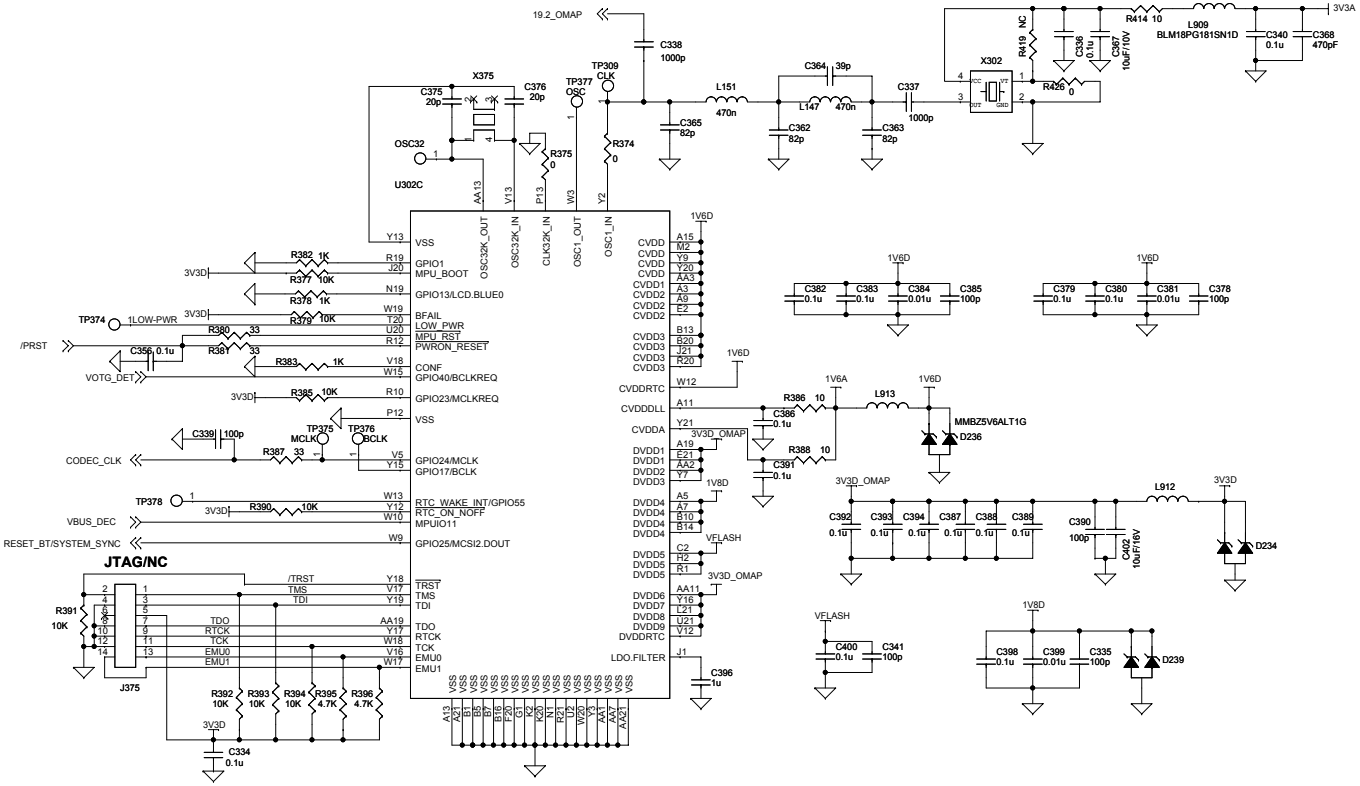
MD78X/MD78XG Schematic Diagram (DAC Circuit)



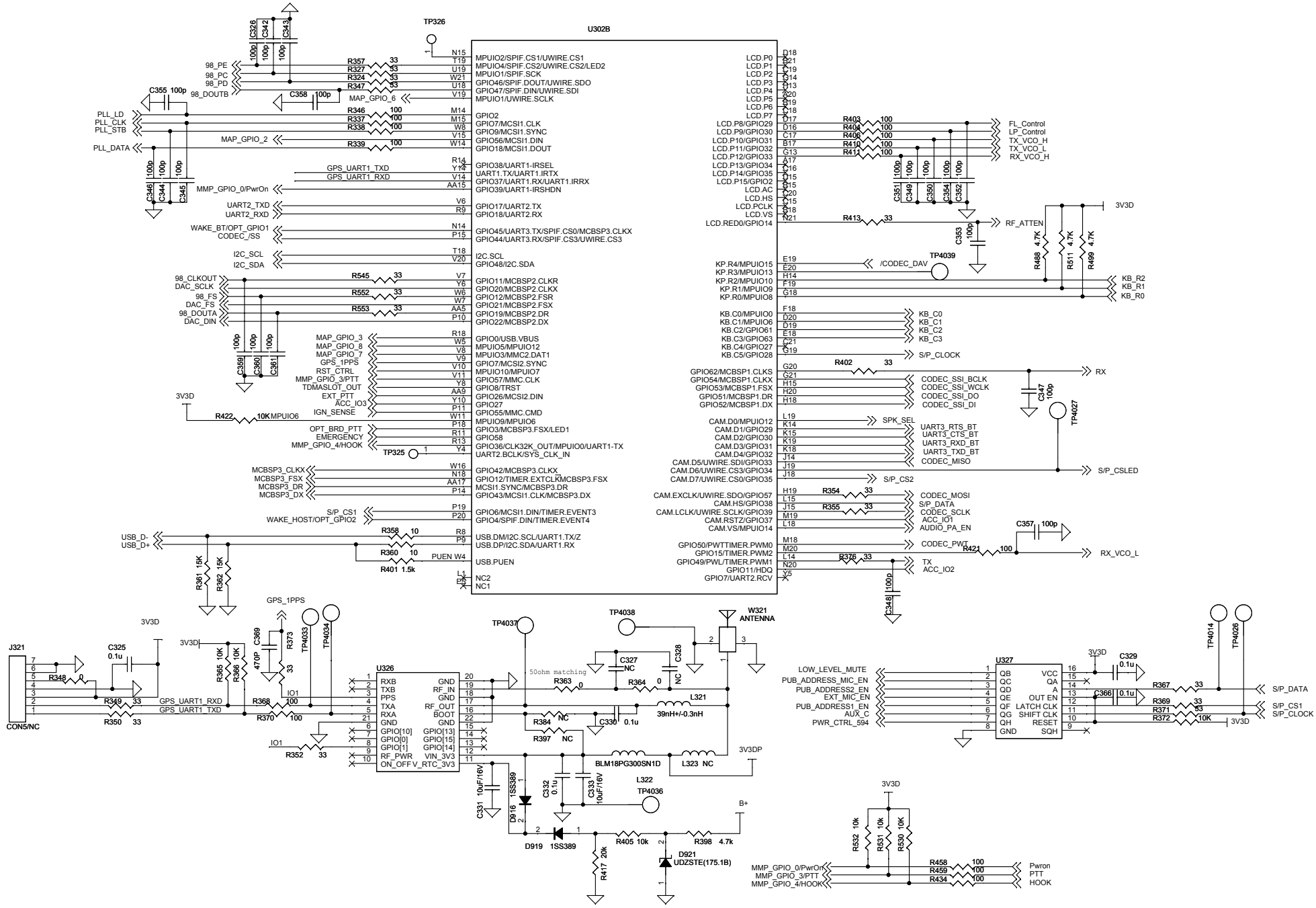
MD78X/MD78XG Schematic Diagram (Memory Circuit)



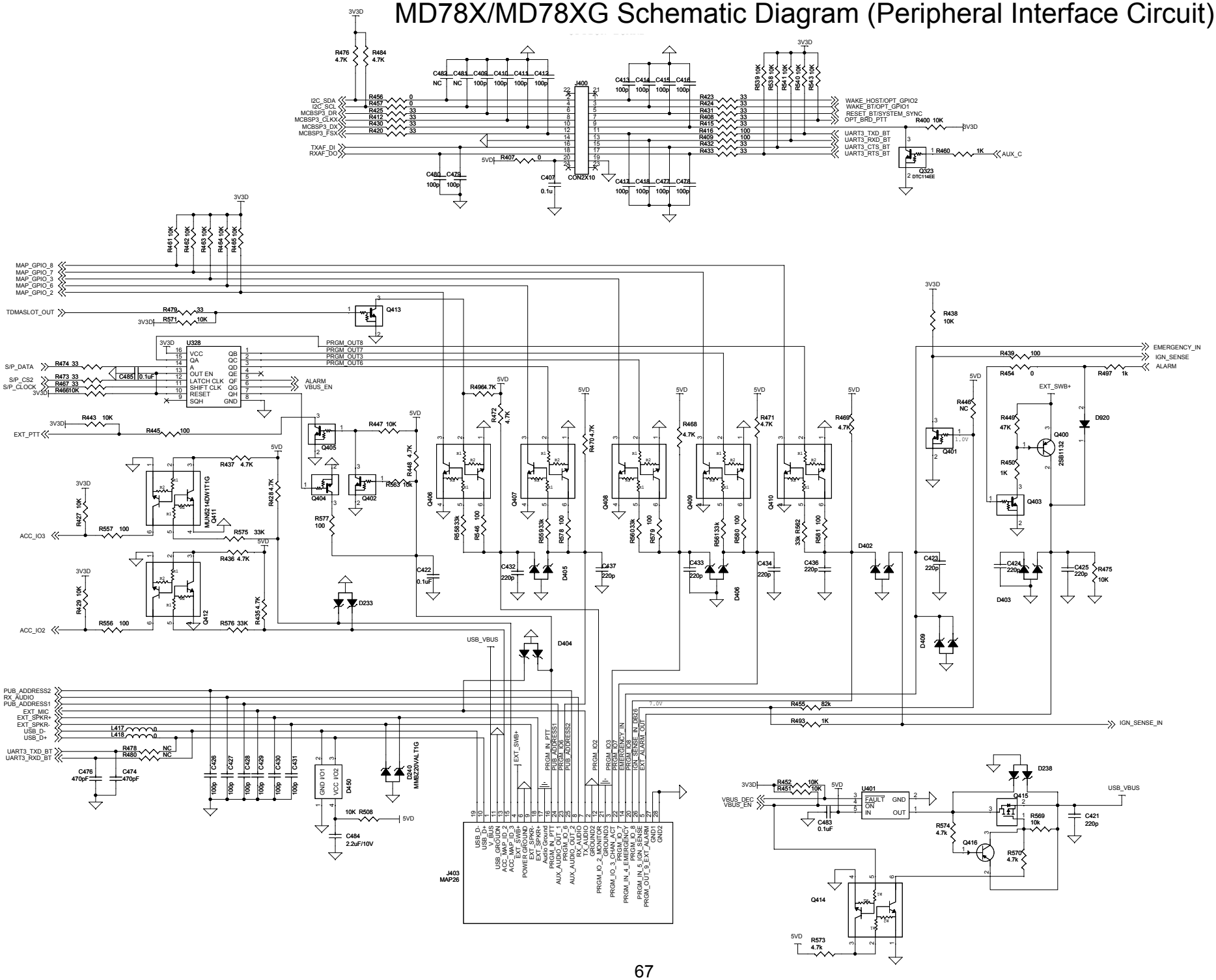
MD78X/MD78XG Schematic Diagram (OMAP Circuit)



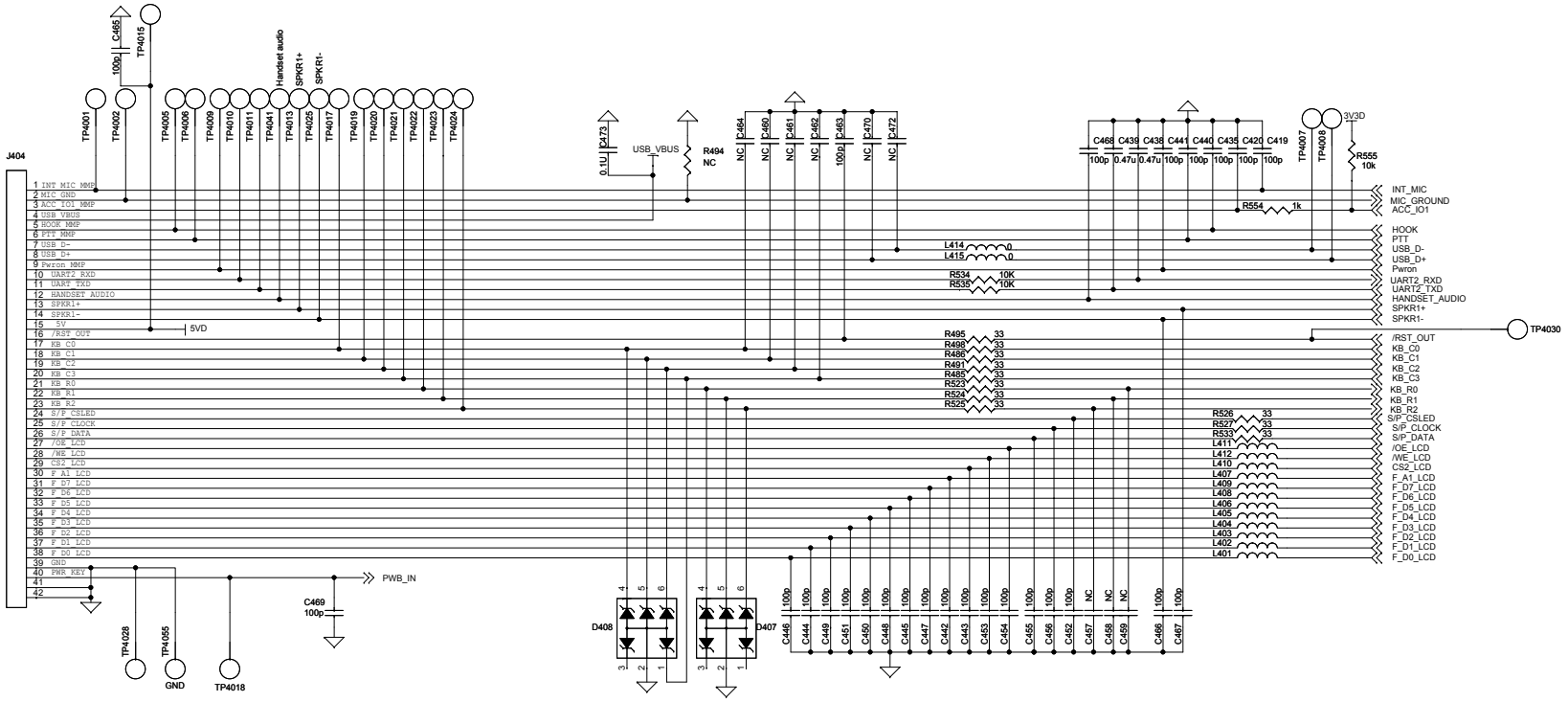
MD78X/MD78XG Schematic Diagram (OMAP & GPS Circuit)



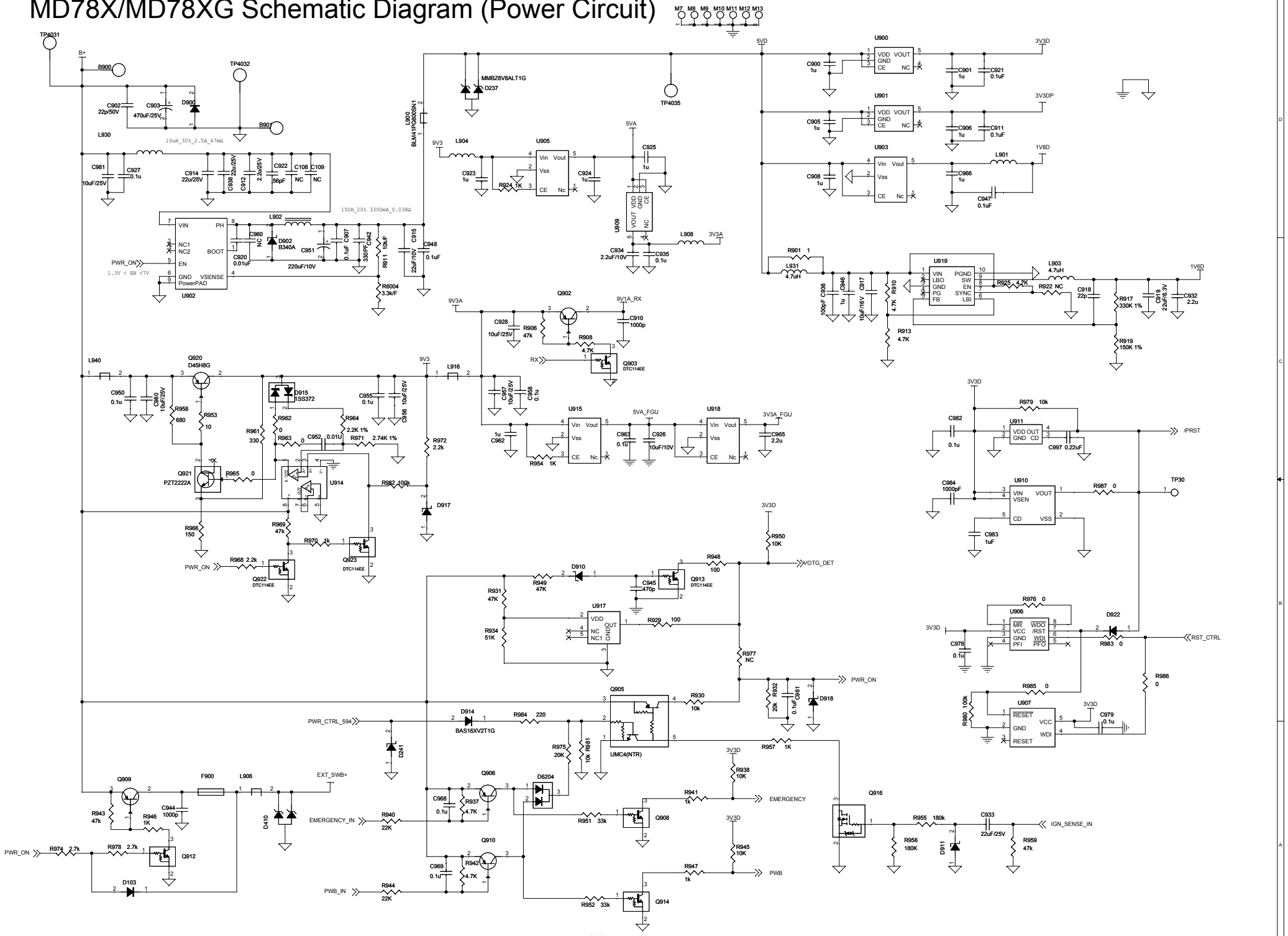
MD78X/MD78XG Schematic Diagram (Peripheral Interface Circuit)



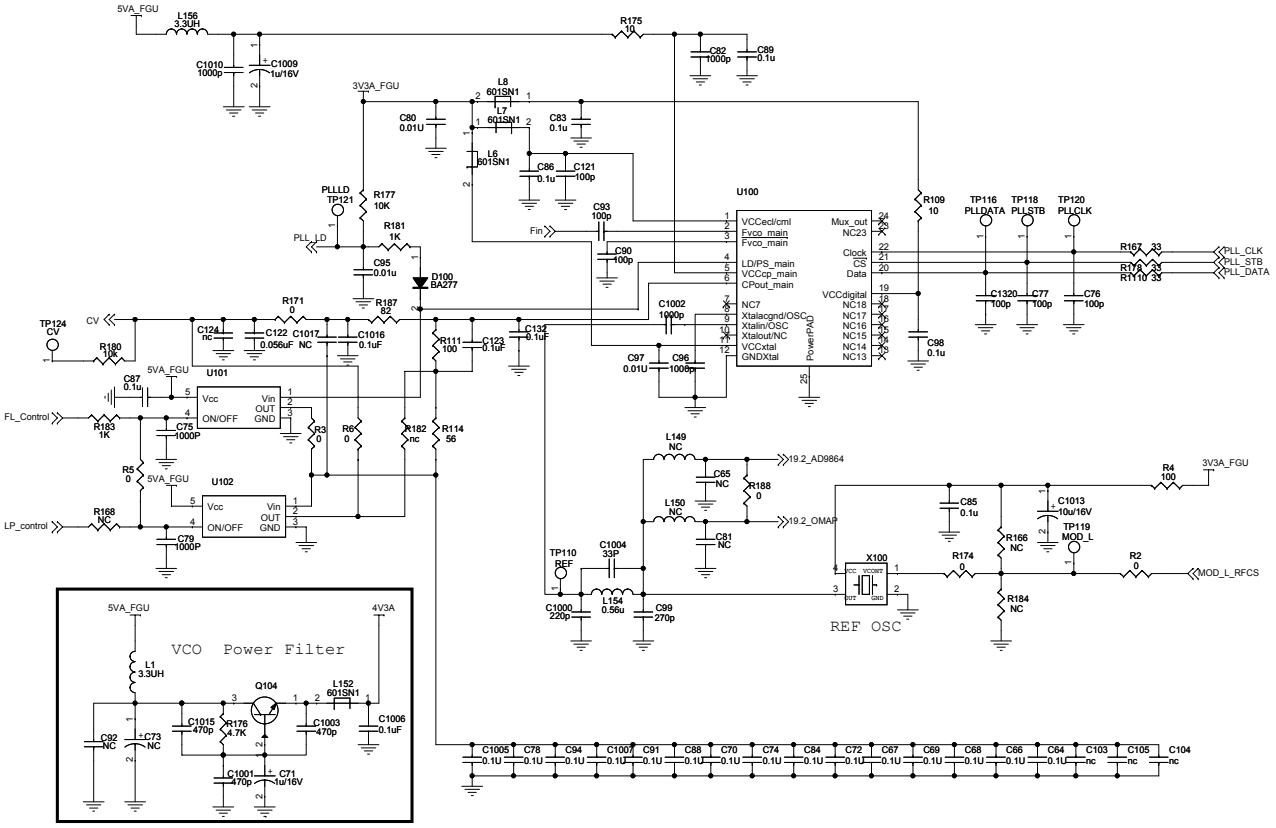
MD78X/MD78XG Schematic Diagram (40-Pin Interface Circuit)



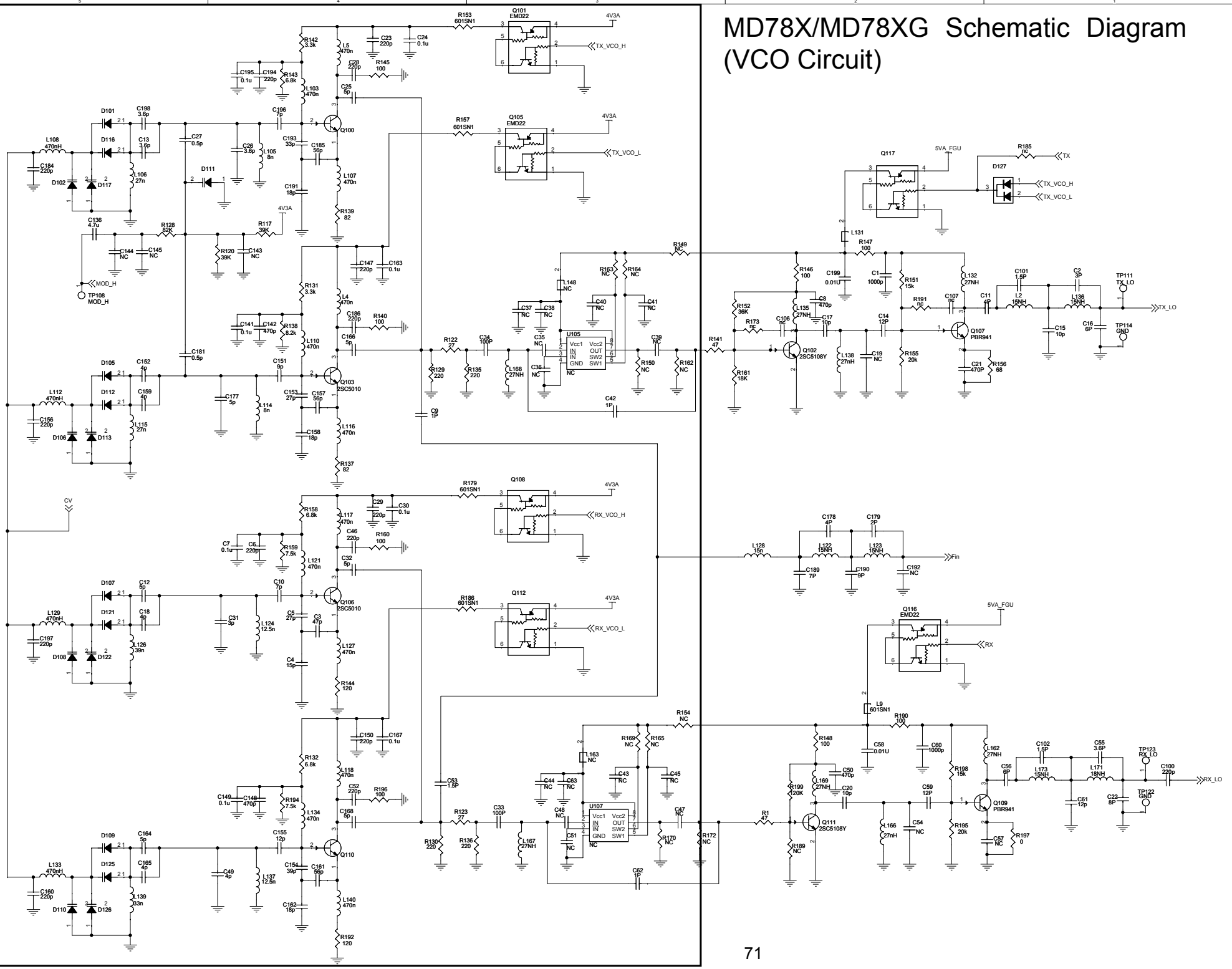
MD78X/MD78XG Schematic Diagram (Power Circuit)



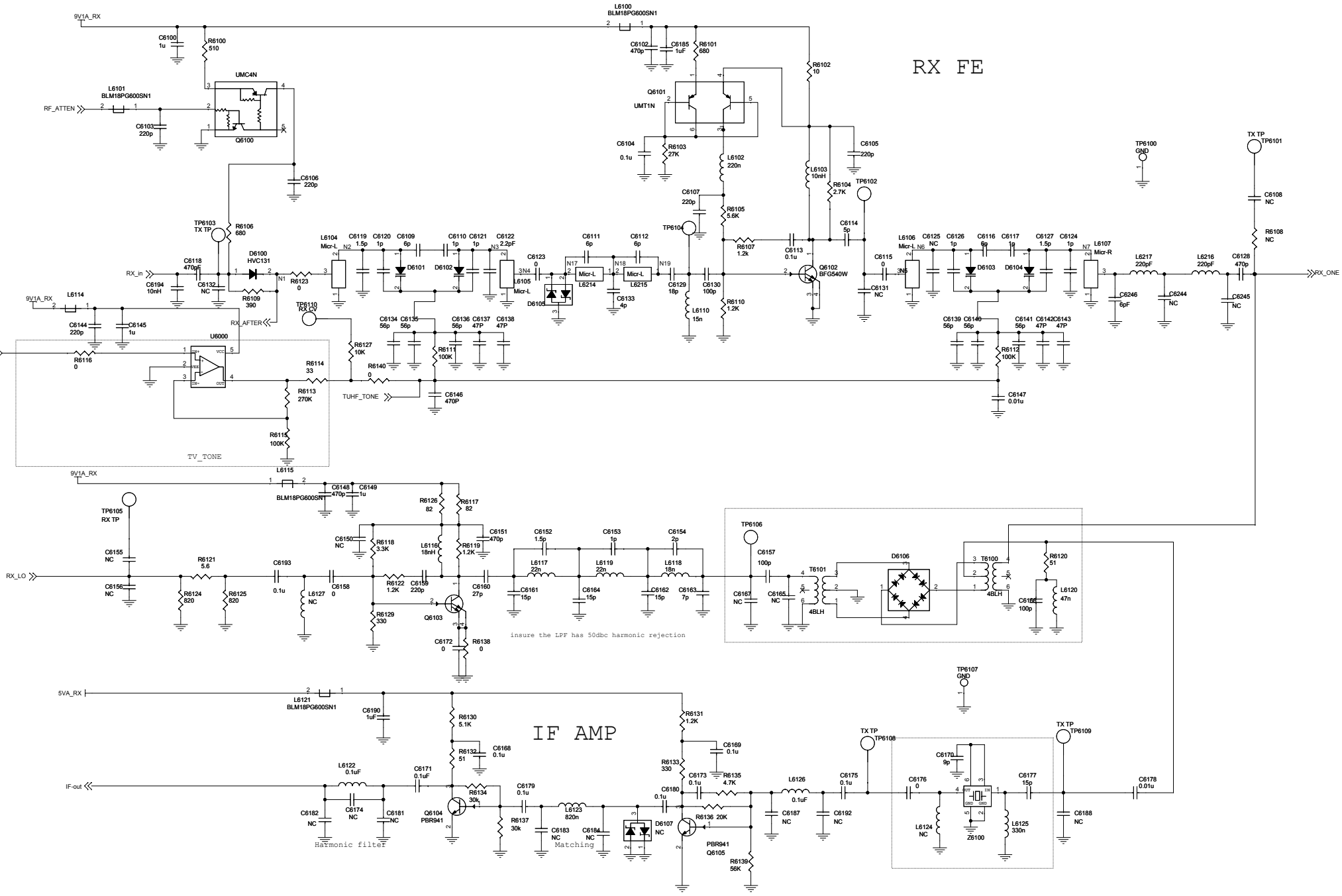
MD78X/MD78XG Schematic Diagram (PLL Circuit)



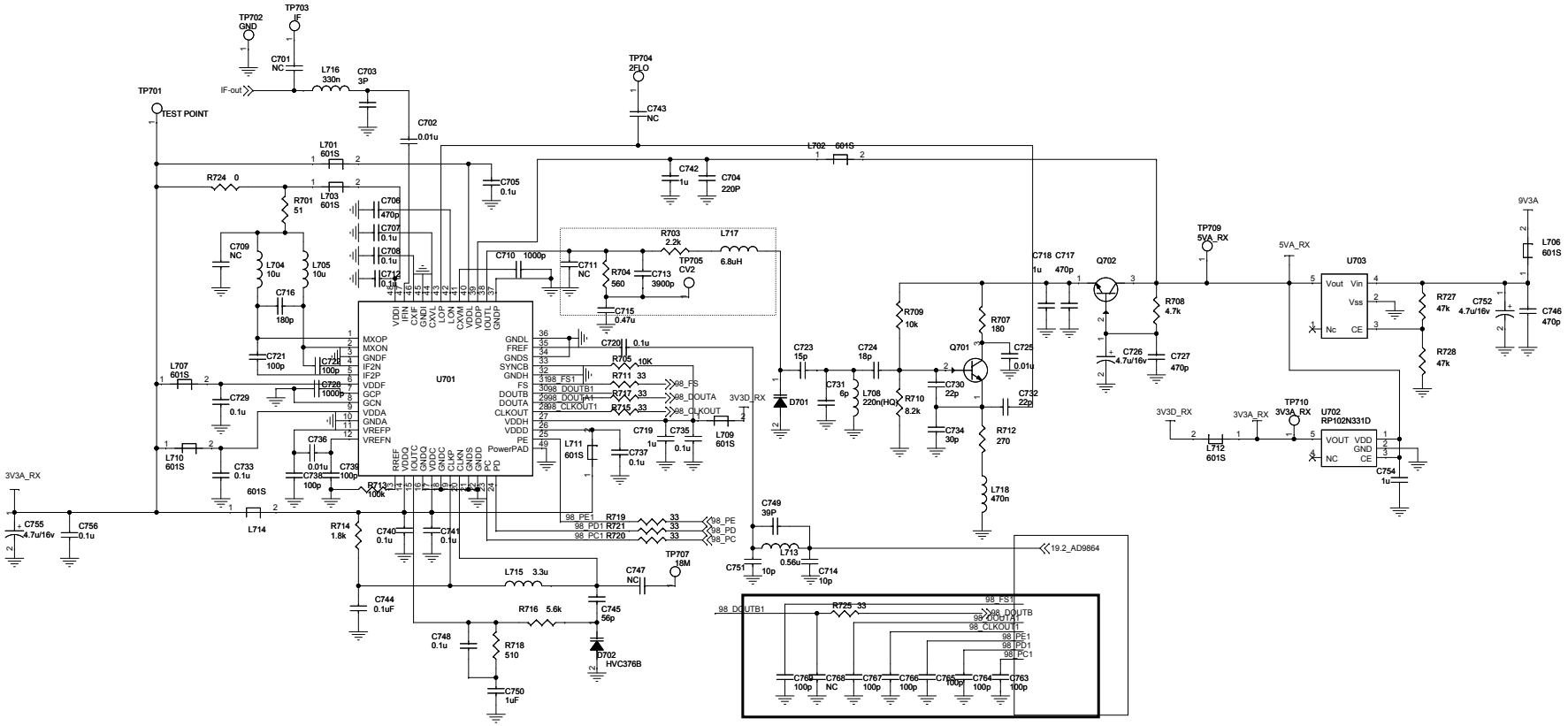
MD78X/MD78XG Schematic Diagram (VCO Circuit)



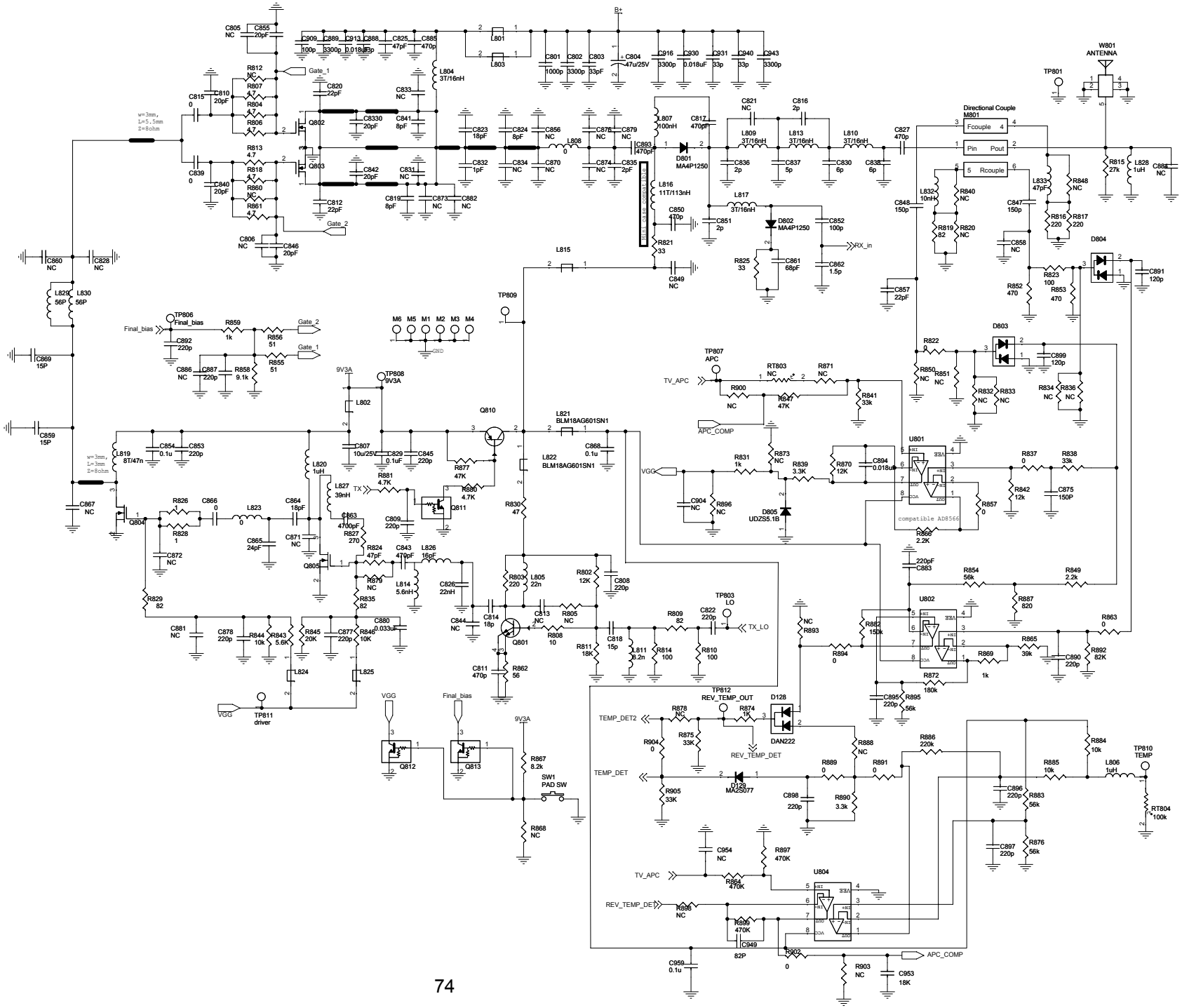
MD78X/MD78XG Schematic Diagram (RX Circuit)



MD78X/MD78XG Schematic Diagram (IF Circuit)



MD78X/MD78XG Schematic Diagram (TX Circuit)



12. Parts List

12.1 Front Panel

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	C1	B3H	3101051010030	100pF	72	D21	B4C	3310240000000	ESD protection diode
2	C10	B3G	3101051010030	100pF	73	D22	B4C	3310240000000	ESD protection diode
3	C11	B3G	3101051010030	100pF	74	D23	B4B	3310990000090	ESD protection diode
4	C12	B3G	3101051010030	100pF	75	D3	B4C	3310990000090	ESD protection diode
5	C13	B4H	3101051040010	0.1uF	76	D4	T5J	3307110100080	LED
6	C14	B3H	3101051040010	0.1uF	77	D5	T5H	3307110100080	LED
7	C15	B2K	3101052710000	270pF	78	D6	T3J	3307110100080	LED
8	C16	B2K	3101052710000	270pF	79	D7	T2J	3307110100080	LED
9	C19	B1L	3101054710010	470pF	80	D8	T2B	3307110300000	LED
10	C2	B4D	3101051040010	0.1uF	81	D9	T2A	3307110300000	LED
11	C20	B4D	3101054710010	470pF	82	J1	B4D	5206040200010	FFC connector
12	C21	B4D	3101054710010	470pF	83	J2	T2G	5206034200010	FPC connector
13	C22	B4D	3101054710010	470pF	84	L1	B4H	3221506300000	Ferrite bead
14	C23	B1E	3101051040010	0.1uF	85	L2	B4D	3221506300000	Ferrite bead
15	C24	B1E	3101051040010	0.1uF	86	PCB	/	41078001000J0	PCB control panel
16	C27	B4D	3101054710010	470pF	87	Q1	B2J	3414001000040	NPN transistor
17	C28	B4D	3101054710010	470pF	88	Q2	B2H	3403008000010	Transistor
18	C29	B4D	3101054710010	470pF	89	Q3	B2H	3403008000010	Transistor
19	C3	B3H	3101061040010	0.1uF	90	Q4	B2G	3599990000610	N-MOSFET
20	C30	B4D	3101054710010	470pF	91	R1	B5H	3001062710000	270Ω
21	C31	B4B	3101054710010	470pF	92	R10	B2G	3001063300000	33Ω
22	C32	B4B	3101054710010	470pF	93	R11	B3F	3001063300000	33Ω
23	C33	B4B	3101054710010	470pF	94	R12	B2H	3001063300000	33Ω
24	C34	B5B	3101054710010	470pF	95	R15	B3G	3001060000000	0Ω
25	C35	B5C	3101054710010	470pF	96	R17	B2H	3001063300000	33Ω
26	C36	B5B	3101054710010	470pF	97	R18	B2G	3001060000000	0Ω
27	C37	B5D	3101054710010	470pF	98	R19	B3G	3001070000000	0Ω
28	C39	T3H	3101055620010	5600pF	99	R2	B2B	3001062710000	270Ω
29	C4	B3I	3101054740020	0.47uF	100	R20	B2G	3001061000000	10Ω
30	C46	B2H	3101054730000	0.047uF	101	R21	B2G	3001061000000	10Ω
31	C47	B5F	3101054710010	470pF	102	R22	B2G	3001061000000	10Ω
32	C48	B5J	3101054710010	470pF	103	R23	B3H	3001060000000	0Ω
33	C49	B2J	3101054710010	470pF	104	R25	B1D	3001051030000	10k Ω
34	C5	B3G	3101051010030	100pF	105	R26	B1D	3001051030000	10k Ω
35	C50	B5H	3101054710010	470pF	106	R27	B1E	3001060000000	0Ω
36	C51	B4J	3101054710010	470pF	107	R28	B3A	3001050000000	0Ω
37	C52	B2J	3101054710010	470pF	108	R29	B1E	3001060000000	0Ω
38	C53	B2B	3101054710010	470pF	109	R3	B2B	3001062710000	270Ω
39	C54	B2B	3101054710010	470pF	110	R30	B3A	3001050000000	0Ω
40	C55	B1C	3101054710010	470pF	111	R31	B5F	3001062710000	270Ω
41	C56	B1B	3101054710010	470pF	112	R32	B1L	3001062710000	270Ω
42	C57	B2A	3101054710010	470pF	113	R33	B2C	3001051030000	10k Ω
43	C58	B2A	3101054710010	470pF	114	R34	B2C	3001051030000	10k Ω
44	C59	B1A	3101054710010	470pF	115	R35	B2C	3001051030000	10k Ω
45	C6	T2G	3101051010030	100pF	116	R36	B2C	3001051030000	10k Ω
46	C60	B1A	3101054710010	470pF	117	R37	B5J	3001062710000	270Ω
47	C61	B4C	3101051040010	0.1uF	118	R38	B2J	3001062710000	270Ω
48	C62	B1M	3101054710010	470pF	119	R39	B1C	3001062710000	270Ω
49	C63	B2K	3101052710000	270pF	120	R4	B2B	3001062710000	270Ω
50	C64	B2K	3101053920000	3900pF	121	R40	B1B	3001062710000	270Ω
51	C65	B4H	3101074750000	4.7uF	122	R41	B1A	3001062710000	270Ω
52	C66	B3H	3101074750000	4.7uF	123	R42	B1A	3001062710000	270Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
53	C67	B1M	3101054710010	470pF	124	R43	B4B	3001061020010	1kΩ
54	C68	B1L	3101054710010	470pF	125	R44	B5A	3001061020010	1kΩ
55	C69	B1C	3101054710010	470pF	126	R45	B5D	3001061020010	1kΩ
56	C7	T2G	3101061040010	0.1uF	127	R46	B1L	3001062710000	270Ω
57	C70	B1A	3101054710010	470pF	128	R47	B2I	3001061020010	1kΩ
58	C71	B5F	3101054710010	470pF	129	R5	B2B	3001062710000	270Ω
59	C8	B3G	3101051010030	100pF	130	R6	B3H	3001061030010	10kΩ
60	C9	B3G	3101061040010	0.1uF	131	R7	B3J	3001062710000	270Ω
61	D1	T5F	3307110100080	LED	132	R8	B3J	3001062710000	270Ω
62	D10	B3I	3310990000090	ESD protection diode	133	R9	B2G	3001063300000	33Ω
63	D11	T1B	3307110300000	LED	134	S1	T1M	4301080000090	Momentary contact switch
64	D12	T1A	3307110300000	LED	135	S7	T3A	4301080000090	Momentary contact switch
65	D13	B2K	3310240000000	ESD protection diode	136	U1	B2H	3607010000400	Logic IC
66	D14	B4B	3310990000090	ESD protection diode	137	U2	B3H	3805010860000	EMI filter
67	D17	B5A	3310990000090	ESD protection diode	138	U3	B3F	3805010860000	EMI filter
68	D18	B5C	3310990000090	ESD protection diode	139	U4	B3F	3805010860000	EMI filter
69	D19	B4B	3310240000000	ESD protection diode	140	U5	B4H	3608015000210	Power management IC
70	D2	T1J	3307110100080	LED	141	U8	B4C	3699037000010	USB protection IC
71	D20	B5C	3310990000090	ESD protection diode	/	/	/	/	/

12.2 GPS Circuit

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	C330	T3A	3101051040010	0.1uF	13	R364	T3A	3001050000000	0Ω
2	C331	T2A	3101081060010	10uF	14	R365	T3C	3001051030000	10kΩ
3	C332	T2A	3101051040010	0.1uF	15	R366	T3C	3001051030000	10kΩ
4	C333	T3A	3101081060010	10uF	16	R368	T3C	3001051010000	100Ω
5	C369	T3C	3101054710010	470pF	17	R370	T3C	3001051010000	100Ω
6	D916	T2A	3303010500090	Switching diode	18	R373	T3C	3001053300010	33Ω
7	D919	T2A	3303010500090	Switching diode	19	R398	T3A	3001054720000	4.7kΩ
8	D921	T2A	3302030500030	Zener diode	20	R405	T2A	3001061030000	10kΩ
9	L321	T3A	3212106390000	39nH	21	R417	T2A	3001062030000	20kΩ
10	L322	T3A	3221506300000	Ferrite bead	22	U326	T3B	3625999000060	GPS module
11	R352	T2C	3001053300010	33Ω	23	W321	T3A	4411100002000	IPX RF connector
12	R363	T3A	3001050000000	0Ω	/	/	/	/	/

12.3 Main Board (25 W)

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	B	/	6203077000000	VCO shielding mask	770	L404	B7A	3221506300000	Ferrite bead
2	C	/	6202010000010	APC shielding mask	771	L405	B7A	3221506300000	Ferrite bead
3	C1	T7E	3101051020010	1000pF	772	L406	B7A	3221506300000	Ferrite bead
4	C10	B7G	3101060900010	9pF	773	L407	B7B	3221506300000	Ferrite bead
5	C100	T7G	3101052210010	220pF	774	L408	B7B	3221506300000	Ferrite bead
6	C1000	T8F	3101052210010	220pF	775	L409	B7B	3221506300000	Ferrite bead
7	C1001	B7F	3101054710010	470pF	776	L410	B7B	3221506300000	Ferrite bead
8	C1002	T8F	3101051020010	1000pF	777	L411	B7B	3221506300000	Ferrite bead
9	C1003	B7F	3101054710010	470pF	778	L412	B7B	3221506300000	Ferrite bead
10	C1004	T8F	3101063300000	33pF	779	L414	B8C	3001050000000	0Ω
11	C1005	T6F	3110071040000	0.1uF	780	L415	B8C	3001050000000	0Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
12	C1006	B8F	3101051040010	0.1uF	781	L417	T2C	3001050000000	0Ω
13	C1007	T6F	3110071040000	0.1uF	782	L418	T2C	3001050000000	0Ω
14	C101	T7E	3101051590000	1.5pF	783	L5	B7E	3217607471000	470nH
15	C1010	T7F	3101051020010	1000pF	784	L6	T8F	3221506601000	Ferrite bead
16	C1015	B7F	3101054710010	470pF	785	L6100	T6I	3211506101000	Ferrite bead
17	C1016	T7F	3101064730000	0.047uF	786	L6101	T4I	3211506101000	Ferrite bead
18	C102	T7G	3101060200010	2pF	787	L6102	T5I	3210306221000	220nH
19	C103	T4G	3110071040000	0.1uF	788	L6103	T6J	3210306150000	15nH
20	C11	T7E	3101050300000	3pF	789	L6110	T5J	3210306150000	15nH
21	C12	B7G	3101050400010	4pF	790	L6114	B4I	3211506101000	Ferrite bead
22	C121	T7F	3101051010030	100pF	791	L6115	B7H	3211506101000	Ferrite bead
23	C122	T7F	3101061040010	0.1uF	792	L6116	B8H	3210306150000	15nH
24	C123	T7F	3101061040010	0.1uF	793	L6117	B8I	3210306180000	18nH
25	C13	B7E	3101053690030	3.6pF	794	L6118	B8I	3210306150000	15nH
26	C132	T7F	3101062240000	0.22uF	795	L6119	B8I	3210306180000	18nH
27	C1320	T8F	3101051010030	100pF	796	L6120	T7I	3210306470000	47nH
28	C136	B7E	3101072250110	2.2uF	797	L6121	T7I	3211506101000	Ferrite bead
29	C14	T7E	3101051200020	12pF	798	L6122	T7I	3101061040010	0.1uF
30	C141	B7F	3101051040010	0.1uF	799	L6123	T7H	3213306821000	0.82uH
31	C142	B7F	3101054710010	470pF	800	L6125	T8I	3210406331000	330nH
32	C147	B8F	3101052210010	220pF	801	L6126	T8H	3101061040010	0.1uF
33	C148	B7H	3101054710010	470pF	802	L6216	T6J	3101052210010	220pF
34	C149	B7H	3101051040010	0.1uF	803	L6217	T6J	3101052210010	220pF
35	C15	T7E	3101051000020	10pF	804	L7	T7G	3221506601000	Ferrite bead
36	C150	B8G	3101052210010	220pF	805	L701	T6H	3221506601000	Ferrite bead
37	C151	B7F	3101061000000	10pF	806	L702	T6H	3221506601000	Ferrite bead
38	C152	B7E	3101053690030	3.6pF	807	L703	T6H	3221506601000	Ferrite bead
39	C153	B7F	3101053300000	33pF	808	L704	T5I	3213212103000	10uH
40	C154	B7G	3101053000010	30pF	809	L705	T5I	3213212103000	10uH
41	C155	B7G	3101061000000	10pF	810	L706	T4H	3221506601000	Ferrite bead
42	C156	B6E	3101052210010	220pF	811	L707	T5I	3221506601000	Ferrite bead
43	C157	B7F	3101055600000	56pF	812	L708	B6H	3217107221010	220nH
44	C158	B7F	3101052000020	20pF	813	L709	T5G	3221506601000	Ferrite bead
45	C159	B7F	3101053690030	3.6pF	814	L710	T5H	3221506601000	Ferrite bead
46	C16	T6E	3101050500010	5pF	815	L711	T5H	3221506601000	Ferrite bead
47	C160	B6G	3101052210010	220pF	816	L712	T6I	3221506601000	Ferrite bead
48	C161	B7G	3101055600000	56pF	817	L713	T5G	3213306561000	0.56uH
49	C162	B7G	3101052700000	27pF	818	L714	T5H	3221506601000	Ferrite bead
50	C163	B8F	3101051040010	0.1uF	819	L715	B5H	3213212332000	3.3uH
51	C164	B7G	3101050500010	5pF	820	L716	T6H	3210406331000	330nH
52	C165	B7G	3101050500010	5pF	821	L717	T6G	3212206682000	6.8uH
53	C166	B8F	3101050500010	5pF	822	L718	B6H	3210406471000	470nH
54	C167	B8G	3101051040010	0.1uF	823	L8	T8F	3221506601000	Ferrite bead
55	C168	B8G	3101050500010	5pF	824	L801	B2F	3221513600000	60Ω
56	C17	T7E	3101060600010	6pF	825	L802	T5E	3221513600000	60Ω
57	C177	B7F	3101060800010	8pF	826	L803	B2F	3221513600000	60Ω
58	C178	T7G	3101060200010	2pF	827	L804	T2F	3233099160000	Air-core coil 16nH
59	C179	T7G	3101062490000	2.4pF	828	L805	B5E	3210306220000	22nH
60	C18	B7G	3101050400010	4pF	829	L806	B3G	3001060000000	0Ω
61	C181	B7E	3101050590010	0.5pF	830	L807	T1H	3210306101000	100nH
62	C184	B6E	3101052210010	220pF	831	L808	T1G	3001080000000	0Ω
63	C185	B7E	3101054700010	47pF	832	L809	T2H	3233099160000	Air-core coil 16nH
64	C186	B7F	3101052210010	220pF	833	L810	T3H	3233099160000	Air-core coil 16nH
65	C189	T7G	3101061200000	12pF	834	L811	B6E	3217106829010	8.2nH
66	C190	T7G	3101060700020	7pF	835	L813	T3H	3233099160000	Air-core coil 16nH
67	C191	B7E	3101051500020	15pF	836	L814	T5E	3212106569000	5.6nH
68	C192	T7F	3101060400010	4pF	837	L815	B2I	3221506601000	Ferrite bead
69	C193	B7E	3101052400010	24pF	838	L816	B2H	3233099111000	Air-core coil 111nH
70	C194	B7E	3101052210010	220pF	839	L817	T2I	3233099160000	Air-core coil 16nH
71	C195	B7E	3101051040010	0.1uF	840	L819	T5F	3233099470000	Air-core coil 47nH
72	C196	B7E	3101060700020	7pF	841	L820	T5E	3217112102020	1uH
73	C197	B6G	3101052210010	220pF	842	L821	B4H	3221506601000	Ferrite bead

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
74	C198	B7E	3101053690000	3.6pF	843	L822	B5E	3221506601000	Ferrite bead
75	C199	T7E	3101051030020	0.01uF	844	L823	T6F	3001060000000	0Ω
76	C2	T6E	3101060200010	2pF	845	L824	T6F	3221506601000	Ferrite bead
77	C20	T8G	3101060800010	8pF	846	L825	T6E	3221506601000	Ferrite bead
78	C200	B5D	3101061050020	1uF	847	L826	T5E	3101061600000	16pF
79	C21	T7E	3101054710010	470pF	848	L827	T6E	3212106390000	39nH
80	C22	T7H	3101050800000	8pF	849	L828	T1J	3217112102020	1uH
81	C23	B8E	3101052210010	220pF	850	L829	T5F	3001070000000	0Ω
82	C232	B4C	3101051040010	0.1uF	851	L830	T5F	3001070000000	0Ω
83	C233	B4C	3101051040010	0.1uF	852	L832	T3I	3212106689000	6.8nH
84	C234	B4C	3101081060010	10uF	853	L833	T2J	3101064700000	47pF
85	C235	B4C	3101051030020	0.01uF	854	L9	T7G	3221506601000	Ferrite bead
86	C236	B6C	3101051040010	0.1uF	855	L900	T4B	3221513600000	60Ω
87	C237	B5B	3101054740020	0.47uF	856	L901	T5B	3221506300000	Ferrite bead
88	C238	B5D	3101061050020	1uF	857	L902	T4C	3217699153000	15uH
89	C239	B6C	3101051040010	0.1uF	858	L903	T5C	3213099472000	4.7uH
90	C24	B8E	3101051040010	0.1uF	859	L904	B4D	3221506181000	180Ω
91	C240	B6D	3101051040010	0.1uF	860	L906	B2B	3221513600000	60Ω
92	C241	B5B	3001060000000	0Ω	861	L908	B5D	3221506181000	180Ω
93	C242	B6B	3101062210000	220pF	862	L909	T7A	3221506181000	180Ω
94	C243	B6B	3101051040010	0.1uF	863	L912	T5C	3221506300000	Ferrite bead
95	C245	B6A	3101062210000	220pF	864	L913	T6C	3221506300000	Ferrite bead
96	C246	B6B	3101052230000	0.022uF	865	L916	T3D	3221513600000	60Ω
97	C247	B5C	3101052210010	220pF	866	L930	T4D	3241799103000	10uH
98	C248	B6C	3101051040010	0.1uF	867	L931	T5D	3213099472000	4.7uH
99	C249	B5C	3101061050020	1uF	868	L940	T2D	3221513600000	60Ω
100	C25	B8E	3101050500010	5pF	869	Q100	B7E	3408002000080	NPN transistor
101	C250	B5B	3101052210010	220pF	870	Q101	B8E	3403999000000	Transistor
102	C251	B5D	3101061050020	1uF	871	Q102	T7E	3401002000990	NPN transistor
103	C252	B5B	3101061050020	1uF	872	Q103	B7F	3408002000080	NPN transistor
104	C253	B5B	3101061050020	1uF	873	Q104	B7F	3403003000060	NPN transistor
105	C254	B5C	3101052210010	220pF	874	Q105	B8F	3403999000000	Transistor
106	C255	B5C	3101051050000	1uF	875	Q106	B7G	3408002000080	NPN transistor
107	C256	B5D	3101051010030	100pF	876	Q107	T7E	3404006000000	NPN transistor
108	C257	B5C	3101061050020	1uF	877	Q108	B8F	3403999000000	Transistor
109	C258	B5C	3101051040010	0.1uF	878	Q109	T7G	3404006000000	NPN transistor
110	C259	B5D	3101061050020	1uF	879	Q110	B7G	3408002000080	NPN transistor
111	C26	B7E	3101060700020	7pF	880	Q111	T8G	3401002000990	NPN transistor
112	C260	B5C	3101051030020	0.01uF	881	Q112	B8H	3403999000000	Transistor
113	C261	B5C	3101051030020	0.01uF	882	Q116	T7G	3403999000000	Transistor
114	C262	B5D	3101061050020	1uF	883	Q117	T6E	3403999000000	Transistor
115	C263	B5C	3101061050020	1uF	884	Q230	B6A	3499000000150	Transistor
116	C264	B5B	3101061050020	1uF	885	Q231	B5C	3499000000150	Transistor
117	C265	B5B	3101052210010	220pF	886	Q232	B5D	3499000000150	Transistor
118	C266	B5C	3101061050020	1uF	887	Q233	B4B	3499000000150	Transistor
119	C267	B5D	3101051040010	0.1uF	888	Q234	B4C	3499000000150	Transistor
120	C268	B6A	3101064740010	0.47uF	889	Q235	B4C	3499000000150	Transistor
121	C269	B5C	3101052210010	220pF	890	Q323	T7C	3403008000010	Transistor
122	C27	B7E	3101050590010	0.5pF	891	Q400	B2A	3403002000000	PNP transistor
123	C270	B5D	3101052210010	220pF	892	Q401	B2A	3403008000010	Transistor
124	C271	B5D	3101052210010	220pF	893	Q402	T2B	3403008000010	Transistor
125	C272	B5D	3101052210010	220pF	894	Q403	B2A	3403008000010	Transistor
126	C273	B5D	3101052210010	220pF	895	Q404	B2B	3403008000010	Transistor
127	C274	B5D	3101051040010	0.1uF	896	Q405	T2A	3403008000010	Transistor
128	C275	B4B	3101071060010	10uF	897	Q406	B2C	3414999000000	Transistor
129	C276	B4B	3101051050000	1uF	898	Q407	B2B	3414999000000	Transistor
130	C277	B4B	3101061050020	1uF	899	Q408	B2B	3414999000000	Transistor
131	C278	B4C	3101061050020	1uF	900	Q409	B2C	3414999000000	Transistor
132	C279	B4C	3101061050020	1uF	901	Q410	B2C	3414999000000	Transistor
133	C28	B7E	3101052210010	220pF	902	Q411	T2B	3414999000000	Transistor
134	C280	B4C	3101052210010	220pF	903	Q412	T2C	3414999000000	Transistor
135	C281	B4C	3101061050020	1uF	904	Q413	T6C	3403008000010	Transistor
136	C282	B4C	3101061050020	1uF	905	Q414	T2C	3414999000000	Transistor

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
137	C283	B6A	3101061040010	0.1uF	906	Q415	T2C	3599990000710	P-MOSFET
138	C284	B5B	3101092260010	22uF	907	Q416	T2C	3414001000020	PNP transistor
139	C285	B5A	3101051040010	0.1uF	908	Q6100	T4J	3499000000150	Transistor
140	C286	B5D	3101081060010	10uF	909	Q6101	T5I	3403014000020	Transistor
141	C287	B5A	3101064740000	0.47uF	910	Q6102	T5J	3404999000000	NPN transistor
142	C288	B5B	3101051010030	100pF	911	Q6103	B8I	3404999000000	NPN transistor
143	C289	B6A	3101061040010	0.1uF	912	Q6104	T7I	3404006000000	NPN transistor
144	C29	B8F	3101052210010	220pF	913	Q6105	T7H	3404006000000	NPN transistor
145	C290	B6B	3101061050020	1uF	914	Q701	B6H	3408002000000	NPN transistor
146	C291	B6B	3101061050020	1uF	915	Q702	B6H	3403003000060	NPN transistor
147	C292	B5C	3101064750030	4.7uF	916	Q801	B6E	3404999000000	NPN transistor
148	C293	B6B	3101071060010	10uF	917	Q803	T4F	3601017000000	RF PA module
149	C294	B5A	3101063340010	0.33uF	918	Q804	T5F	3504990000070	N-MOSFET
150	C295	B5C	3101051010030	100pF	919	Q805	T5E	3504990000010	PA MOSFET
151	C296	B5A	3101051010030	100pF	920	Q810	B5E	3403002000000	PNP transistor
152	C297	B4C	3101064710000	470pF	921	Q811	B5E	3403008000010	Transistor
153	C298	B5D	3101061050020	1uF	922	Q812	B4G	3403008000010	Transistor
154	C299	B5D	3101061050020	1uF	923	Q813	B4G	3403008000010	Transistor
155	C3	B7G	3101054700010	47pF	924	Q902	T4H	3403002000000	PNP transistor
156	C30	B8F	3101051040010	0.1uF	925	Q903	T5H	3403008000010	Transistor
157	C300	B4C	3101061040010	0.1uF	926	Q905	B3A	3499000000150	Transistor
158	C301	B5A	3101092260010	22uF	927	Q906	B3B	3414001000020	PNP transistor
159	C302	B5D	3101054710010	470pF	928	Q908	B3B	3403008000010	Transistor
160	C303	B5B	3101051040010	0.1uF	929	Q909	B3B	3403002000010	PNP transistor
161	C305	B5B	3101051050000	1uF	930	Q910	B3B	3414001000020	PNP transistor
162	C306	B5B	3101051030020	0.01uF	931	Q912	B3A	3403008000010	Transistor
163	C307	B5B	3101051010030	100pF	932	Q913	B2A	3403008000010	Transistor
164	C308	B7A	3101051040010	0.1uF	933	Q914	B3B	3403008000010	Transistor
165	C309	B7A	3101051010030	100pF	934	Q916	B2A	3599990000610	N-MOSFET
166	C31	B7F	3101060500010	5pF	935	Q921	B2E	3404999000020	NPN transistor
167	C310	T6A	3101051050000	1uF	936	Q922	T2C	3403008000010	Transistor
168	C311	B5B	3101051040010	0.1uF	937	Q923	T2C	3403008000010	Transistor
169	C32	B8G	3101050500010	5pF	938	R1	T8G	3101053300000	33pF
170	C325	T8B	3101051040010	0.1uF	939	R109	T8F	3001051000000	10Ω
171	C326	T6C	3101051010030	100pF	940	R111	T7F	3001061210000	120Ω
172	C329	T6D	3101051040010	0.1uF	941	R1110	T8G	3001053300010	33Ω
173	C33	B8G	3101051010030	100pF	942	R114	T7F	3001065600000	56Ω
174	C330	T3A	3101051040010	0.1uF	943	R117	B7E	3001051040010	100kΩ
175	C331	T2A	3101071060010	10uF	944	R120	B7E	3001054730000	47kΩ
176	C332	T2A	3101051040010	0.1uF	945	R122	B8E	3001056800010	68Ω
177	C333	T3A	3101071060010	10uF	946	R123	B8G	3001052700010	27Ω
178	C334	T8D	3101051040010	0.1uF	947	R128	B7E	3001051830000	18kΩ
179	C335	B6B	3101051010030	100pF	948	R129	B8E	3001051010000	100Ω
180	C336	T7A	3101051040010	0.1uF	949	R130	B8G	3001052210000	220Ω
181	C337	T7B	3101051020010	1000pF	950	R131	B8F	3001053320000	3.3kΩ
182	C338	T7B	3101051020010	1000pF	951	R132	B8G	3001056820000	6.8kΩ
183	C339	B7B	3101051010030	100pF	952	R135	B8E	3001051010000	100Ω
184	C34	B8E	3101051010030	100pF	953	R136	B8G	3001052210000	220Ω
185	C340	T7A	3101051040010	0.1uF	954	R137	B7E	3001051010040	100Ω
186	C341	B6B	3101051010030	100pF	955	R138	B7F	3001058220000	8.2kΩ
187	C342	B6C	3101051010030	100pF	956	R139	B7E	3001051010040	100Ω
188	C343	T7C	3101051010030	100pF	957	R140	B7E	3001051010040	100Ω
189	C344	T7D	3101051010030	100pF	958	R141	T7E	3001054700000	47Ω
190	C345	T7C	3101051010030	100pF	959	R142	B8E	3001053320000	3.3kΩ
191	C346	T7C	3101051010030	100pF	960	R143	B8E	3001057520000	7.5kΩ
192	C347	T6D	3101051010030	100pF	961	R144	B7G	3001051010040	100Ω
193	C348	T6C	3101051010030	100pF	962	R145	B7E	3001051010040	100Ω
194	C349	T6C	3101051010030	100pF	963	R146	T7E	3001051010040	100Ω
195	C350	T6C	3101051010030	100pF	964	R147	T7E	3001051010040	100Ω
196	C351	T6C	3101051010030	100pF	965	R148	T8G	3001051010040	100Ω
197	C352	T6C	3101051010030	100pF	966	R151	T7E	3001051530010	15kΩ
198	C353	T6C	3101051010030	100pF	967	R152	T7E	3001053630000	36kΩ
199	C354	T6C	3101051010030	100pF	968	R153	B8E	3221506601000	Ferrite bead

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
200	C355	B6C	3101051010030	100pF	969	R155	T7E	3001051530010	15kΩ
201	C356	T7C	3101051040010	0.1uF	970	R156	T7E	3001053300000	33Ω
202	C357	T6C	3101051010030	100pF	971	R157	B8F	3221506601000	Ferrite bead
203	C358	T7D	3101051010030	100pF	972	R158	B8F	3001056820000	6.8kΩ
204	C359	B7D	3101051010030	100pF	973	R159	B7F	3001057520000	7.5kΩ
205	C360	B7D	3101051010030	100pF	974	R160	B7G	3001051010040	100Ω
206	C361	B7D	3101051010030	100pF	975	R161	T7E	3001051830000	18kΩ
207	C362	T7B	3101058200000	82pF	976	R167	T8G	3001053300010	33Ω
208	C363	T7B	3101058200000	82pF	977	R171	T7F	3001060000000	0Ω
209	C364	T7B	3101053900000	39pF	978	R174	T8E	3001050000000	0Ω
210	C365	T7B	3101058200000	82pF	979	R175	T7F	3001051000000	10Ω
211	C366	T6D	3101051040010	0.1uF	980	R176	B7F	3001054720000	4.7kΩ
212	C367	T7A	3101071060010	10uF	981	R177	T7F	3001051030000	10kΩ
213	C368	T7A	3101054710010	470pF	982	R178	T8G	3001053300010	33Ω
214	C369	T3C	3101054710010	470pF	983	R179	B8F	3221506601000	Ferrite bead
215	C375	T7B	3101052000020	20pF	984	R180	T6F	3001051030000	10kΩ
216	C376	T7C	3101052000020	20pF	985	R181	T7F	3001051020000	1kΩ
217	C378	B7B	3101051010030	100pF	986	R183	T7F	3001051020000	1kΩ
218	C379	B6B	3101051040010	0.1uF	987	R186	B8G	3221506601000	Ferrite bead
219	C380	B7B	3101051040010	0.1uF	988	R187	T7F	3001061000000	10Ω
220	C381	B6C	3101051030020	0.01uF	989	R188	T8F	3001050000000	0Ω
221	C382	B6C	3101051040010	0.1uF	990	R189	T8G	3001054720000	4.7kΩ
222	C383	B6C	3101051040010	0.1uF	991	R190	T7G	3001053300000	33Ω
223	C384	B6B	3101051030020	0.01uF	992	R192	B7G	3001061010000	100Ω
224	C385	B6B	3101051010030	100pF	993	R194	B8H	3001057520000	7.5kΩ
225	C386	B6B	3101051040010	0.1uF	994	R195	T7G	3001052030000	20kΩ
226	C387	B7B	3101051040010	0.1uF	995	R196	B7G	3001051010040	100Ω
227	C388	B7C	3101051040010	0.1uF	996	R197	T7H	3001062200000	22Ω
228	C389	B7B	3101051040010	0.1uF	997	R198	T7G	3001051530010	15kΩ
229	C390	B6C	3101051010030	100pF	998	R199	T8G	3001051030000	10kΩ
230	C391	T7C	3101051040010	0.1uF	999	R2	T8E	3001060000000	0Ω
231	C392	B6C	3101051040010	0.1uF	1000	R202	B5D	3001051030000	10kΩ
232	C393	B6C	3101051040010	0.1uF	1001	R231	B6C	3001053300010	33Ω
233	C394	B7B	3101051040010	0.1uF	1002	R232	B6D	3001053300010	33Ω
234	C396	T6B	3101061050020	1uF	1003	R234	B6C	3001051030000	10kΩ
235	C398	B6B	3101051040010	0.1uF	1004	R235	B6C	3001051030000	10kΩ
236	C399	B6B	3101051030020	0.01uF	1005	R236	B5D	3001051030000	10kΩ
237	C4	B7G	3101051800010	18pF	1006	R237	B5A	3001055630000	56kΩ
238	C400	B7B	3101051040010	0.1uF	1007	R238	B5B	3001053320000	3.3kΩ
239	C402	T6C	3101071060010	10uF	1008	R239	B6B	3001055620000	5.6kΩ
240	C407	T8C	3101051040010	0.1uF	1009	R240	T6D	3001053320000	3.3kΩ
241	C409	T7C	3101051010030	100pF	1010	R241	B5A	3001055630000	56kΩ
242	C410	T8C	3101051010030	100pF	1011	R242	B6C	3001050000000	0Ω
243	C411	T8C	3101051010030	100pF	1012	R244	B5C	3001052230010	22kΩ
244	C412	T8C	3101051010030	100pF	1013	R246	B5C	3001052230010	22kΩ
245	C413	T7C	3101051010030	100pF	1014	R247	B5B	3001051040010	100kΩ
246	C414	T7C	3101051010030	100pF	1015	R248	B5B	3001051040010	100kΩ
247	C415	T7C	3101051010030	100pF	1016	R250	B5B	3001051530000	15kΩ
248	C416	T7C	3101051010030	100pF	1017	R251	B5B	3001051010000	100Ω
249	C417	T8C	3101051010030	100pF	1018	R252	B5C	3001051040010	100kΩ
250	C418	T8C	3101051010030	100pF	1019	R255	B5D	3001064710000	470Ω
251	C419	B8D	3101051010030	100pF	1020	R257	B5C	3001053030010	30kΩ
252	C42	B8E	3101050100030	1pF	1021	R258	B5C	3001051030000	10kΩ
253	C420	B8D	3101051010030	100pF	1022	R259	B5C	3001051030000	10kΩ
254	C421	T2C	3101052210010	220pF	1023	R260	B5C	3001051010000	100Ω
255	C422	T2B	3101051040010	0.1uF	1024	R261	B5C	3001051030000	10kΩ
256	C423	T2C	3101052210010	220pF	1025	R262	B5B	3001051040010	100kΩ
257	C424	T2A	3101052210010	220pF	1026	R263	B5B	3001053030010	30kΩ
258	C425	T2A	3101052210010	220pF	1027	R264	B5D	3001051020010	1kΩ
259	C426	T2B	3101051010030	100pF	1028	R265	B4B	3001051820000	1.8kΩ
260	C427	T2C	3101051010030	100pF	1029	R266	B4B	3001054730000	47kΩ
261	C428	T2C	3101051010030	100pF	1030	R267	B5D	3001051020010	1kΩ
262	C429	T2C	3101051010030	100pF	1031	R268	B5B	3001051040010	100kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
263	C430	T2A	3101051010030	100pF	1032	R269	B4B	3001051040010	100kΩ
264	C431	T2A	3101051010030	100pF	1033	R270	B4B	3001054730000	47kΩ
265	C432	T2B	3101052210010	220pF	1034	R271	B4B	3001051010000	100Ω
266	C433	T2B	3101052210010	220pF	1035	R272	B5B	3001054730000	47kΩ
267	C434	T2B	3101052210010	220pF	1036	R273	B4C	3001052430010	24kΩ
268	C435	B8D	3101051010030	100pF	1037	R274	B4C	3001051040010	100kΩ
269	C436	T2C	3101052210010	220pF	1038	R275	B4C	3001051040010	100kΩ
270	C437	T2B	3101052210010	220pF	1039	R276	B4C	3001051040010	100kΩ
271	C438	B7C	3101054740020	0.47uF	1040	R277	B4C	3001054730000	47kΩ
272	C439	B7C	3101054740020	0.47uF	1041	R278	B4C	3001051010000	100Ω
273	C440	B8D	3101051010030	100pF	1042	R279	B5D	3001053030010	30kΩ
274	C441	T8C	3101051010030	100pF	1043	R282	T6A	3001060000000	0Ω
275	C442	B8B	3101051010030	100pF	1044	R283	B5D	3001053030010	30kΩ
276	C443	B8B	3101051010030	100pF	1045	R284	B5D	3001051530000	15kΩ
277	C444	B8A	3101051010030	100pF	1046	R285	B5D	3001051530000	15kΩ
278	C445	B8B	3101051010030	100pF	1047	R286	B6B	3001054730000	47kΩ
279	C446	B8A	3101051010030	100pF	1048	R287	B6B	3001055620000	5.6kΩ
280	C447	B8B	3101051010030	100pF	1049	R288	B6A	3001054730000	47kΩ
281	C448	B8A	3101051010030	100pF	1050	R289	B6A	3001050000000	0Ω
282	C449	B8A	3101051010030	100pF	1051	R290	B5C	3001051020000	1kΩ
283	C450	B8A	3101051010030	100pF	1052	R291	B6B	3001051220000	1.2kΩ
284	C451	B8A	3101051010030	100pF	1053	R292	B6B	3001053300010	33Ω
285	C452	B8B	3101051010030	100pF	1054	R295	B5A	3001051020000	1kΩ
286	C453	B8B	3101051010030	100pF	1055	R296	B6B	3001051040000	100kΩ
287	C454	B8B	3101051010030	100pF	1056	R3	T7F	3001050000000	0Ω
288	C455	B8B	3101051010030	100pF	1057	R316	T5B	3001051030000	10kΩ
289	C456	B8B	3101051010030	100pF	1058	R319	T6B	3001053300010	33Ω
290	C46	B7G	3101052210010	220pF	1059	R320	B6B	3001053300010	33Ω
291	C463	B7C	3101051010030	100pF	1060	R322	T5B	3001051030000	10kΩ
292	C465	B8C	3101051010030	100pF	1061	R324	T7C	3001053300010	33Ω
293	C466	B8C	3101051010030	100pF	1062	R326	T6B	3001051030000	10kΩ
294	C467	B8C	3101051010030	100pF	1063	R327	B6C	3001053300010	33Ω
295	C468	B8C	3101051010030	100pF	1064	R337	T7C	3001051010000	100Ω
296	C469	B8A	3101051010030	100pF	1065	R338	T7B	3001051010000	100Ω
297	C473	T8D	3101051040010	0.1uF	1066	R339	T7C	3001051010000	100Ω
298	C474	T2C	3101054710010	470pF	1067	R346	B6C	3001051010000	100Ω
299	C476	T2C	3101054710010	470pF	1068	R347	T7D	3001053300010	33Ω
300	C477	T7C	3101051010030	100pF	1069	R348	T8B	3001050000000	0Ω
301	C478	T7C	3101051010030	100pF	1070	R349	T8B	3001053300010	33Ω
302	C479	T8C	3101051010030	100pF	1071	R350	T8B	3001053300010	33Ω
303	C480	T8C	3101051010030	100pF	1072	R351	T6B	3001051030000	10kΩ
304	C483	B2B	3101051040010	0.1uF	1073	R352	T2C	3001053300010	33Ω
305	C484	T2C	3101062250000	2.2uF	1074	R353	T6A	3001051030000	10kΩ
306	C485	B2C	3101051040010	0.1uF	1075	R354	T6C	3001053300010	33Ω
307	C49	B7G	3101060700020	7pF	1076	R355	B6C	3001053300010	33Ω
308	C5	B7G	3101052000020	20pF	1077	R356	B6A	3001050000000	0Ω
309	C50	T8G	3101054710010	470pF	1078	R357	T6C	3001053300010	33Ω
310	C500	B7C	3101053300000	33pF	1079	R358	B7B	3001051000000	10Ω
311	C501	B7C	3101053310020	330pF	1080	R360	B7B	3001051000000	10Ω
312	C502	B7C	3101052720000	2700pF	1081	R361	B7B	3001051530000	15kΩ
313	C503	B7C	3101051520000	1500pF	1082	R362	B7B	3001051530000	15kΩ
314	C506	B7C	3101051030020	0.01uF	1083	R363	T3A	3001050000000	0Ω
315	C507	B7C	3101051030020	0.01uF	1084	R364	T3A	3001050000000	0Ω
316	c508	B7C	3101071060010	10uF	1085	R365	T3C	3001051030000	10kΩ
317	C509	B7C	3101051040010	0.1uF	1086	R366	T3C	3001051030000	10kΩ
318	C510	B7C	3101051010030	100pF	1087	R367	T6D	3001053300010	33Ω
319	C511	B7B	3101071060010	10uF	1088	R368	T3C	3001051010000	100Ω
320	C512	B7B	3101051040010	0.1uF	1089	R369	T6D	3001053300010	33Ω
321	C513	B7C	3101051020010	1000pF	1090	R370	T3C	3001051010000	100Ω
322	C514	B7C	3101051040010	0.1uF	1091	R371	T6D	3001053300010	33Ω
323	C515	B7C	3101051040010	0.1uF	1092	R372	T6D	3001051030000	10kΩ
324	C516	B7B	3101051010030	100pF	1093	R373	T3C	3001053300010	33Ω
325	C517	B7B	3101051010030	100pF	1094	R374	T7B	3001050000000	0Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
326	C518	B7B	3101051010030	100pF	1095	R375	T6C	3001050000000	0Ω
327	C519	B5C	3101071060010	10uF	1096	R376	T6C	3001053300010	33Ω
328	C52	B7G	3101052210010	220pF	1097	R377	T6C	3001051030000	10kΩ
329	C520	B6D	3101071060010	10uF	1098	R378	T6C	3001051020000	1kΩ
330	C53	T8G	3101052290020	2.2pF	1099	R379	T7C	3001051030000	10kΩ
331	C55	T7G	3101063690000	3.6pF	1100	R380	T6C	3001053300010	33Ω
332	C56	T7G	3101050400010	4pF	1101	R381	T6C	3001053300010	33Ω
333	C58	T7G	3101051030020	0.01uF	1102	R382	T6C	3001051020000	1kΩ
334	C59	T7G	3101052200010	22pF	1103	R383	B7C	3001051020010	1kΩ
335	C6	B7F	3101052210010	220pF	1104	R385	B7B	3001051030000	10kΩ
336	C60	T7G	3101051020010	1000pF	1105	R386	B6B	3001051000000	10Ω
337	C61	T7H	3101051000020	10pF	1106	R387	T7B	3001053300010	33Ω
338	C6100	T4I	3101061050020	1uF	1107	R388	T7C	3001051000000	10Ω
339	C6102	T6J	3101054710010	470pF	1108	R390	T7B	3001051030000	10kΩ
340	C6103	T4I	3101052210010	220pF	1109	R391	T8D	3001051030000	10kΩ
341	C6104	T5I	3101051040010	0.1uF	1110	R392	T7D	3001051030000	10kΩ
342	C6105	T5J	3101052210010	220pF	1111	R393	T7D	3001051030000	10kΩ
343	C6106	T4J	3101052210010	220pF	1112	R394	T7D	3001051030000	10kΩ
344	C6107	T5J	3101052210010	220pF	1113	R395	T7D	3001054720000	4.7kΩ
345	C6109	T4J	3101050300000	3pF	1114	R396	T7D	3001054720000	4.7kΩ
346	C6110	T4J	3101051290040	1.2pF	1115	R398	T3A	3001054720000	4.7kΩ
347	C6111	T5J	3101050500000	5pF	1116	R399	T6A	3001050000000	0Ω
348	C6112	T5J	3101050500000	5pF	1117	R4	T8E	3001061010000	100Ω
349	C6113	T5J	3101051040010	0.1uF	1118	R400	T7D	3001051030000	10kΩ
350	C6114	T5J	3101050600010	6pF	1119	R401	B7B	3001051520000	1.5kΩ
351	C6115	T6J	3001050000000	0Ω	1120	R402	T6D	3001053300010	33Ω
352	C6116	T6J	3199050758000	0.75pF	1121	R403	T6C	3001051010000	100Ω
353	C6117	T6J	3101051000020	10pF	1122	R404	T6C	3001051010000	100Ω
354	C6118	T4J	3101051510000	150pF	1123	R405	T2A	3001061030000	10kΩ
355	C6119	T4J	3101050590020	0.5pF	1124	R406	T6C	3001051010000	100Ω
356	C6120	T4J	3101051890050	1.8pF	1125	R407	T8C	3001060000000	0Ω
357	C6121	T4J	3101051890050	1.8pF	1126	R408	T7C	3001053300010	33Ω
358	C6122	T5J	3101050590020	0.5pF	1127	R409	T8C	3001051010000	100Ω
359	C6123	T5J	3001050000000	0Ω	1128	R410	T6C	3001051010000	100Ω
360	C6124	T6J	3101050100030	1pF	1129	R411	T6C	3001051010000	100Ω
361	C6126	T6J	3101051890050	1.8pF	1130	R412	T8C	3001053300010	33Ω
362	C6127	T6J	3101051890050	1.8pF	1131	R413	T6C	3001053300010	33Ω
363	C6128	T6J	3101052210010	220pF	1132	R414	T7A	3001051000000	10Ω
364	C6129	T5J	3101051500020	15pF	1133	R415	T7C	3001053300010	33Ω
365	C6130	T5J	3101051500020	15pF	1134	R416	T8C	3001051010000	100Ω
366	C6133	T5J	3101050300000	3pF	1135	R417	T2A	3001062030000	20kΩ
367	C6134	T4I	3101053300000	33pF	1136	R420	T8C	3001053300010	33Ω
368	C6135	T4I	3101053300000	33pF	1137	R421	T6C	3001051010000	100Ω
369	C6136	T4I	3101053300000	33pF	1138	R422	T7B	3001051030000	10kΩ
370	C6137	T4I	3101053300000	33pF	1139	R423	T7C	3001053300010	33Ω
371	c6138	T4I	3101055600000	56pF	1140	R424	T7C	3001053300010	33Ω
372	C6139	T6I	3101053300000	33pF	1141	R425	T7C	3001053300010	33Ω
373	C6140	T6I	3101053300000	33pF	1142	R426	T7A	3001050000000	0Ω
374	C6141	T6I	3101053300000	33pF	1143	R427	T2B	3001051030000	10kΩ
375	C6142	T6I	3101053300000	33pF	1144	R428	T2B	3001054720000	4.7kΩ
376	c6143	T6I	3101055600000	56pF	1145	R429	T6C	3001051030000	10kΩ
377	C6144	B4H	3101052210010	220pF	1146	R430	T8C	3001053300010	33Ω
378	C6145	B4I	3101061050020	1uF	1147	R431	T7C	3001053300010	33Ω
379	C6146	T4I	3101054710010	470pF	1148	R432	T7C	3001053300010	33Ω
380	C6147	T6I	3101051030020	0.01uF	1149	R433	T7C	3001053300010	33Ω
381	C6148	B7H	3101054710010	470pF	1150	R434	T8D	3001051010000	100Ω
382	C6149	B7H	3101061050020	1uF	1151	R435	T2C	3001054720000	4.7kΩ
383	C6151	B7H	3101054710010	470pF	1152	R436	T2B	3001054720000	4.7kΩ
384	C6152	B8I	3101050100030	1pF	1153	R437	T2A	3001054720000	4.7kΩ
385	C6153	B8I	3101050200010	2pF	1154	R438	B2A	3001051030000	10kΩ
386	C6154	B8I	3101050100030	1pF	1155	R439	B2A	3001051010000	100Ω
387	C6157	B8I	3101061010010	100pF	1156	R440	T6B	3001050000000	0Ω
388	C6158	B7H	3001060000000	0Ω	1157	R441	B6A	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
389	C6159	B8H	3101052210010	220pF	1158	R442	T6A	3001051030000	10kΩ
390	C6160	B8H	3101052200010	22pF	1159	R443	T2A	3001051030000	10kΩ
391	C6161	B8H	3101051200020	12pF	1160	R445	T2A	3001051010000	100Ω
392	C6162	B8I	3101051200020	12pF	1161	R447	T2A	3001051030000	10kΩ
393	C6163	B8I	3101053390010	3.3pF	1162	R448	T2B	3001054720000	4.7kΩ
394	C6164	B8I	3101051200020	12pF	1163	R449	B2A	3001064730000	47kΩ
395	C6166	T7I	3101051010030	100pF	1164	R450	B2A	3001071020000	1kΩ
396	C6168	T7I	3101051040010	0.1uF	1165	R451	B2B	3001051030000	10kΩ
397	C6169	T7I	3101051040010	0.1uF	1166	R452	B2B	3001051030000	10kΩ
398	C6170	T7I	3101050900000	9pF	1167	R453	T5B	3001051030000	10kΩ
399	C6171	T7I	3101051040010	0.1uF	1168	R454	B2A	3001050000000	0Ω
400	C6172	B7I	3001050000000	0Ω	1169	R455	T2A	3001058230000	82kΩ
401	C6173	T7H	3101051040010	0.1uF	1170	R456	T8C	3001050000000	0Ω
402	C6175	T8H	3101051040010	0.1uF	1171	R457	T8C	3001050000000	0Ω
403	C6176	T8I	3001060000000	0Ω	1172	R458	T8C	3001051010000	100Ω
404	C6177	T8I	3101051500020	15pF	1173	R459	T8C	3001051010000	100Ω
405	C6178	T7I	3101051030020	0.01uF	1174	R460	T7D	3001051020010	1kΩ
406	C6179	T7H	3101051040010	0.1uF	1175	R461	B2C	3001051030000	10kΩ
407	C6180	T7H	3101051040010	0.1uF	1176	R462	B2B	3001051030000	10kΩ
408	C6185	T6J	3101061050020	1uF	1177	R463	B2B	3001051030000	10kΩ
409	C6190	T7I	3101061050020	1uF	1178	R464	B2B	3001051030000	10kΩ
410	C6193	B7H	3101061040010	0.1uF	1179	R465	B2C	3001051030000	10kΩ
411	C6194	T4J	3212106689000	6.8nH	1180	R466	B2C	3001051030000	10kΩ
412	C62	B8G	3001050000000	0Ω	1181	R467	B2C	3001053300010	33Ω
413	C64	T7F	3110071040000	0.1uF	1182	R468	T2B	3001054720000	4.7kΩ
414	C66	T6F	3110071040000	0.1uF	1183	R469	T2C	3001054720000	4.7kΩ
415	C67	T7F	3110071040000	0.1uF	1184	R470	T2B	3001054720000	4.7kΩ
416	C68	T6F	3110071040000	0.1uF	1185	R471	T2B	3001054720000	4.7kΩ
417	C69	T7F	3110071040000	0.1uF	1186	R472	T2B	3001054720000	4.7kΩ
418	C7	B7F	3101051040010	0.1uF	1187	R473	B2C	3001053300010	33Ω
419	C70	T6F	3110071040000	0.1uF	1188	R474	B2C	3001053300010	33Ω
420	C702	T6H	3101051030020	0.01uF	1189	R475	T2A	3001051030000	10kΩ
421	C703	T6H	3101060300010	3pF	1190	R476	T8C	3001054720000	4.7kΩ
422	C704	T6H	3101052210010	220pF	1191	R479	T6C	3001053300010	33Ω
423	C705	T6H	3101051040010	0.1uF	1192	R481	B5B	3001051030000	10kΩ
424	C706	T6H	3101054710010	470pF	1193	R482	B6B	3001051030000	10kΩ
425	C707	T6H	3101051040010	0.1uF	1194	R483	B6B	3001051030000	10kΩ
426	C708	T6H	3101051040010	0.1uF	1195	R484	T8C	3001054720000	4.7kΩ
427	C709	T5I	3101051040010	0.1uF	1196	R485	B7C	3001053300010	33Ω
428	C71	B7F	3101071050240	1uF	1197	R486	B7C	3001053300010	33Ω
429	C710	T6H	3101051020010	1000pF	1198	R487	T7A	3001053300010	33Ω
430	C712	T6H	3101051040010	0.1uF	1199	R488	T7B	3001054720000	4.7kΩ
431	C713	T6H	3101053920000	3900pF	1200	R489	T7A	3001053300010	33Ω
432	C714	T6G	3101051000020	10pF	1201	R490	T7A	3001053300010	33Ω
433	C715	T6H	3101064740000	0.47uF	1202	R491	B7C	3001053300010	33Ω
434	C716	T6I	3101061810060	180pF	1203	R492	T7A	3001053300010	33Ω
435	C717	B6H	3101054710010	470pF	1204	R493	T2A	3001061040010	100kΩ
436	C718	B6H	3101051050160	1uF	1205	R495	B7C	3001053300010	33Ω
437	C719	T5G	3101051050000	1uF	1206	R496	B2C	3001054720000	4.7kΩ
438	C72	T7F	3110071040000	0.1uF	1207	R497	B2B	3001051020000	1kΩ
439	C720	T6H	3101051040010	0.1uF	1208	R498	B7C	3001053300010	33Ω
440	C721	T6H	3101051010030	100pF	1209	R499	B7B	3001054720000	4.7kΩ
441	C722	T6H	3101051010030	100pF	1210	R5	T7E	3001050000000	0Ω
442	C723	B6H	3101051500020	15pF	1211	R500	B7C	3001051040000	100kΩ
443	C724	B6H	3101051800010	18pF	1212	R501	B7C	3001051030000	10kΩ
444	C725	B6H	3101051030020	0.01uF	1213	R502	B7C	3001051020000	1kΩ
445	C726	B6H	3101074750000	4.7uF	1214	R503	B7C	3001051020000	1kΩ
446	C727	B6H	3101054710010	470pF	1215	R504	B7C	3001051020000	1kΩ
447	C728	T5H	3101051020010	1000pF	1216	R505	B7C	3001050000000	0Ω
448	C729	T5H	3101051040010	0.1uF	1217	R506	B7C	3001051030000	10kΩ
449	C730	B6H	3101052200010	22pF	1218	R507	B7C	3001050000000	0Ω
450	C731	B6H	3101050600010	6pF	1219	R508	T2C	3001051030000	10kΩ
451	C732	B6H	3101052200010	22pF	1220	R509	B7B	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
452	C733	T5H	3101051040010	0.1uF	1221	R510	B7B	3001051030000	10kΩ
453	C734	B6H	3101053000010	30pF	1222	R511	B7B	3001054720000	4.7kΩ
454	C735	T5H	3101051040010	0.1uF	1223	R512	B7C	3001051030000	10kΩ
455	C736	T5H	3101051030020	0.01uF	1224	R513	B7C	3001051040000	100kΩ
456	C737	T5H	3101051040010	0.1uF	1225	R514	B7C	3001051040000	100kΩ
457	C738	T5H	3101051010030	100pF	1226	R515	T7A	3001053300010	33Ω
458	C739	T5H	3101051010030	100pF	1227	R516	T7A	3001053300010	33Ω
459	C74	T7F	3110071040000	0.1uF	1228	R517	T7A	3001053300010	33Ω
460	C740	T5H	3101051040010	0.1uF	1229	R518	T7A	3001053300010	33Ω
461	C741	T5H	3101051040010	0.1uF	1230	R519	T7B	3001053300010	33Ω
462	C742	T6H	3101061050020	1uF	1231	R520	T7B	3001053300010	33Ω
463	C743	T6H	3101064700000	47pF	1232	R521	T7B	3001053300010	33Ω
464	C744	B5H	3101051040010	0.1uF	1233	R522	T7A	3001053300010	33Ω
465	C745	B5H	3101053300000	33pF	1234	R523	B7B	3001053300010	33Ω
466	C746	T4H	3101054710010	470pF	1235	R524	B7B	3001053300010	33Ω
467	C748	B5H	3101061040010	0.1uF	1236	R525	B8B	3001053300010	33Ω
468	C749	T5G	3101053900000	39pF	1237	R526	B7B	3001053300010	33Ω
469	C75	T7F	3101051020010	1000pF	1238	R527	B7B	3001053300010	33Ω
470	C750	B5H	3101071050240	1uF	1239	R528	B7C	3001056830000	68kΩ
471	C751	T6G	3101051000020	10pF	1240	R529	B7C	3001053330000	33kΩ
472	C752	T4I	3101074750000	4.7uF	1241	R530	T8D	3001051030000	10kΩ
473	C754	T4I	3101061050020	1uF	1242	R531	T8D	3001051030000	10kΩ
474	C755	T6I	3101074750000	4.7uF	1243	R532	T8C	3001051030000	10kΩ
475	C756	T6I	3101051040010	0.1uF	1244	R533	B7B	3001053300010	33Ω
476	C76	T8F	3101051010030	100pF	1245	R534	B8C	3001051030000	10kΩ
477	C763	T5H	3101051010030	100pF	1246	R535	B8C	3001051030000	10kΩ
478	C764	T5H	3101051010030	100pF	1247	R536	T5B	3001050000000	0Ω
479	C765	T5H	3101051010030	100pF	1248	R538	T7C	3001051030000	10kΩ
480	C766	T5H	3101051010030	100pF	1249	R539	T7C	3001051030000	10kΩ
481	C767	T5H	3101051010030	100pF	1250	R540	T8D	3001051030000	10kΩ
482	C769	T6G	3101051010030	100pF	1251	R541	T8C	3001051030000	10kΩ
483	C77	T8F	3101051010030	100pF	1252	R543	T7C	3001051030000	10kΩ
484	C78	T6F	3110071040000	0.1uF	1253	R544	B5B	3001050000000	0Ω
485	C79	T7E	3101051020010	1000pF	1254	R545	B7D	3001053300010	33Ω
486	C8	T7E	3101054710010	470pF	1255	R546	B2C	3001061010000	100Ω
487	C80	T8F	3101051030020	0.01uF	1256	R552	B7D	3001053300010	33Ω
488	C801	B1F	3101081020010	1000pF	1257	R553	B7D	3001053300010	33Ω
489	C802	B1F	3101063320000	3300pF	1258	R554	T8D	3001051020010	1kΩ
490	C803	B1F	3101063300000	33pF	1259	R555	T8D	3001051030000	10kΩ
491	C804	B1F	3101092260010	22uF	1260	R556	T2C	3001051010000	100Ω
492	C807	T5E	3101081060010	10uF	1261	R557	T2B	3001051010000	100Ω
493	C808	B5E	3101062210000	220pF	1262	R558	B2C	3001053330010	33kΩ
494	C809	B5E	3101062210000	220pF	1263	R559	B2B	3001053330010	33kΩ
495	C811	B6E	3101064710000	470pF	1264	R560	B2B	3001053330010	33kΩ
496	C814	B5E	3101061800000	18pF	1265	R561	B2C	3001053330010	33kΩ
497	C815	T5F	3001070000000	0Ω	1266	R562	B2C	3001053330010	33kΩ
498	C816	T3H	3101371590000	1.5pF	1267	R563	T2B	3001051030000	10kΩ
499	C817	T2H	3101064710000	470pF	1268	R564	B7C	3001050000000	0Ω
500	C818	B6E	3101061500010	15pF	1269	R565	B7C	3001050000000	0Ω
501	C82	T7F	3101051020010	1000pF	1270	R566	B7C	3001050000000	0Ω
502	C820	T3F	3101372000000	20pF	1271	R567	B7C	3001050000000	0Ω
503	C822	B6E	3101062210000	220pF	1272	R569	T2C	3001051030000	10kΩ
504	C823	T2F	3101080800010	8pF	1273	R570	T2C	3001064720000	4.7kΩ
505	C825	B2F	3101074700050	47pF	1274	R571	T6C	3001051030000	10kΩ
506	C826	T5E	3210306220000	22nH	1275	R573	T2C	3001054720000	4.7kΩ
507	C827	T3I	3101374710000	470pF	1276	R574	T2C	3001064720000	4.7kΩ
508	C829	B4E	3101061040010	0.1uF	1277	R575	T2B	3001053330010	33kΩ
509	C83	T8F	3101051040010	0.1uF	1278	R576	T2C	3001053330010	33kΩ
510	C830	T3H	3101080300010	3pF	1279	R577	T2B	3001061010000	100Ω
511	C831	T3G	3101371200000	12pF	1280	R578	B2B	3001061010000	100Ω
512	C833	T3F	3101371200000	12pF	1281	R579	B2B	3001061010000	100Ω
513	C8330	T3F	3101080500010	5pF	1282	R580	B2C	3001061010000	100Ω
514	C835	T1H	3101080300010	3pF	1283	R581	B2C	3001061010000	100Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
515	C836	T2H	3101080100010	1pF	1284	R6	T7F	3001050000000	0Ω
516	C837	T2H	3101080300010	3pF	1285	R6004	T5B	3001063320000	3.3kΩ
517	C838	T3I	3101080300010	3pF	1286	R6100	T4I	3001055110000	510Ω
518	C839	T5F	3101068200030	82pF	1287	R6101	T6I	3001056810000	680Ω
519	C84	T7F	3110071040000	0.1uF	1288	R6102	T5J	3001071000000	10Ω
520	C840	T5F	3101073300080	33pF	1289	R6103	T5I	3001052730010	27kΩ
521	C841	T3F	3101080400010	4pF	1290	R6104	T5J	3001052720000	2.7kΩ
522	C843	T5E	3101061510050	150pF	1291	R6105	T5J	3001055620000	5.6kΩ
523	C845	B4E	3101062210000	220pF	1292	R6106	T4J	3001066810000	680Ω
524	C846	T4F	3101071000050	10pF	1293	R6107	T5J	3001053320000	3.3kΩ
525	C847	T2I	3101061510050	150pF	1294	R6110	T5J	3001052220000	2.2kΩ
526	C848	T3J	3101061510050	150pF	1295	R6111	T4I	3001051040000	100kΩ
527	C85	T8E	3101051040010	0.1uF	1296	R6112	T6I	3001051040000	100kΩ
528	C850	B2I	3101084710010	470pF	1297	R6113	B4H	3001052740000	270kΩ
529	C851	T2I	3101080100010	1pF	1298	R6114	B4H	3001053300010	33Ω
530	C852	T2H	3101066800000	68pF	1299	R6115	B4H	3001051040000	100kΩ
531	C853	T5F	3101062210000	220pF	1300	R6116	B4H	3001060000000	0Ω
532	C854	T5F	3101061040010	0.1uF	1301	R6117	B7H	3001078200000	82Ω
533	C856	T1F	3101080200010	2pF	1302	R6118	B7H	3001053320000	3.3kΩ
534	C857	T3J	3101061800000	18pF	1303	R6119	B8H	3001051220000	1.2kΩ
535	C86	T7F	3101051040010	0.1uF	1304	R6120	T7I	3001055100010	51Ω
536	C861	T2I	3101061810060	180pF	1305	R6121	B7H	3001051800000	18Ω
537	C863	T6E	3101064720000	4700pF	1306	R6122	B7H	3001051220000	1.2kΩ
538	C864	T6E	3101062000000	20pF	1307	R6123	T4J	3001050000000	0Ω
539	C865	T6F	3101062400010	24pF	1308	R6124	B7I	3001052710010	270Ω
540	C866	T6F	3101068200030	82pF	1309	R6125	B7I	3001052710010	270Ω
541	C868	B4H	3101061040010	0.1uF	1310	R6126	B7H	3001078200000	82Ω
542	C87	T7E	3101051040010	0.1uF	1311	R6127	T4I	3001051030000	10kΩ
543	C870	T2G	3101080200010	2pF	1312	R6129	B7I	3001063310010	330Ω
544	C875	B4H	3101051510000	150pF	1313	R6130	T7I	3001055120030	5.1kΩ
545	C877	T6E	3101062210000	220pF	1314	R6131	T7I	3001051220000	1.2kΩ
546	C878	T6F	3101062210000	220pF	1315	R6132	T7I	3001055100010	51Ω
547	C879	T1G	3101080200010	2pF	1316	R6133	T7H	3001053310010	330Ω
548	C88	T7F	3110071040000	0.1uF	1317	R6134	T7H	3001053030000	30kΩ
549	C880	T6E	3101063330030	0.033uF	1318	R6135	T7H	3001054720000	4.7kΩ
550	C883	B4I	3101052210010	220pF	1319	R6136	T7H	3001052030000	20kΩ
551	C885	B2F	3101082700010	27pF	1320	R6137	T7I	3001053030000	30kΩ
552	C886	B5F	3101064730000	0.047uF	1321	R6138	B8I	3001060000000	0Ω
553	C887	B5F	3101062210000	220pF	1322	R6139	T8H	3001055630000	56kΩ
554	C888	B2F	3101063300000	33pF	1323	R6140	T4I	3001060000000	0Ω
555	C889	B2F	3101062200010	22pF	1324	R701	T5I	3001055100010	51Ω
556	C89	T7F	3101051040010	0.1uF	1325	R703	T6G	3001052220010	2.2kΩ
557	C890	B3I	3101052210010	220pF	1326	R704	T6H	3001055610010	560Ω
558	C891	T2I	3101051210000	120pF	1327	R705	T6H	3001051030000	10kΩ
559	C892	B5F	3101062210000	220pF	1328	R707	B6H	3001051810010	180Ω
560	C893	T1H	3101371010000	100pF	1329	R708	B6H	3001054720000	4.7kΩ
561	C894	B4H	3101051830020	0.018uF	1330	R709	B6H	3001061030010	10kΩ
562	C895	B4I	3101052210010	220pF	1331	R710	B6H	3001068220000	8.2kΩ
563	C896	B3G	3101052210010	220pF	1332	R711	T5G	3001053300010	33Ω
564	C897	B3G	3101052210010	220pF	1333	R712	B6H	3001052710010	270Ω
565	C898	B5C	3101052210010	220pF	1334	R713	T5H	3001051040000	100kΩ
566	C899	T3J	3101051210000	120pF	1335	R714	B5H	3001051820000	1.8kΩ
567	C9	T8G	3101051590000	1.5pF	1336	R715	T5G	3001053300010	33Ω
568	C90	T7F	3101051010030	100pF	1337	R716	B5H	3001055620000	5.6kΩ
569	C900	T5C	3101061050020	1uF	1338	R717	T5G	3001053300010	33Ω
570	C901	T5C	3101061050020	1uF	1339	R718	B5H	3001055110000	510Ω
571	C902	T2E	3101062200010	22pF	1340	R719	T5H	3001053300010	33Ω
572	C905	T2A	3101061050020	1uF	1341	R720	T5H	3001053300010	33Ω
573	C906	T2A	3101061050020	1uF	1342	R721	T5H	3001053300010	33Ω
574	C907	T4B	3101051040010	0.1uF	1343	R724	T5I	3001060000000	0Ω
575	C908	T5B	3101061050020	1uF	1344	R725	T5G	3001053300010	33Ω
576	C909	B2F	3101063310010	330pF	1345	R727	T4H	3001064730000	47kΩ
577	C91	T6F	3110071040000	0.1uF	1346	R728	T4H	3001064730000	47kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
578	C910	B4I	3101051020010	1000pF	1347	R802	B5E	3001062020030	2kΩ
579	C911	T3A	3101051040010	0.1uF	1348	R803	B5E	3001062020030	2kΩ
580	C912	T5C	3101072250100	2.2uF	1349	R808	B5E	3001061000000	10Ω
581	C913	B2F	3101063300000	33pF	1350	R809	B6E	3001068200000	82Ω
582	C914	T4D	3101092260010	22uF	1351	R810	B6E	3001061010000	100Ω
583	C915	T4C	3101082260020	22uF	1352	R811	B5E	3001063320000	3.3kΩ
584	C916	T2E	3101063320000	3300pF	1353	R813	T4F	3001084790000	4.7Ω
585	C917	T5D	3101071060010	10uF	1354	R814	B6E	3001061010000	100Ω
586	C918	T5D	3101052200010	22pF	1355	R815	T1I	3001082730000	27kΩ
587	C919	T5C	3101072260000	22uF	1356	R816	T2J	3001072210000	220Ω
588	C920	T4C	3101061030010	0.01uF	1357	R817	T2J	3001072210000	220Ω
589	C921	T5C	3101051040010	0.1uF	1358	R818	T4F	3001084790000	4.7Ω
590	C922	T5C	3101055600000	56pF	1359	R819	T3I	3001078200000	82Ω
591	C923	B4D	3101061050020	1uF	1360	R821	B2I	3001113300000	33Ω
592	C924	B4D	3101061050020	1uF	1361	R822	T3J	3001060000000	0Ω
593	C925	B4D	3101061050020	1uF	1362	R823	T2J	3001061010000	100Ω
594	C926	B7D	3101071060010	10uF	1363	R824	T5E	3101064700000	47pF
595	C927	T4D	3101061040010	0.1uF	1364	R825	T3I	3001113300000	33Ω
596	C928	T5H	3101081060010	10uF	1365	R826	T6F	3001060100000	1Ω
597	C93	T7F	3101051010030	100pF	1366	R827	T6E	3001063310000	330Ω
598	C930	B1F	3101061830000	0.018uF	1367	R828	T6F	3001060100000	1Ω
599	C931	T1E	3101062700010	27pF	1368	R829	T6F	3001063900000	39Ω
600	C932	T5C	3101062250000	2.2uF	1369	R830	B5E	3001074700000	47Ω
601	C933	B2A	3101092260010	22uF	1370	R831	B4H	3001051020000	1kΩ
602	C934	B4D	3101062250000	2.2uF	1371	R835	T6E	3001068200000	82Ω
603	C935	B5D	3101061040010	0.1uF	1372	R837	B4I	3001050000000	0Ω
604	C936	T5D	3101051010030	100pF	1373	R838	B4I	3001053330000	33kΩ
605	C938	T4D	3101092260010	22uF	1374	R839	B4H	3001053320000	3.3kΩ
606	C94	T7F	3110071040000	0.1uF	1375	R840	T3I	3101060800010	8pF
607	C940	B1F	3101066800000	68pF	1376	R841	B4H	3001053330000	33kΩ
608	C942	T4B	3101053310020	330pF	1377	R842	B4I	3001051230000	12kΩ
609	C943	B1F	3101062700010	27pF	1378	R843	T6F	3001061230020	12kΩ
610	C944	B2B	3101051020010	1000pF	1379	R844	T6F	3001065620000	5.6kΩ
611	C945	B2A	3101054710010	470pF	1380	R845	T6E	3001062030000	21kΩ
612	C946	T5D	3101061050020	1uF	1381	R846	T6E	3001061230020	12kΩ
613	C947	T5B	3101051040010	0.1uF	1382	R847	B4H	3001054730000	47kΩ
614	C948	T4B	3101051040010	0.1uF	1383	R849	B4I	3001052220010	2.2kΩ
615	C949	B2G	3101058200000	82pF	1384	R853	T2I	3001064710000	470Ω
616	C95	T7F	3101051030020	0.01uF	1385	R854	B4I	3001055630000	56kΩ
617	C950	T2D	3101051040010	0.1uF	1386	R856	B4F	3001083300000	33Ω
618	C951	T4C	3110992270000	220uF	1387	R857	B4I	3001050000000	0Ω
619	C952	T3C	3101061030010	0.01uF	1388	R858	B5F	3001069120000	9.1kΩ
620	C953	B3G	3001051830000	18kΩ	1389	R859	B5F	3001061020010	1kΩ
621	C955	T3D	3101051040010	0.1uF	1390	R860	B4F	3001084790000	4.7Ω
622	C956	T3D	3101081060010	10uF	1391	R861	T4F	3001084790000	4.7Ω
623	C957	T3D	3101081060010	10uF	1392	R862	B6E	3001065600000	56Ω
624	C958	T3D	3101051040010	0.1uF	1393	R863	B2I	3001050000000	0Ω
625	C959	B2G	3101061040010	0.1uF	1394	R864	B3G	3001054740010	470kΩ
626	C96	T7F	3101051020010	1000pF	1395	R865	B4H	3001053930000	39kΩ
627	C961	B3A	3101061040010	0.1uF	1396	R866	B4I	3001052220010	2.2kΩ
628	C962	B6D	3101051050000	1uF	1397	R867	B4G	3001058220000	8.2kΩ
629	C963	B7D	3101061040010	0.1uF	1398	R869	B4H	3001051020000	1kΩ
630	C965	B7D	3101062250000	2.2uF	1399	R870	B4H	3001051230000	12kΩ
631	C966	T5B	3101061050020	1uF	1400	R872	B4H	3001051840000	180kΩ
632	C968	B3B	3101051040010	0.1uF	1401	R874	B4I	3001051020000	1kΩ
633	C969	B3B	3101051040010	0.1uF	1402	R875	B4I	3001053330000	33kΩ
634	C97	T8F	3101051030020	0.01uF	1403	R876	B3G	3001055630000	56kΩ
635	C978	T7D	3101051040010	0.1uF	1404	R877	B5E	3001054730000	47kΩ
636	C979	T6D	3101051040010	0.1uF	1405	R880	B5E	3001074720010	4.7kΩ
637	C98	T8F	3101051040010	0.1uF	1406	R881	B5E	3001074720010	4.7kΩ
638	C980	T2D	3101081060010	10uF	1407	R882	B4I	3001052240000	220kΩ
639	C981	T4D	3101081060010	10uF	1408	R883	B3G	3001055630000	56kΩ
640	C982	T7C	3101051040010	0.1uF	1409	R884	B3G	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
641	C983	T7D	3101051050000	1uF	1410	R885	B3G	3001051030000	10kΩ
642	C984	T7D	3101051020010	1000pF	1411	R886	B3G	3001052240000	220kΩ
643	C99	T8F	3101052710000	270pF	1412	R887	B4I	3001058210000	820Ω
644	C997	T7C	3101062240030	0.22uF	1413	R889	B5C	3001050000000	0Ω
645	D100	T7F	3303030800020	Switching diode	1414	R890	B4H	3001053320000	3.3kΩ
646	D101	B7E	3304010100220	Varactor	1415	R891	B3G	3001053320000	3.3kΩ
647	D102	B7E	3304010100060	Varactor	1416	R892	B3I	3001058230000	82kΩ
648	D103	B3A	3303240000000	Switching diode	1417	R894	B4I	3001050000000	0Ω
649	D105	B7F	3304010100220	Varactor	1418	R895	B4H	3001055130010	51kΩ
650	D106	B7F	3304010100220	Varactor	1419	R896	T6G	3001057520000	7.5kΩ
651	D107	B7G	3304010100220	Varactor	1420	R897	B2G	3001054740010	470kΩ
652	D108	B6G	3304010100220	Varactor	1421	R898	B2G	3001054740010	470kΩ
653	D109	B7G	3304010100220	Varactor	1422	R899	B2G	3001054740010	470kΩ
654	D110	B6G	3304010100220	Varactor	1423	R902	B3G	3001050000000	0Ω
655	D111	B7E	3304010100220	Varactor	1424	R904	B5C	3001050000000	0Ω
656	D112	B7E	3304010100060	Varactor	1425	R905	B5C	3001053330000	33kΩ
657	D113	B7F	3304010100060	Varactor	1426	R906	T4H	3001064730000	47kΩ
658	D116	B7E	3304010100060	Varactor	1427	R908	T4H	3001054720000	4.7kΩ
659	D117	B7E	3304010100220	Varactor	1428	R910	T6D	3001054720000	4.7kΩ
660	D121	B7G	3304010100220	Varactor	1429	R911	T5B	3001061030000	10kΩ
661	D122	B7G	3304010100220	Varactor	1430	R913	T6D	3001054720000	4.7kΩ
662	D125	B7G	3304010100220	Varactor	1431	R917	T5D	3001053340010	330kΩ
663	D126	B7G	3304010100220	Varactor	1432	R919	T5D	3001051540000	150kΩ
664	D127	T7E	3303030100010	Switching diode	1433	R924	B4D	3001061020010	1kΩ
665	D128	B4I	3303030100010	Switching diode	1434	R925	T5D	3001064720000	4.7kΩ
666	D129	B5C	3303030800020	Switching diode	1435	R929	B2A	3001051010000	100Ω
667	D230	B4C	3310240000000	ESD protection diode	1436	R930	B3A	3001051030000	10kΩ
668	D231	B4C	3310240000000	ESD protection diode	1437	R931	B3A	3001054730000	47kΩ
669	D232	B7D	3310240000000	ESD protection diode	1438	R932	B3A	3001052030000	20kΩ
670	D233	T2B	3310240000000	ESD protection diode	1439	R934	B3A	3001055130010	51kΩ
671	D234	T5C	3310240200000	ESD protection diode	1440	R937	B3B	3001054720000	4.7kΩ
672	D236	T6C	3310240200000	ESD protection diode	1441	R938	B3B	3001051030000	10kΩ
673	D237	T4B	3310990000090	ESD protection diode	1442	R940	B3B	3001052230010	22kΩ
674	D238	T2C	3310240000000	ESD protection diode	1443	R941	B3B	3001051020010	1kΩ
675	D239	T5B	3310240200000	ESD protection diode	1444	R942	B3B	3001054720000	4.7kΩ
676	D240	T2A	3310240000000	ESD protection diode	1445	R943	B2A	3001064730000	47kΩ
677	D402	T2C	3310240000000	ESD protection diode	1446	R944	B3B	3001052230010	22kΩ
678	D403	T2A	3310240000000	ESD protection diode	1447	R945	B3B	3001051030000	10kΩ
679	D404	T2B	3310240000000	ESD protection diode	1448	R946	B3A	3001071020000	1kΩ
680	D405	T2B	3310240000000	ESD protection diode	1449	R947	B3B	3001051020010	1kΩ
681	D406	T2B	3310240000000	ESD protection diode	1450	R948	B2A	3001051010000	100Ω
682	D407	T8B	3399040600010	ESD protection diode	1451	R949	B2A	3001054730000	47kΩ
683	D408	B8C	3399040600010	ESD protection diode	1452	R950	T3C	3001051030000	10kΩ
684	D409	T2C	3310240000040	ESD protection diode	1453	R951	B3A	3001053330000	33kΩ
685	D410	B2B	3310240000040	ESD protection diode	1454	R952	B3A	3001053330000	33kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
686	D450	T2C	3699037000010	USB protection IC	1455	R953	B3D	3001061000000	10Ω
687	D6100	T4J	3399030000010	PIN diode	1456	R954	B6D	3001061020010	1kΩ
688	D6101	T4J	3304010101100	Varactor	1457	R955	B2A	3001052030000	20kΩ
689	D6102	T4J	3304010101100	Varactor	1458	R956	B2A	3001051840000	180kΩ
690	D6103	T6J	3304010101100	Varactor	1459	R957	B2A	3001051020010	1kΩ
691	D6104	T6J	3304010101100	Varactor	1460	R958	B3D	3001066810000	680Ω
692	D6105	T5J	3399990004910	Limiter diode	1461	R959	B2A	3001056830000	68kΩ
693	D6106	B7J	3699019000000	Mixer IC	1462	R961	B3D	3001083310010	330Ω
694	D6204	B3A	3303030100010	Switching diode	1463	R962	T3C	3001060000000	0Ω
695	D701	B6G	3304010100220	Varactor	1464	R963	T3C	3001060000000	0Ω
696	D702	B5H	3304010100180	Varactor	1465	R964	T3C	3001052220010	2.2kΩ
697	D801	T1H	3303990000020	Switching diode	1466	R965	T3C	3001060000000	0Ω
698	D802	T2I	3303990000020	Switching diode	1467	R966	B2D	3001161510010	150Ω
699	D803	T3J	3303030300000	Schottky diode	1468	R968	T2C	3001052220000	2.2kΩ
700	D804	T2I	3303030300000	Schottky diode	1469	R969	T2C	3001064730000	47kΩ
701	D805	B4H	3302030500030	Zener diode	1470	R970	T2C	3001061020010	1kΩ
702	D900	T2D	3399100000010	TVS diode	1471	R971	T3C	3099052741000	2.74kΩ
703	D902	T4C	3301100300030	Rectifier diode	1472	R972	T3C	3001062220000	2.2kΩ
704	D910	B2A	3302030500010	Zener diode	1473	R974	B3A	3001062720000	2.7kΩ
705	D911	B2A	3302030500010	Zener diode	1474	R975	B3A	3001052030000	20kΩ
706	D914	B3A	3303240000000	Switching diode	1475	R976	T7D	3001050000000	0Ω
707	D915	T3C	3303010500290	Switching diode	1476	R978	B3A	3001052720000	2.7kΩ
708	D916	T2A	3303010500090	Switching diode	1477	R979	T6C	3001051030000	10kΩ
709	D917	T3C	3302030500030	Zener diode	1478	R980	T6C	3001051040000	100kΩ
710	D918	T3C	3302030500030	Zener diode	1479	R981	B3A	3001051030000	10kΩ
711	D919	T2A	3303010500090	Switching diode	1480	R982	T3C	3001051040000	100kΩ
712	D920	B2B	3303240000000	Switching diode	1481	R983	T6D	3001050000000	0Ω
713	D921	T2A	3302030500030	Zener diode	1482	R984	B3A	3001052210000	220Ω
714	D922	T7C	3303010500090	Switching diode	1483	R985	T6C	3001050000000	0Ω
715	F900	B2B	4002000000340	Fuse	1484	R986	T6D	3001050000000	0Ω
716	J400	T8C	5201020200030	Board-to-board connector	1485	R987	T7C	3001050000000	0Ω
717	J404	B8C	5206040200010	FFC connector	1486	RN230	B6C	3005051010010	100Ω
718	L1	B7F	3213212332000	3.3uH	1487	RN500	B7B	3005051010011	100Ω
719	L103	B7E	3217607471000	470nH	1488	RT804	B3G	3003061040000	100kΩ
720	L105	B7E	3237199050010	Air-core coil 5nH	1489	S1	/	6202720000010	PA heat sink pad
721	L106	B7E	3214307180000	18nH	1490	T6100	B7J	3259999999080	Transformer
722	L107	B7E	3217607471000	470nH	1491	T6101	B8J	3259999999080	Transformer
723	L108	B6E	3217607471000	470nH	1492	U100	T8F	3604019000000	PLL IC
724	L110	B7F	3217607471000	470nH	1493	U101	T7F	3616059000000	Switch IC
725	L112	B6E	3217607471000	470nH	1494	U102	T7E	3616059000000	Switch IC
726	L114	B7F	3237199050010	Air-core coil 5nH	1495	U201	B5B	3602017000030	Audio amplification IC
727	L115	B7F	3214307180000	18nH	1496	U231	B6C	3613010000000	Baseband IC
728	L116	B7E	3217607471000	470nH	1497	U232	T5B	3612024000020	Memory
729	L117	B7G	3217607471000	470nH	1498	U233	T6A	3612016000000	Memory
730	L118	B8G	3217607471000	470nH	1499	U235	B5C	3605010000020	Operational amplifier
731	L121	B7F	3217607471000	470nH	1500	U236	B4C	3605010000020	Operational amplifier
732	L122	T8G	3210306150000	15nH	1501	U237	B6B	3616010000000	Switch IC
733	L123	T7G	3210306150000	15nH	1502	U238	B6A	3605008005070	Operational amplifier
734	L124	B7G	3237199080000	Air-core coil 8nH	1503	U302	T6B	3610010000010	MCU
735	L126	B7G	3214307270010	27nH	1504	U326	T3B	3625999000060	GPS module
736	L127	B7G	3217607471000	470nH	1505	U327	T6D	3607010000400	Logic IC
737	L128	T8G	3210306150000	15nH	1506	U328	B2C	3607010000400	Logic IC
738	L129	B6G	3217607471000	470nH	1507	U401	B2B	3616010000150	Switch IC
739	L131	T7E	3221506601000	Ferrite bead	1508	U500	B7C	3606010000010	D/A conversion IC
740	L132	T7E	3210306270000	27nH	1509	U6000	B4H	3605002057090	Operational amplifier
741	L133	B6G	3217607471000	470nH	1510	U701	T5H	3603999000000	IF IC
742	L134	B7G	3217607471000	470nH	1511	U702	T4I	3608006000000	Power

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
									management IC
743	L135	T7E	3210306270000	27nH	1512	U703	T4H	3608015000060	Power management IC
744	L136	T6E	3212106120000	12nH	1513	U801	B4H	3605026000020	Operational amplifier
745	L137	B7G	3237199080000	Air-core coil 8nH	1514	U802	B4H	3605002054590	Operational amplifier
746	L139	B7G	3214307270010	27nH	1515	U804	B3G	3605008005070	Operational amplifier
747	L140	B7G	3217607471000	470nH	1516	U900	T5C	3608015000180	Power management IC
748	L147	T7B	3210406471000	470nH	1517	U901	T2A	3608015000180	Power management IC
749	L151	T7B	3210406471000	470nH	1518	U902	T5C	3608010000350	Power management IC
750	L152	B7F	3221506601000	Ferrite bead	1519	U903	T5B	3608015000170	Power management IC
751	L154	T8F	3213306561000	0.56uH	1520	U905	B4D	3608015000060	Power management IC
752	L156	T7F	3213212332000	3.3uH	1521	U907	T6D	3626999000020	Reset IC
753	L162	T7G	3210306270000	27nH	1522	U909	B4D	3608015000180	Power management IC
754	L166	T7G	3101060800010	8pF	1523	U910	T7C	3626015000010	Reset IC
755	L168	B8E	3210306270000	27nH	1524	U914	T3C	3605008005070	Operational amplifier
756	L169	T8G	3210306330000	33nH	1525	U915	B7D	3608015000060	Power management IC
757	L171	T7G	3210306150000	15nH	1526	U917	B2A	3609006003050	Reset IC
758	L173	T7G	3210306150000	15nH	1527	U918	B7D	3608015000210	Power management IC
759	L2	T7E	3210306150000	15nH	1528	U919	T5D	3608010006230	Power management IC
760	L232	B4C	3221506300000	Ferrite bead	1529	W321	T3A	4411100002000	IPX RF connector
761	L233	B5C	3211506101000	Ferrite bead	1530	X100	T8E	3701019250030	TCXO
762	L234	B5D	3211506101000	Ferrite bead	1531	X302	T7B	3701019250040	TCXO
763	L235	B5D	3211506101000	Ferrite bead	1532	X375	T7B	3701327610060	Crystal
764	L321	T3A	3212106390000	39nH	1533	Z6100	T8I	3802733540030	Crystal filter
765	L322	T3A	3221506300000	Ferrite bead	1534	/	/	3303010500290	Switching diode
766	L4	B8F	3217607471000	470nH	1535	/	/	41MD7801000L0	PCB main board
767	L401	B7A	3221506300000	Ferrite bead	1536	/	/	1616100001420	Built-in software
768	L402	B7A	3221506300000	Ferrite bead	1537	/	/	9830000000001	Voice encoding/decoding software
769	L403	B7A	3221506300000	Ferrite bead	/	/	/	/	/

12.4 Main Board (45 W)

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	B	/	6203077000000	VCO shielding mask	774	L402	B7A	3221506300000	Ferrite bead
2	C	/	6202010000010	APC shielding mask	775	L403	B7A	3221506300000	Ferrite bead
3	C1	T7E	3101051020010	1000pF	776	L404	B7A	3221506300000	Ferrite bead
4	C10	B7G	3101060900010	9PF	777	L405	B7A	3221506300000	Ferrite bead
5	C100	T7G	3101052210010	220pF	778	L406	B7A	3221506300000	Ferrite bead
6	C1000	T8F	3101052210010	220pF	779	L407	B7B	3221506300000	Ferrite bead
7	C1001	B7F	3101054710010	470pF	780	L408	B7B	3221506300000	Ferrite bead
8	C1002	T8F	3101051020010	1000pF	781	L409	B7B	3221506300000	Ferrite bead
9	C1003	B7F	3101054710010	470pF	782	L410	B7B	3221506300000	Ferrite bead
10	C1004	T8F	3101063300000	33pF	783	L411	B7B	3221506300000	Ferrite bead
11	C1005	T6F	3110071040000	0.1uF	784	L412	B7B	3221506300000	Ferrite bead
12	C1006	B8F	3101051040010	0.1uF	785	L414	B8C	3001050000000	0Ω
13	C1007	T6F	3110071040000	0.1uF	786	L415	B8C	3001050000000	0Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
14	C101	T7E	3101051590000	1.5pF	787	L417	T2C	3001050000000	0Ω
15	C1010	T7F	3101051020010	1000pF	788	L418	T2C	3001050000000	0Ω
16	C1015	B7F	3101054710010	470pF	789	L5	B7E	3217607471000	470nH
17	C1016	T7F	3101064730000	0.047uF	790	L6	T8F	3221506601000	Ferrite bead
18	C102	T7G	3101060200010	2pF	791	L6100	T6I	3211506101000	Ferrite bead
19	C103	T4G	3110071040000	0.1uF	792	L6101	T4I	3211506101000	Ferrite bead
20	C11	T7E	3101050300000	3pF	793	L6102	T5I	3210306221000	220nH
21	C12	B7G	3101050400010	4pF	794	L6103	T6J	3210306150000	15nH
22	C121	T7F	3101051010030	100pF	795	L6110	T5J	3210306150000	15nH
23	C122	T7F	3101061040010	0.1uF	796	L6114	B4I	3211506101000	Ferrite bead
24	C123	T7F	3101061040010	0.1uF	797	L6115	B7H	3211506101000	Ferrite bead
25	C13	B7E	3101053690030	3.6pF	798	L6116	B8H	3210306150000	15nH
26	C132	T7F	3101062240000	0.22uF	799	L6117	B8I	3210306180000	18nH
27	C1320	T8F	3101051010030	100pF	800	L6118	B8I	3210306150000	15nH
28	C136	B7E	3101072250110	2.2uF	801	L6119	B8I	3210306180000	18nH
29	C14	T7E	3101051200020	12pF	802	L6120	T7I	3210306470000	47nH
30	C141	B7F	3101051040010	0.1uF	803	L6121	T7I	3211506101000	Ferrite bead
31	C142	B7F	3101054710010	470pF	804	L6122	T7I	3101061040010	0.1uF
32	C147	B8F	3101052210010	220pF	805	L6123	T7H	3213306821000	0.82uH
33	C148	B7H	3101054710010	470pF	806	L6125	T8I	3210406331000	330nH
34	C149	B7H	3101051040010	0.1uF	807	L6126	T8H	3101061040010	0.1uF
35	C15	T7E	3101050800000	8pF	808	L6216	T6J	3101052210010	220pF
36	C150	B8G	3101052210010	220pF	809	L6217	T6J	3101052210010	220pF
37	C151	B7F	3101061000000	10pF	810	L7	T7G	3221506601000	Ferrite bead
38	C152	B7E	3101053690030	3.6pF	811	L701	T6H	3221506601000	Ferrite bead
39	C153	B7F	3101053300000	33pF	812	L702	T6H	3221506601000	Ferrite bead
40	C154	B7G	3101053000010	30pF	813	L703	T6H	3221506601000	Ferrite bead
41	C155	B7G	3101061000000	10pF	814	L704	T5I	3213212103000	10uH
42	C156	B6E	3101052210010	220pF	815	L705	T5I	3213212103000	10uH
43	C157	B7F	3101055600000	56pF	816	L706	T4H	3221506601000	Ferrite bead
44	C158	B7F	3101052000020	20pF	817	L707	T5I	3221506601000	Ferrite bead
45	C159	B7F	3101053690030	3.6pF	818	L708	B6H	3217107221010	220nH
46	C16	T6E	3101050500010	5pF	819	L709	T5G	3221506601000	Ferrite bead
47	C160	B6G	3101052210010	220pF	820	L710	T5H	3221506601000	Ferrite bead
48	C161	B7G	3101055600000	56pF	821	L711	T5H	3221506601000	Ferrite bead
49	C162	B7G	3101052700000	27pF	822	L712	T6I	3221506601000	Ferrite bead
50	C163	B8F	3101051040010	0.1uF	823	L713	T5G	3213306561000	0.56uH
51	C164	B7G	3101050500010	5pF	824	L714	T5H	3221506601000	Ferrite bead
52	C165	B7G	3101050500010	5pF	825	L715	B5H	3213212332000	3.3uH
53	C166	B8F	3101050500010	5pF	826	L716	T6H	3210406331000	MURATA(RoHS)
54	C167	B8G	3101051040010	0.1uF	827	L717	T6G	3212206682000	6.8uH
55	C168	B8G	3101050500010	5pF	828	L718	B6H	3210406471000	470nH
56	C17	T7E	3101060600010	6pF	829	L8	T8F	3221506601000	Ferrite bead
57	C177	B7F	3101060800010	8pF	830	L801	B2F	3221513600000	Ferrite bead
58	C178	T7G	3101060200010	2pF	831	L802	T5E	3221513600000	Ferrite bead
59	C179	T7G	3101062490000	2.4pF	832	L803	B2F	3221513600000	Ferrite bead
60	C18	B7G	3101050400010	4pF	833	L804	T2F	3233099160000	Air-core coil 16nH
61	C181	B7E	3101050590010	0.5pF	834	L805	B5E	3210306220000	22nH
62	C184	B6E	3101052210010	220pF	835	L806	B3G	3001060000000	0Ω
63	C185	B7E	3101054700010	47pF	836	L807	T1H	3210306101000	100nH
64	C186	B7F	3101052210010	220pF	837	L808	T1G	3101371010000	100pF
65	C189	T7G	3101061200000	12pF	838	L809	T2H	3233099160000	Air-core coil 16nH
66	C190	T7G	3101060700020	7pF	839	L810	T3H	3233099160000	Air-core coil 16nH
67	C191	B7E	3101051500020	15pF	840	L811	B6E	3217106829010	8.2nH
68	C192	T7F	3101060400010	4pF	841	L813	T3H	3233099160000	Air-core coil 16nH
69	C193	B7E	3101052400010	24pF	842	L814	T5E	3212106569000	5.6nH
70	C194	B7E	3101052210010	220pF	843	L815	B2I	3221506601000	Ferrite bead
71	C195	B7E	3101051040010	0.1uF	844	L816	B2H	3233099111000	Air-core coil 111nH
72	C196	B7E	3101060700020	7pF	845	L817	T2I	3233099160000	Air-core coil 16nH
73	C197	B6G	3101052210010	220pF	846	L819	T5F	3233099470000	Air-core coil 47nH
74	C198	B7E	3101053690000	3.6pF	847	L820	T5E	3217112102020	1uH
75	C199	T7E	3101051030020	0.01uF	848	L821	B4H	3221506601000	Ferrite bead

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
76	C2	T6E	3101060200010	2pF	849	L822	B5E	3221506601000	Ferrite bead
77	C20	T8G	3101060800010	8pF	850	L823	T6F	3001060000000	0Ω
78	C200	B5D	3101061050020	1uF	851	L824	T6F	3221506601000	Ferrite bead
79	C22	T7H	3101050800000	8pF	852	L825	T6E	3221506601000	Ferrite bead
80	C23	B8E	3101052210010	220pF	853	L826	T5E	3101061600000	16pF
81	C232	B4C	3101051040010	0.1uF	854	L827	T6E	3212106390000	39nH
82	C233	B4C	3101051040010	0.1uF	855	L828	T1J	3217112102020	1uH
83	C234	B4C	3101081060010	10uF	856	L829	T5F	3101065600040	56pF
84	C235	B4C	3101051030020	0.01uF	857	L830	T5F	3101065600040	56pF
85	C236	B6C	3101051040010	0.1uF	858	L832	T3I	3212106689000	6.8nH
86	C237	B5B	3101054740020	0.47uF	859	L833	T2J	3101064700000	47pF
87	C238	B5D	3101061050020	1uF	860	L9	T7G	3221506601000	Ferrite bead
88	C239	B6C	3101051040010	0.1uF	861	L900	T4B	3221513600000	Ferrite bead
89	C24	B8E	3101051040010	0.1uF	862	L901	T5B	3221506300000	Ferrite bead
90	C240	B6D	3101051040010	0.1uF	863	L902	T4C	3217699153000	15uH
91	C241	B5B	3001060000000	0Ω	864	L903	T5C	3213099472000	4.7uH
92	C242	B6B	3101062210000	220pF	865	L904	B4D	3221506181000	Ferrite bead
93	C243	B6B	3101051040010	0.1uF	866	L906	B2B	3221513600000	Ferrite bead
94	C245	B6A	3101062210000	220pF	867	L908	B5D	3221506181000	Ferrite bead
95	C246	B6B	3101052230000	0.022uF	868	L909	T7A	3221506181000	Ferrite bead
96	C247	B5C	3101052210010	220pF	869	L912	T5C	3221506300000	Ferrite bead
97	C248	B6C	3101051040010	0.1uF	870	L913	T6C	3221506300000	Ferrite bead
98	C249	B5C	3101061050020	1uF	871	L916	T3D	3221513600000	Ferrite bead
99	C25	B8E	3101050500010	5pF	872	L930	T4D	3241799103000	10uH
100	C250	B5B	3101052210010	220pF	873	L931	T5D	3213099472000	4.7uH
101	C251	B5D	3101061050020	1uF	874	L940	T2D	3221513600000	Ferrite bead
102	C252	B5B	3101061050020	1uF	875	Q100	B7E	3408002000080	NPN transistor
103	C253	B5B	3101061050020	1uF	876	Q101	B8E	3403999000000	Transistor
104	C254	B5C	3101052210010	220pF	877	Q102	T7E	3401002000990	NPN transistor
105	C255	B5C	3101051050000	1uF	878	Q103	B7F	3408002000080	NPN transistor
106	C256	B5D	3101051010030	100pF	879	Q104	B7F	3403003000060	NPN transistor
107	C257	B5C	3101061050020	1uF	880	Q105	B8F	3403999000000	Transistor
108	C258	B5C	3101051040010	0.1uF	881	Q106	B7G	3408002000080	NPN transistor
109	C259	B5D	3101061050020	1uF	882	Q107	T7E	3404006000000	NPN transistor
110	C26	B7E	3101060700020	7pF	883	Q108	B8F	3403999000000	Transistor
111	C260	B5C	3101051030020	0.01uF	884	Q109	T7G	3404006000000	NPN transistor
112	C261	B5C	3101051030020	0.01uF	885	Q110	B7G	3408002000080	NPN transistor
113	C262	B5D	3101061050020	1uF	886	Q111	T8G	3401002000990	NPN transistor
114	C263	B5C	3101061050020	1uF	887	Q112	B8H	3403999000000	Transistor
115	C264	B5B	3101061050020	1uF	888	Q116	T7G	3403999000000	Transistor
116	C265	B5B	3101052210010	220pF	889	Q117	T6E	3403999000000	Transistor
117	C266	B5C	3101061050020	1uF	890	Q230	B6A	3499000000150	Transistor
118	C267	B5D	3101051040010	0.1uF	891	Q231	B5C	3499000000150	Transistor
119	C268	B6A	3101064740010	0.47uF	892	Q232	B5D	3499000000150	Transistor
120	C269	B5C	3101052210010	220pF	893	Q233	B4B	3499000000150	Transistor
121	C27	B7E	3101050590010	0.5pF	894	Q234	B4C	3499000000150	Transistor
122	C270	B5D	3101052210010	220pF	895	Q235	B4C	3499000000150	Transistor
123	C271	B5D	3101052210010	220pF	896	Q323	T7C	3403008000010	Transistor
124	C272	B5D	3101052210010	220pF	897	Q400	B2A	3403002000000	PNP transistor
125	C273	B5D	3101052210010	220pF	898	Q401	B2A	3403008000010	Transistor
126	C274	B5D	3101051040010	0.1uF	899	Q402	T2B	3403008000010	Transistor
127	C275	B4B	3101071060010	10uF	900	Q403	B2A	3403008000010	Transistor
128	C276	B4B	3101051050000	1uF	901	Q404	B2B	3403008000010	Transistor
129	C277	B4B	3101061050020	1uF	902	Q405	T2A	3403008000010	Transistor
130	C278	B4C	3101061050020	1uF	903	Q406	B2C	3414999000000	Transistor
131	C279	B4C	3101061050020	1uF	904	Q407	B2B	3414999000000	Transistor
132	C28	B7E	3101052210010	220pF	905	Q408	B2B	3414999000000	Transistor
133	C280	B4C	3101052210010	220pF	906	Q409	B2C	3414999000000	Transistor
134	C281	B4C	3101061050020	1uF	907	Q410	B2C	3414999000000	Transistor
135	C282	B4C	3101061050020	1uF	908	Q411	T2B	3414999000000	Transistor
136	C283	B6A	3101061040010	0.1uF	909	Q412	T2C	3414999000000	Transistor
137	C284	B5B	3101092260010	22uF	910	Q413	T6C	3403008000010	Transistor
138	C285	B5A	3101051040010	0.1uF	911	Q414	T2C	3414999000000	Transistor

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
139	C286	B5D	3101081060010	10uF	912	Q415	T2C	3599990000710	P-MOSFET
140	C287	B5A	3101064740000	0.47uF	913	Q416	T2C	3414001000020	PNP transistor
141	C288	B5B	3101051010030	100pF	914	Q6100	T4J	3499000000150	Transistor
142	C289	B6A	3101061040010	0.1uF	915	Q6101	T5I	3403014000020	Transistor
143	C29	B8F	3101052210010	220pF	916	Q6102	T5J	3404999000000	NPN transistor
144	C290	B6B	3101061050020	1uF	917	Q6103	B8I	3404999000000	NPN transistor
145	C291	B6B	3101061050020	1uF	918	Q6104	T7I	3404006000000	NPN transistor
146	C292	B5C	3101064750030	4.7uF	919	Q6105	T7H	3404006000000	NPN transistor
147	C293	B6B	3101071060010	10uF	920	Q701	B6H	3408002000000	NPN transistor
148	C294	B5A	3101063340010	0.33uF	921	Q702	B6H	3403003000060	NPN transistor
149	C295	B5C	3101051010030	100pF	922	Q801	B6E	3404999000000	NPN transistor
150	C296	B5A	3101051010030	100pF	923	Q802	T4G	3601017000000	RF PA module
151	C297	B4C	3101064710000	470pF	924	Q803	T4F	3601017000000	RF PA module
152	C298	B5D	3101061050020	1uF	925	Q804	T5F	3504990000070	N-MOSFET
153	C299	B5D	3101061050020	1uF	926	Q805	T5E	3504990000010	PA MOSFET
154	C3	B7G	3101054700010	47pF	927	Q810	B5E	3403002000000	PNP transistor
155	C30	B8F	3101051040010	0.1uF	928	Q811	B5E	3403008000010	Transistor
156	C300	B4C	3101061040010	0.1uF	929	Q812	B4G	3403008000010	Transistor
157	C301	B5A	3101092260010	22uF	930	Q813	B4G	3403008000010	Transistor
158	C302	B5D	3101054710010	470pF	931	Q902	T4H	3403002000000	PNP transistor
159	C303	B5B	3101051040010	0.1uF	932	Q903	T5H	3403008000010	Transistor
160	C305	B5B	3101051050000	1uF	933	Q905	B3A	3499000000150	Transistor
161	C306	B5B	3101051030020	0.01uF	934	Q906	B3B	3414001000020	PNP transistor
162	C307	B5B	3101051010030	100pF	935	Q908	B3B	3403008000010	Transistor
163	C308	B7A	3101051040010	0.1uF	936	Q909	B3B	3403002000010	PNP transistor
164	C309	B7A	3101051010030	100pF	937	Q910	B3B	3414001000020	PNP transistor
165	C31	B7F	3101060500010	5pF	938	Q912	B3A	3403008000010	Transistor
166	C310	T6A	3101051050000	1uF	939	Q913	B2A	3403008000010	Transistor
167	C311	B5B	3101051040010	0.1uF	940	Q914	B3B	3403008000010	Transistor
168	C32	B8G	3101050500010	5pF	941	Q916	B2A	3599990000610	N-MOSFET
169	C325	T8B	3101051040010	0.1uF	942	Q921	B2E	3404999000020	NPN transistor
170	C326	T6C	3101051010030	100pF	943	Q922	T2C	3403008000010	Transistor
171	C329	T6D	3101051040010	0.1uF	944	Q923	T2C	3403008000010	Transistor
172	C33	B8G	3101051010030	100pF	945	R1	T8G	3101053300000	33pF
173	C330	T3A	3101051040010	0.1uF	946	R109	T8F	3001051000000	10Ω
174	C331	T2A	3101071060010	10uF	947	R111	T7F	3001061210000	120Ω
175	C332	T2A	3101051040010	0.1uF	948	R1110	T8G	3001053300010	33Ω
176	C333	T3A	3101071060010	10uF	949	R114	T7F	3001065600000	56Ω
177	C334	T8D	3101051040010	0.1uF	950	R117	B7E	3001051040010	100kΩ
178	C335	B6B	3101051010030	100pF	951	R120	B7E	3001054730000	47kΩ
179	C336	T7A	3101051040010	0.1uF	952	R122	B8E	3001056800010	68Ω
180	C337	T7B	3101051020010	1000pF	953	R123	B8G	3001052700010	27Ω
181	C338	T7B	3101051020010	1000pF	954	R128	B7E	3001051830000	18kΩ
182	C339	B7B	3101051010030	100pF	955	R129	B8E	3001051010000	100Ω
183	C34	B8E	3101051010030	100pF	956	R130	B8G	3001052210000	220Ω
184	C340	T7A	3101051040010	0.1uF	957	R131	B8F	3001053320000	3.3kΩ
185	C341	B6B	3101051010030	100pF	958	R132	B8G	3001056820000	6.8kΩ
186	C342	B6C	3101051010030	100pF	959	R135	B8E	3001051010000	100Ω
187	C343	T7C	3101051010030	100pF	960	R136	B8G	3001052210000	220Ω
188	C344	T7D	3101051010030	100pF	961	R137	B7E	3001051010040	100Ω
189	C345	T7C	3101051010030	100pF	962	R138	B7F	3001058220000	8.2kΩ
190	C346	T7C	3101051010030	100pF	963	R139	B7E	3001051010040	100Ω
191	C347	T6D	3101051010030	100pF	964	R140	B7E	3001051010040	100Ω
192	C348	T6C	3101051010030	100pF	965	R141	T7E	3101052200010	22pF
193	C349	T6C	3101051010030	100pF	966	R142	B8E	3001053320000	3.3kΩ
194	C350	T6C	3101051010030	100pF	967	R143	B8E	3001057520000	7.5kΩ
195	C351	T6C	3101051010030	100pF	968	R144	B7G	3001051010040	100Ω
196	C352	T6C	3101051010030	100pF	969	R145	B7E	3001051010040	100Ω
197	C353	T6C	3101051010030	100pF	970	R146	T7E	3001051010040	100Ω
198	C354	T6C	3101051010030	100pF	971	R147	T7E	3001051010040	100Ω
199	C355	B6C	3101051010030	100pF	972	R148	T8G	3001051010040	100Ω
200	C356	T7C	3101051040010	0.1uF	973	R151	T7E	3001051530010	15kΩ
201	C357	T6C	3101051010030	100pF	974	R152	T7E	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
202	C358	T7D	3101051010030	100pF	975	R153	B8E	3221506601000	Ferrite bead
203	C359	B7D	3101051010030	100pF	976	R155	T7E	3001051530010	15kΩ
204	C360	B7D	3101051010030	100pF	977	R156	T7E	3001053300000	33Ω
205	C361	B7D	3101051010030	100pF	978	R157	B8F	3221506601000	Ferrite bead
206	C362	T7B	3101058200000	82pF	979	R158	B8F	3001056820000	6.8kΩ
207	C363	T7B	3101058200000	82pF	980	R159	B7F	3001057520000	7.5kΩ
208	C364	T7B	3101053900000	39pF	981	R160	B7G	3001051010040	100Ω
209	C365	T7B	3101058200000	82pF	982	R161	T7E	3001054720000	4.7kΩ
210	C366	T6D	3101051040010	0.1uF	983	R167	T8G	3001053300010	33Ω
211	C367	T7A	3101071060010	10uF	984	R171	T7F	3001060000000	0Ω
212	C368	T7A	3101054710010	470pF	985	R174	T8E	3001050000000	0Ω
213	C369	T3C	3101054710010	470pF	986	R175	T7F	3001051000000	10Ω
214	C375	T7B	3101052000020	20pF	987	R176	B7F	3001054720000	4.7kΩ
215	C376	T7C	3101052000020	20pF	988	R177	T7F	3001051030000	10kΩ
216	C378	B7B	3101051010030	100pF	989	R178	T8G	3001053300010	33Ω
217	C379	B6B	3101051040010	0.1uF	990	R179	B8F	3221506601000	Ferrite bead
218	C380	B7B	3101051040010	0.1uF	991	R180	T6F	3001051030000	10kΩ
219	C381	B6C	3101051030020	0.01uF	992	R181	T7F	3001051020000	1kΩ
220	C382	B6C	3101051040010	0.1uF	993	R183	T7F	3001051020000	1kΩ
221	C383	B6C	3101051040010	0.1uF	994	R186	B8G	3221506601000	Ferrite bead
222	C384	B6B	3101051030020	0.01uF	995	R187	T7F	3001061000000	10Ω
223	C385	B6B	3101051010030	100pF	996	R188	T8F	3001050000000	0Ω
224	C386	B6B	3101051040010	0.1uF	997	R189	T8G	3001054720000	4.7kΩ
225	C387	B7B	3101051040010	0.1uF	998	R190	T7G	3001053300000	33Ω
226	C388	B7C	3101051040010	0.1uF	999	R192	B7G	3001061010000	100Ω
227	C389	B7B	3101051040010	0.1uF	1000	R194	B8H	3001057520000	7.5kΩ
228	C390	B6C	3101051010030	100pF	1001	R195	T7G	3001052030000	20kΩ
229	C391	T7C	3101051040010	0.1uF	1002	R196	B7G	3001051010040	100Ω
230	C392	B6C	3101051040010	0.1uF	1003	R197	T7H	3001062200000	22Ω
231	C393	B6C	3101051040010	0.1uF	1004	R198	T7G	3001051530010	15kΩ
232	C394	B7B	3101051040010	0.1uF	1005	R199	T8G	3001051030000	10kΩ
233	C396	T6B	3101061050020	1uF	1006	R2	T8E	3001060000000	0Ω
234	C398	B6B	3101051040010	0.1uF	1007	R202	B5D	3001051030000	10kΩ
235	C399	B6B	3101051030020	0.01uF	1008	R231	B6C	3001053300010	33Ω
236	C4	B7G	3101051800010	18pF	1009	R232	B6D	3001053300010	33Ω
237	C400	B7B	3101051040010	0.1uF	1010	R234	B6C	3001051030000	10kΩ
238	C402	T6C	3101071060010	10uF	1011	R235	B6C	3001051030000	10kΩ
239	C407	T8C	3101051040010	0.1uF	1012	R236	B5D	3001051030000	10kΩ
240	C409	T7C	3101051010030	100pF	1013	R237	B5A	3001055630000	56kΩ
241	C410	T8C	3101051010030	100pF	1014	R238	B5B	3001053320000	3.3kΩ
242	C411	T8C	3101051010030	100pF	1015	R239	B6B	3001055620000	5.6kΩ
243	C412	T8C	3101051010030	100pF	1016	R240	T6D	3001053320000	3.3kΩ
244	C413	T7C	3101051010030	100pF	1017	R241	B5A	3001055630000	56kΩ
245	C414	T7C	3101051010030	100pF	1018	R242	B6C	3001050000000	0Ω
246	C415	T7C	3101051010030	100pF	1019	R244	B5C	3001052230010	22kΩ
247	C416	T7C	3101051010030	100pF	1020	R246	B5C	3001052230010	22kΩ
248	C417	T8C	3101051010030	100pF	1021	R247	B5B	3001051040010	100kΩ
249	C418	T8C	3101051010030	100pF	1022	R248	B5B	3001051040010	100kΩ
250	C419	B8D	3101051010030	100pF	1023	R250	B5B	3001051530000	15kΩ
251	C42	B8E	3001050000000	0Ω	1024	R251	B5B	3001051010000	100Ω
252	C420	B8D	3101051010030	100pF	1025	R252	B5C	3001051040010	100kΩ
253	C421	T2C	3101052210010	220pF	1026	R255	B5D	3001064710000	470Ω
254	C422	T2B	3101051040010	0.1uF	1027	R257	B5C	3001053030010	30kΩ
255	C423	T2C	3101052210010	220pF	1028	R258	B5C	3001051030000	10kΩ
256	C424	T2A	3101052210010	220pF	1029	R259	B5C	3001051030000	10kΩ
257	C425	T2A	3101052210010	220pF	1030	R260	B5C	3001051010000	100Ω
258	C426	T2B	3101051010030	100pF	1031	R261	B5C	3001051030000	10kΩ
259	C427	T2C	3101051010030	100pF	1032	R262	B5B	3001051040010	100kΩ
260	C428	T2C	3101051010030	100pF	1033	R263	B5B	3001053030010	30kΩ
261	C429	T2C	3101051010030	100pF	1034	R264	B5D	3001051020010	1kΩ
262	C430	T2A	3101051010030	100pF	1035	R265	B4B	3001051820000	1.8kΩ
263	C431	T2A	3101051010030	100pF	1036	R266	B4B	3001054730000	47kΩ
264	C432	T2B	3101052210010	220pF	1037	R267	B5D	3001051020010	1kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
265	C433	T2B	3101052210010	220pF	1038	R268	B5B	3001051040010	100kΩ
266	C434	T2B	3101052210010	220pF	1039	R269	B4B	3001051040010	100kΩ
267	C435	B8D	3101051010030	100pF	1040	R270	B4B	3001054730000	47kΩ
268	C436	T2C	3101052210010	220pF	1041	R271	B4B	3001051010000	100Ω
269	C437	T2B	3101052210010	220pF	1042	R272	B5B	3001054730000	47kΩ
270	C438	B7C	3101054740020	0.47uF	1043	R273	B4C	3001052430010	24kΩ
271	C439	B7C	3101054740020	0.47uF	1044	R274	B4C	3001051040010	100kΩ
272	C440	B8D	3101051010030	100pF	1045	R275	B4C	3001051040010	100kΩ
273	C441	T8C	3101051010030	100pF	1046	R276	B4C	3001051040010	100kΩ
274	C442	B8B	3101051010030	100pF	1047	R277	B4C	3001054730000	47kΩ
275	C443	B8B	3101051010030	100pF	1048	R278	B4C	3001051010000	100Ω
276	C444	B8A	3101051010030	100pF	1049	R279	B5D	3001053030010	30kΩ
277	C445	B8B	3101051010030	100pF	1050	R282	T6A	3001060000000	0Ω
278	C446	B8A	3101051010030	100pF	1051	R283	B5D	3001053030010	30kΩ
279	C447	B8B	3101051010030	100pF	1052	R284	B5D	3001051530000	15kΩ
280	C448	B8A	3101051010030	100pF	1053	R285	B5D	3001051530000	15kΩ
281	C449	B8A	3101051010030	100pF	1054	R286	B6B	3001054730000	47kΩ
282	C450	B8A	3101051010030	100pF	1055	R287	B6B	3001055620000	5.6kΩ
283	C451	B8A	3101051010030	100pF	1056	R288	B6A	3001054730000	47kΩ
284	C452	B8B	3101051010030	100pF	1057	R289	B6A	3001050000000	0Ω
285	C453	B8B	3101051010030	100pF	1058	R290	B5C	3001051020000	1kΩ
286	C454	B8B	3101051010030	100pF	1059	R291	B6B	3001051220000	1.2kΩ
287	C455	B8B	3101051010030	100pF	1060	R292	B6B	3001053300010	33Ω
288	C456	B8B	3101051010030	100pF	1061	R295	B5A	3001051020000	1kΩ
289	C46	B7G	3101052210010	220pF	1062	R296	B6B	3001051040000	100kΩ
290	C463	B7C	3101051010030	100pF	1063	R3	T7F	3001050000000	0Ω
291	C465	B8C	3101051010030	100pF	1064	R316	T5B	3001051030000	10kΩ
292	C466	B8C	3101051010030	100pF	1065	R319	T6B	3001053300010	33Ω
293	C467	B8C	3101051010030	100pF	1066	R320	B6B	3001053300010	33Ω
294	C468	B8C	3101051010030	100pF	1067	R322	T5B	3001051030000	10kΩ
295	C469	B8A	3101051010030	100pF	1068	R324	T7C	3001053300010	33Ω
296	C473	T8D	3101051040010	0.1uF	1069	R326	T6B	3001051030000	10kΩ
297	C474	T2C	3101054710010	470pF	1070	R327	B6C	3001053300010	33Ω
298	C476	T2C	3101054710010	470pF	1071	R337	T7C	3001051010000	100Ω
299	C477	T7C	3101051010030	100pF	1072	R338	T7B	3001051010000	100Ω
300	C478	T7C	3101051010030	100pF	1073	R339	T7C	3001051010000	100Ω
301	C479	T8C	3101051010030	100pF	1074	R346	B6C	3001051010000	100Ω
302	C480	T8C	3101051010030	100pF	1075	R347	T7D	3001053300010	33Ω
303	C483	B2B	3101051040010	0.1uF	1076	R348	T8B	3001050000000	0Ω
304	C484	T2C	3101062250000	2.2uF	1077	R349	T8B	3001053300010	33Ω
305	C485	B2C	3101051040010	0.1uF	1078	R350	T8B	3001053300010	33Ω
306	C49	B7G	3101060700020	7pF	1079	R351	T6B	3001051030000	10kΩ
307	C5	B7G	3101052000020	20pF	1080	R352	T2C	3001053300010	33Ω
308	C50	T8G	3101054710010	470pF	1081	R353	T6A	3001051030000	10kΩ
309	C500	B7C	3101053300000	33pF	1082	R354	T6C	3001053300010	33Ω
310	C501	B7C	3101053310020	330pF	1083	R355	B6C	3001053300010	33Ω
311	C502	B7C	3101052720000	2700pF	1084	R356	B6A	3001050000000	0Ω
312	C503	B7C	3101051520000	1500pF	1085	R357	T6C	3001053300010	33Ω
313	C506	B7C	3101051030020	0.01uF	1086	R358	B7B	3001051000000	10Ω
314	C507	B7C	3101051030020	0.01uF	1087	R360	B7B	3001051000000	10Ω
315	c508	B7C	3101071060010	10uF	1088	R361	B7B	3001051530000	15kΩ
316	C509	B7C	3101051040010	0.1uF	1089	R362	B7B	3001051530000	15kΩ
317	C510	B7C	3101051010030	100pF	1090	R363	T3A	3001050000000	0Ω
318	C511	B7B	3101071060010	10uF	1091	R364	T3A	3001050000000	0Ω
319	C512	B7B	3101051040010	0.1uF	1092	R365	T3C	3001051030000	10kΩ
320	C513	B7C	3101051020010	1000pF	1093	R366	T3C	3001051030000	10kΩ
321	C514	B7C	3101051040010	0.1uF	1094	R367	T6D	3001053300010	33Ω
322	C515	B7C	3101051040010	0.1uF	1095	R368	T3C	3001051010000	100Ω
323	C516	B7B	3101051010030	100pF	1096	R369	T6D	3001053300010	33Ω
324	C517	B7B	3101051010030	100pF	1097	R370	T3C	3001051010000	100Ω
325	C518	B7B	3101051010030	100pF	1098	R371	T6D	3001053300010	33Ω
326	C519	B5C	3101071060010	10uF	1099	R372	T6D	3001051030000	10kΩ
327	C52	B7G	3101052210010	220pF	1100	R373	T3C	3001053300010	33Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
328	C520	B6D	3101071060010	10uF	1101	R374	T7B	3001050000000	0Ω
329	C53	T8G	3101052290020	2.2pF	1102	R375	T6C	3001050000000	0Ω
330	C55	T7G	3101063690000	3.6pF	1103	R376	T6C	3001053300010	33Ω
331	C56	T7G	3101050400010	4pF	1104	R377	T6C	3001051030000	10kΩ
332	C58	T7G	3101051030020	0.01uF	1105	R378	T6C	3001051020000	1kΩ
333	C59	T7G	3101052200010	22pF	1106	R379	T7C	3001051030000	10kΩ
334	C6	B7F	3101052210010	220pF	1107	R380	T6C	3001053300010	33Ω
335	C60	T7G	3101051020010	1000pF	1108	R381	T6C	3001053300010	33Ω
336	C61	T7H	3101051000020	10pF	1109	R382	T6C	3001051020000	1kΩ
337	C6100	T4I	3101061050020	1uF	1110	R383	B7C	3001051020010	1kΩ
338	C6102	T6J	3101054710010	470pF	1111	R385	B7B	3001051030000	10kΩ
339	C6103	T4I	3101052210010	220pF	1112	R386	B6B	3001051000000	10Ω
340	C6104	T5I	3101051040010	0.1uF	1113	R387	T7B	3001053300010	33Ω
341	C6105	T5J	3101052210010	220pF	1114	R388	T7C	3001051000000	10Ω
342	C6106	T4J	3101052210010	220pF	1115	R390	T7B	3001051030000	10kΩ
343	C6107	T5J	3101052210010	220pF	1116	R391	T8D	3001051030000	10kΩ
344	C6109	T4J	3101050300000	3pF	1117	R392	T7D	3001051030000	10kΩ
345	C6110	T4J	3101051290040	1.2pF	1118	R393	T7D	3001051030000	10kΩ
346	C6111	T5J	3101050500000	5pF	1119	R394	T7D	3001051030000	10kΩ
347	C6112	T5J	3101050500000	5pF	1120	R395	T7D	3001054720000	4.7kΩ
348	C6113	T5J	3101051040010	0.1uF	1121	R396	T7D	3001054720000	4.7kΩ
349	C6114	T5J	3101050600010	6pF	1122	R398	T3A	3001054720000	4.7kΩ
350	C6115	T6J	3001050000000	0Ω	1123	R399	T6A	3001050000000	0Ω
351	C6116	T6J	3199050758000	0.75pF	1124	R4	T8E	3001061010000	100Ω
352	C6117	T6J	3101051000020	10pF	1125	R400	T7D	3001051030000	10kΩ
353	C6118	T4J	3101051510000	150pF	1126	R401	B7B	3001051520000	1.5kΩ
354	C6119	T4J	3101050590020	0.5pF	1127	R402	T6D	3001053300010	33Ω
355	C6120	T4J	3101051890050	1.8pF	1128	R403	T6C	3001051010000	100Ω
356	C6121	T4J	3101051890050	1.8pF	1129	R404	T6C	3001051010000	100Ω
357	C6122	T5J	3101050590020	0.5pF	1130	R405	T2A	3001061030000	10kΩ
358	C6123	T5J	3001050000000	0Ω	1131	R406	T6C	3001051010000	100Ω
359	C6124	T6J	3101050100030	1pF	1132	R407	T8C	3001060000000	0Ω
360	C6126	T6J	3101051890050	1.8pF	1133	R408	T7C	3001053300010	33Ω
361	C6127	T6J	3101051890050	1.8pF	1134	R409	T8C	3001051010000	100Ω
362	C6128	T6J	3101052210010	220pF	1135	R410	T6C	3001051010000	100Ω
363	C6129	T5J	3101051500020	15pF	1136	R411	T6C	3001051010000	100Ω
364	C6130	T5J	3101051500020	15pF	1137	R412	T8C	3001053300010	33Ω
365	C6133	T5J	3101050300000	3pF	1138	R413	T6C	3001053300010	33Ω
366	C6134	T4I	3101053300000	33pF	1139	R414	T7A	3001051000000	10Ω
367	C6135	T4I	3101053300000	33pF	1140	R415	T7C	3001053300010	33Ω
368	C6136	T4I	3101053300000	33pF	1141	R416	T8C	3001051010000	100Ω
369	C6137	T4I	3101053300000	33pF	1142	R417	T2A	3001062030000	20kΩ
370	c6138	T4I	3101055600000	56pF	1143	R420	T8C	3001053300010	33Ω
371	C6139	T6I	3101053300000	33pF	1144	R421	T6C	3001051010000	100Ω
372	C6140	T6I	3101053300000	33pF	1145	R422	T7B	3001051030000	10kΩ
373	C6141	T6I	3101053300000	33pF	1146	R423	T7C	3001053300010	33Ω
374	C6142	T6I	3101053300000	33pF	1147	R424	T7C	3001053300010	33Ω
375	c6143	T6I	3101055600000	56pF	1148	R425	T7C	3001053300010	33Ω
376	C6144	B4H	3101052210010	220pF	1149	R426	T7A	3001050000000	0Ω
377	C6145	B4I	3101061050020	1uF	1150	R427	T2B	3001051030000	10kΩ
378	C6146	T4I	3101054710010	470pF	1151	R428	T2B	3001054720000	4.7kΩ
379	C6147	T6I	3101051030020	0.01uF	1152	R429	T6C	3001051030000	10kΩ
380	C6148	B7H	3101054710010	470pF	1153	R430	T8C	3001053300010	33Ω
381	C6149	B7H	3101061050020	1uF	1154	R431	T7C	3001053300010	33Ω
382	C6151	B7H	3101054710010	470pF	1155	R432	T7C	3001053300010	33Ω
383	C6152	B8I	3101050100030	1pF	1156	R433	T7C	3001053300010	33Ω
384	C6153	B8I	3101050200010	2pF	1157	R434	T8D	3001051010000	100Ω
385	C6154	B8I	3101050100030	1pF	1158	R435	T2C	3001054720000	4.7kΩ
386	C6157	B8I	3101061010010	100pF	1159	R436	T2B	3001054720000	4.7kΩ
387	C6158	B7H	3001060000000	0Ω	1160	R437	T2A	3001054720000	4.7kΩ
388	C6159	B8H	3101052210010	220pF	1161	R438	B2A	3001051030000	10kΩ
389	C6160	B8H	3101052200010	22pF	1162	R439	B2A	3001051010000	100Ω
390	C6161	B8H	3101051200020	12pF	1163	R440	T6B	3001050000000	0Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
391	C6162	B8I	3101051200020	12pF	1164	R441	B6A	3001051030000	10kΩ
392	C6163	B8I	3101053390010	3.3pF	1165	R442	T6A	3001051030000	10kΩ
393	C6164	B8I	3101051200020	12pF	1166	R443	T2A	3001051030000	10kΩ
394	C6166	T7I	3101051010030	100pF	1167	R445	T2A	3001051010000	100Ω
395	C6168	T7I	3101051040010	0.1uF	1168	R447	T2A	3001051030000	10kΩ
396	C6169	T7I	3101051040010	0.1uF	1169	R448	T2B	3001054720000	4.7kΩ
397	C6170	T7I	3101050900000	9pF	1170	R449	B2A	3001064730000	47kΩ
398	C6171	T7I	3101051040010	0.1uF	1171	R450	B2A	3001071020000	1kΩ
399	C6172	B7I	3001050000000	0Ω	1172	R451	B2B	3001051030000	10kΩ
400	C6173	T7H	3101051040010	0.1uF	1173	R452	B2B	3001051030000	10kΩ
401	C6175	T8H	3101051040010	0.1uF	1174	R453	T5B	3001051030000	10kΩ
402	C6176	T8I	3001060000000	0Ω	1175	R454	B2A	3001050000000	0Ω
403	C6177	T8I	3101051500020	15pF	1176	R455	T2A	3001058230000	82kΩ
404	C6178	T7I	3101051030020	0.01uF	1177	R456	T8C	3001050000000	0Ω
405	C6179	T7H	3101051040010	0.1uF	1178	R457	T8C	3001050000000	0Ω
406	C6180	T7H	3101051040010	0.1uF	1179	R458	T8C	3001051010000	100Ω
407	C6185	T6J	3101061050020	1uF	1180	R459	T8C	3001051010000	100Ω
408	C6190	T7I	3101061050020	1uF	1181	R460	T7D	3001051020010	1kΩ
409	C6193	B7H	3101061040010	0.1uF	1182	R461	B2C	3001051030000	10kΩ
410	C6194	T4J	3212106689000	6.8nH	1183	R462	B2B	3001051030000	10kΩ
411	C62	B8G	3001050000000	0Ω	1184	R463	B2B	3001051030000	10kΩ
412	C64	T7F	3110071040000	0.1uF	1185	R464	B2B	3001051030000	10kΩ
413	C66	T6F	3110071040000	0.1uF	1186	R465	B2C	3001051030000	10kΩ
414	C67	T7F	3110071040000	0.1uF	1187	R466	B2C	3001051030000	10kΩ
415	C68	T6F	3110071040000	0.1uF	1188	R467	B2C	3001053300010	33Ω
416	C69	T7F	3110071040000	0.1uF	1189	R468	T2B	3001054720000	4.7kΩ
417	C7	B7F	3101051040010	0.1uF	1190	R469	T2C	3001054720000	4.7kΩ
418	C70	T6F	3110071040000	0.1uF	1191	R470	T2B	3001054720000	4.7kΩ
419	C702	T6H	3101051030020	0.01uF	1192	R471	T2B	3001054720000	4.7kΩ
420	C703	T6H	3101060300010	3pF	1193	R472	T2B	3001054720000	4.7kΩ
421	C704	T6H	3101052210010	220pF	1194	R473	B2C	3001053300010	33Ω
422	C705	T6H	3101051040010	0.1uF	1195	R474	B2C	3001053300010	33Ω
423	C706	T6H	3101054710010	470pF	1196	R475	T2A	3001051030000	10kΩ
424	C707	T6H	3101051040010	0.1uF	1197	R476	T8C	3001054720000	4.7kΩ
425	C708	T6H	3101051040010	0.1uF	1198	R479	T6C	3001053300010	33Ω
426	C71	B7F	3101071050240	1uF	1199	R481	B5B	3001051030000	10kΩ
427	C710	T6H	3101051020010	1000pF	1200	R482	B6B	3001051030000	10kΩ
428	C712	T6H	3101051040010	0.1uF	1201	R483	B6B	3001051030000	10kΩ
429	C713	T6H	3101053920000	3900pF	1202	R484	T8C	3001054720000	4.7kΩ
430	C714	T6G	3101051000020	10pF	1203	R485	B7C	3001053300010	33Ω
431	C715	T6H	3101064740000	0.47uF	1204	R486	B7C	3001053300010	33Ω
432	C716	T6I	3101061810060	180pF	1205	R487	T7A	3001053300010	33Ω
433	C717	B6H	3101054710010	470pF	1206	R488	T7B	3001054720000	4.7kΩ
434	C718	B6H	3101051050160	1uF	1207	R489	T7A	3001053300010	33Ω
435	C719	T5G	3101051050000	1uF	1208	R490	T7A	3001053300010	33Ω
436	C72	T7F	3110071040000	0.1uF	1209	R491	B7C	3001053300010	33Ω
437	C720	T6H	3101051040010	0.1uF	1210	R492	T7A	3001053300010	33Ω
438	C721	T6H	3101051010030	100pF	1211	R493	T2A	3001061040010	100kΩ
439	C722	T6H	3101051010030	100pF	1212	R495	B7C	3001053300010	33Ω
440	C723	B6H	3101051500020	15pF	1213	R496	B2C	3001054720000	4.7kΩ
441	C724	B6H	3101051800010	18pF	1214	R497	B2B	3001051020000	1kΩ
442	C725	B6H	3101051030020	0.01uF	1215	R498	B7C	3001053300010	33Ω
443	C726	B6H	3101074750000	4.7uF	1216	R499	B7B	3001054720000	4.7kΩ
444	C727	B6H	3101054710010	470pF	1217	R5	T7E	3001050000000	0Ω
445	C728	T5H	3101051020010	1000pF	1218	R500	B7C	3001051040000	100kΩ
446	C729	T5H	3101051040010	0.1uF	1219	R501	B7C	3001051030010	10kΩ
447	C730	B6H	3101052200010	22pF	1220	R502	B7C	3001051020000	1kΩ
448	C731	B6H	3101050600010	6pF	1221	R503	B7C	3001051020000	1kΩ
449	C732	B6H	3101052200010	22pF	1222	R504	B7C	3001051020000	1kΩ
450	C733	T5H	3101051040010	0.1uF	1223	R505	B7C	3001050000000	0Ω
451	C734	B6H	3101053000010	30pF	1224	R506	B7C	3001051030000	10kΩ
452	C735	T5H	3101051040010	0.1uF	1225	R507	B7C	3001050000000	0Ω
453	C736	T5H	3101051030020	0.01uF	1226	R508	T2C	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
454	C737	T5H	3101051040010	0.1uF	1227	R509	B7B	3001051030000	10kΩ
455	C738	T5H	3101051010030	100pF	1228	R510	B7B	3001051030000	10kΩ
456	C739	T5H	3101051010030	100pF	1229	R511	B7B	3001054720000	4.7kΩ
457	C74	T7F	3110071040000	0.1uF	1230	R512	B7C	3001051030000	10kΩ
458	C740	T5H	3101051040010	0.1uF	1231	R513	B7C	3001051040000	100kΩ
459	C741	T5H	3101051040010	0.1uF	1232	R514	B7C	3001051040000	100kΩ
460	C742	T6H	3101061050020	1uF	1233	R515	T7A	3001053300010	33Ω
461	C744	B5H	3101051040010	0.1uF	1234	R516	T7A	3001053300010	33Ω
462	C745	B5H	3101053300000	33pF	1235	R517	T7A	3001053300010	33Ω
463	C746	T4H	3101054710010	470pF	1236	R518	T7A	3001053300010	33Ω
464	C748	B5H	3101061040010	0.1uF	1237	R519	T7B	3001053300010	33Ω
465	C749	T5G	3101053900000	39pF	1238	R520	T7B	3001053300010	33Ω
466	C75	T7F	3101051020010	1000pF	1239	R521	T7B	3001053300010	33Ω
467	C750	B5H	3101071050240	1uF	1240	R522	T7A	3001053300010	33Ω
468	C751	T6G	3101051000020	10pF	1241	R523	B7B	3001053300010	33Ω
469	C752	T4I	3101074750000	4.7uF	1242	R524	B7B	3001053300010	33Ω
470	C754	T4I	3101061050020	1uF	1243	R525	B8B	3001053300010	33Ω
471	C755	T6I	3101074750000	4.7uF	1244	R526	B7B	3001053300010	33Ω
472	C756	T6I	3101051040010	0.1uF	1245	R527	B7B	3001053300010	33Ω
473	C76	T8F	3101051010030	100pF	1246	R528	B7C	3001056830000	68kΩ
474	C763	T5H	3101051010030	100pF	1247	R529	B7C	3001053330000	33kΩ
475	C764	T5H	3101051010030	100pF	1248	R530	T8D	3001051030000	10kΩ
476	C765	T5H	3101051010030	100pF	1249	R531	T8D	3001051030000	10kΩ
477	C766	T5H	3101051010030	100pF	1250	R532	T8C	3001051030000	10kΩ
478	C767	T5H	3101051010030	100pF	1251	R533	B7B	3001053300010	33Ω
479	C769	T6G	3101051010030	100pF	1252	R534	B8C	3001051030000	10kΩ
480	C77	T8F	3101051010030	100pF	1253	R535	B8C	3001051030000	10kΩ
481	C78	T6F	3110071040000	0.1uF	1254	R536	T5B	3001050000000	0Ω
482	C79	T7E	3101051020010	1000pF	1255	R538	T7C	3001051030000	10kΩ
483	C8	T7E	3101054710010	470pF	1256	R539	T7C	3001051030000	10kΩ
484	C80	T8F	3101051030020	0.01uF	1257	R540	T8D	3001051030000	10kΩ
485	C801	B1F	3101081020010	1000pF	1258	R541	T8C	3001051030000	10kΩ
486	C802	B1F	3101063320000	3300pF	1259	R543	T7C	3001051030000	10kΩ
487	C803	B1F	3101063300000	33pF	1260	R544	B5B	3001050000000	0Ω
488	C804	B1F	3101092260010	22uF	1261	R545	B7D	3001053300010	33Ω
489	C805	T4G	3101070800020	8pF	1262	R546	B2C	3001061010000	100Ω
490	C806	T4F	3101070800020	8pF	1263	R552	B7D	3001053300010	33Ω
491	C807	T5E	3101081060010	10uF	1264	R553	B7D	3001053300010	33Ω
492	C808	B5E	3101062210000	220pF	1265	R554	T8D	3001051020010	1kΩ
493	C809	B5E	3101062210000	220pF	1266	R555	T8D	3001051030000	10kΩ
494	C810	T5G	3101072700010	27pF	1267	R556	T2C	3001051010000	100Ω
495	C811	B6E	3101064710000	470pF	1268	R557	T2B	3001051010000	100Ω
496	C812	T3G	3101080600010	6pF	1269	R558	B2C	3001053330010	33kΩ
497	C814	B5E	3101061800000	18pF	1270	R559	B2B	3001053330010	33kΩ
498	C815	T5F	3001070000000	0Ω	1271	R560	B2B	3001053330010	33kΩ
499	C816	T3H	3101371590000	1.5pF	1272	R561	B2C	3001053330010	33kΩ
500	C817	T2H	3101064710000	470pF	1273	R562	B2C	3001053330010	33kΩ
501	C818	B6E	3101061500010	15pF	1274	R563	T2B	3001051030000	10kΩ
502	C819	T3F	3101080600010	6pF	1275	R564	B7C	3001050000000	0Ω
503	C82	T7F	3101051020010	1000pF	1276	R565	B7C	3001050000000	0Ω
504	C820	T3F	3101080600010	6pF	1277	R566	B7C	3001050000000	0Ω
505	C822	B6E	3101062210000	220pF	1278	R567	B7C	3001050000000	0Ω
506	C823	T2F	3101371200000	12pF	1279	R569	T2C	3001051030000	10kΩ
507	C824	T1F	3101080100010	1pF	1280	R570	T2C	3001064720000	4.7kΩ
508	C825	B2F	3101074700050	47P	1281	R571	T6C	3001051030000	10kΩ
509	C826	T5E	3210306220000	22nH	1282	R573	T2C	3001054720000	4.7kΩ
510	C827	T3I	3101374710000	470pF	1283	R574	T2C	3001064720000	4.7kΩ
511	C829	B4E	3101061040010	0.1uF	1284	R575	T2B	3001053330010	33kΩ
512	C83	T8F	3101051040010	0.1uF	1285	R576	T2C	3001053330010	33kΩ
513	C830	T3H	3101080300010	3pF	1286	R577	T2B	3001061010000	100Ω
514	C831	T3G	3101376890000	6.8pF	1287	R578	B2B	3001061010000	100Ω
515	C832	T2F	3101080200010	2pF	1288	R579	B2B	3001061010000	100Ω
516	C833	T3F	3101376890000	6.8pF	1289	R580	B2C	3001061010000	100Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
517	C8330	T3F	3101372000000	20pF	1290	R581	B2C	3001061010000	100Ω
518	C835	T1H	3101080200010	2pF	1291	R6	T7F	3001050000000	0Ω
519	C836	T2H	3101080100010	1pF	1292	R6004	T5B	3001063320000	3.3kΩ
520	C837	T2H	3101080300010	3pF	1293	R6100	T4I	3001055110000	510Ω
521	C838	T3I	3101080300010	3pF	1294	R6101	T6I	3001056810000	680Ω
522	C839	T5F	3001070000000	0Ω	1295	R6102	T5J	3001071000000	10Ω
523	C84	T7F	3110071040000	0.1uF	1296	R6103	T5I	3001052730010	27kΩ
524	C840	T5F	3101072700010	27pF	1297	R6104	T5J	3001052720000	2.7kΩ
525	C841	T3F	3101080600010	6pF	1298	R6105	T5J	3001055620000	5.6kΩ
526	C842	T3G	3101372000000	20pF	1299	R6106	T4J	3001066810000	680Ω
527	C843	T5E	3001060000000	0Ω	1300	R6107	T5J	3001053320000	3.3kΩ
528	C845	B4E	3101062210000	220pF	1301	R6110	T5J	3001052220000	2.2kΩ
529	C846	T4F	3101073000050	30pF	1302	R6111	T4I	3001051040000	100kΩ
530	C847	T2I	3101061510050	150pF	1303	R6112	T6I	3001051040000	100kΩ
531	C848	T3J	3101061510050	150pF	1304	R6113	B4H	3001052740000	270kΩ
532	C85	T8E	3101051040010	0.1uF	1305	R6114	B4H	3001053300010	33Ω
533	C850	B2I	3101084710010	470pF	1306	R6115	B4H	3001051040000	100kΩ
534	C851	T2I	3101081590000	1.5pF	1307	R6116	B4H	3001060000000	0Ω
535	C852	T2H	3101066800000	68pF	1308	R6117	B7H	3001078200000	82Ω
536	C853	T5F	3101062210000	220pF	1309	R6118	B7H	3001053320000	3.3kΩ
537	C854	T5F	3101061040010	0.1uF	1310	R6119	B8H	3001051220000	1.2kΩ
538	C855	T4G	3101073000050	30pF	1311	R6120	T7I	3001055100010	51Ω
539	C856	T1F	3101370200000	2pF	1312	R6121	B7H	3001051800000	18Ω
540	C857	T3J	3101062200010	22pF	1313	R6122	B7H	3001051220000	1.2kΩ
541	C86	T7F	3101051040010	0.1uF	1314	R6123	T4J	3001050000000	0Ω
542	C861	T2I	3101061810060	180pF	1315	R6124	B7I	3001052710010	270Ω
543	C863	T6E	3101064720000	4700pF	1316	R6125	B7I	3001052710010	270Ω
544	C864	T6E	3101062400010	24pF	1317	R6126	B7H	3001078200000	82Ω
545	C865	T6F	3101062400010	24pF	1318	R6127	T4I	3001051030000	10kΩ
546	C866	T6F	3101068200030	82pF	1319	R6129	B7I	3001063310010	330Ω
547	C868	B4H	3101061040010	0.1uF	1320	R6130	T7I	3001055120030	5.1kΩ
548	C87	T7E	3101051040010	0.1uF	1321	R6131	T7I	3001051220000	1.2kΩ
549	C870	T2G	3101992490000	2.4pF	1322	R6132	T7I	3001055100010	51Ω
550	C875	B4H	3101051510000	150pF	1323	R6133	T7H	3001053310010	330Ω
551	C876	T1G	3101080590000	0.5pF	1324	R6134	T7H	3001053030000	30kΩ
552	C877	T6E	3101063920000	3900pF	1325	R6135	T7H	3001054720000	4.7kΩ
553	C878	T6F	3101062210000	220pF	1326	R6136	T7H	3001052030000	20kΩ
554	C879	T1G	3101080100010	1pF	1327	R6137	T7I	3001053030000	30kΩ
555	C88	T7F	3110071040000	0.1uF	1328	R6138	B8I	3001060000000	0Ω
556	C880	T6E	3101064730000	0.047uF	1329	R6139	T8H	3001055630000	56kΩ
557	C883	B4I	3101052210010	220pF	1330	R6140	T4I	3001060000000	0Ω
558	C885	B2F	3101082700010	27pF	1331	R701	T5I	3001055100010	51Ω
559	C886	B5F	3101064730000	0.047uF	1332	R703	T6G	3001052220010	2.2kΩ
560	C887	B5F	3101062210000	220pF	1333	R704	T6H	3001055610010	560Ω
561	C888	B2F	3101063300000	33pF	1334	R705	T6H	3001051030000	10kΩ
562	C889	B2F	3101062200010	22pF	1335	R707	B6H	3001051810010	180Ω
563	C89	T7F	3101051040010	0.1uF	1336	R708	B6H	3001054720000	4.7kΩ
564	C890	B3I	3101052210010	220pF	1337	R709	B6H	3001061030010	10kΩ
565	C891	T2I	3101051210000	120pF	1338	R710	B6H	3001068220000	8.2kΩ
566	C892	B5F	3101062210000	220pF	1339	R711	T5G	3001053300010	33Ω
567	C893	T1H	3101371210000	120pF	1340	R712	B6H	3001052710010	270Ω
568	C894	B4H	3101051830020	0.018uF	1341	R713	T5H	3001051040000	100kΩ
569	C895	B4I	3101052210010	220pF	1342	R714	B5H	3001051820000	1.8kΩ
570	C896	B3G	3101052210010	220pF	1343	R715	T5G	3001053300010	33Ω
571	C897	B3G	3101052210010	220pF	1344	R716	B5H	3001055620000	5.6kΩ
572	C898	B5C	3101052210010	220pF	1345	R717	T5G	3001053300010	33Ω
573	C899	T3J	3101051210000	120pF	1346	R718	B5H	3001055110000	510Ω
574	C9	T8G	3101051590000	1.5pF	1347	R719	T5H	3001053300010	33Ω
575	C90	T7F	3101051010030	100pF	1348	R720	T5H	3001053300010	33Ω
576	C900	T5C	3101061050020	1uF	1349	R721	T5H	3001053300010	33Ω
577	C901	T5C	3101061050020	1uF	1350	R724	T5I	3001060000000	0Ω
578	C902	T2E	3101062200010	22pF	1351	R725	T5G	3001053300010	33Ω
579	C905	T2A	3101061050020	1uF	1352	R727	T4H	3001064730000	47kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
580	C906	T2A	3101061050020	1uF	1353	R728	T4H	3001064730000	47kΩ
581	C907	T4B	3101051040010	0.1uF	1354	R802	B5E	3001061230000	12kΩ
582	C908	T5B	3101061050020	1uF	1355	R803	B5E	3001062210000	220Ω
583	C909	B2F	3101063310010	330pF	1356	R804	T4G	3001080000000	0Ω
584	C91	T6F	3110071040000	0.1uF	1357	R808	B5E	3001061000000	10Ω
585	C910	B4I	3101051020010	1000pF	1358	R809	B6E	3001068200000	82Ω
586	C911	T3A	3101051040010	0.1uF	1359	R810	B6E	3001061010000	100Ω
587	C912	T5C	3101072250100	2.2uF	1360	R811	B5E	3001061830010	18kΩ
588	C913	B2F	3101063300000	33pF	1361	R812	B4G	3001084790000	4.7Ω
589	C914	T4D	3101092260010	22uF	1362	R813	T4F	3001080000000	0Ω
590	C915	T4C	3101082260020	22uF	1363	R814	B6E	3001061010000	100Ω
591	C916	T2E	3101063320000	3300pF	1364	R815	T1I	3001082730000	27kΩ
592	C917	T5D	3101071060010	10uF	1365	R816	T2J	3001072210000	220Ω
593	C918	T5D	3101052200010	22pF	1366	R817	T2J	3001072210000	220Ω
594	C919	T5C	3101072260000	22uF	1367	R819	T3I	3001078200000	82Ω
595	C920	T4C	3101061030010	0.01uF	1368	R821	B2I	3001113300000	33Ω
596	C921	T5C	3101051040010	0.1uF	1369	R822	T3J	3001060000000	0Ω
597	C922	T5C	3101055600000	56pF	1370	R823	T2J	3001061010000	100Ω
598	C923	B4D	3101061050020	1uF	1371	R824	T5E	3101064700000	47pF
599	C924	B4D	3101061050020	1uF	1372	R825	T3I	3001113300000	33Ω
600	C925	B4D	3101061050020	1uF	1373	R826	T6F	3001065690000	5.6Ω
601	C926	B7D	3101071060010	10uF	1374	R827	T6E	3001062710000	270Ω
602	C927	T4D	3101061040010	0.1uF	1375	R828	T6F	3001065690000	5.6Ω
603	C928	T5H	3101081060010	10uF	1376	R829	T6F	3001063900000	39Ω
604	C93	T7F	3101051010030	100pF	1377	R830	B5E	3001074700000	47Ω
605	C930	B1F	3101061830000	0.018uF	1378	R831	B4H	3001051020000	1kΩ
606	C931	T1E	3101062700010	27pF	1379	R835	T6E	3001068200000	82Ω
607	C932	T5C	3101062250000	2.2uF	1380	R837	B4I	3001050000000	0Ω
608	C933	B2A	3101092260010	22uF	1381	R838	B4I	3001053330000	33kΩ
609	C934	B4D	3101062250000	2.2uF	1382	R839	B4H	3001053320000	3.3kΩ
610	C935	B5D	3101061040010	0.1uF	1383	R840	T3I	3101060800010	8pF
611	C936	T5D	3101051010030	100pF	1384	R841	B4H	3001053330000	33kΩ
612	C938	T4D	3101092260010	22uF	1385	R842	B4I	3001051230000	12kΩ
613	C94	T7F	3110071040000	0.1uF	1386	R843	T6F	3001061530010	15kΩ
614	C940	B1F	3101066800000	68pF	1387	R844	T6F	3001061030000	10kΩ
615	C942	T4B	3101053310020	330pF	1388	R845	T6E	3001062030000	20kΩ
616	C943	B1F	3101062700010	27pF	1389	R846	T6E	3001061030000	10kΩ
617	C944	B2B	3101051020010	1000pF	1390	R847	B4H	3001054730000	47kΩ
618	C945	B2A	3101054710010	470pF	1391	R849	B4I	3001052220010	2.2kΩ
619	C946	T5D	3101061050020	1uF	1392	R853	T2I	3001064710000	470Ω
620	C947	T5B	3101051040010	0.1uF	1393	R854	B4I	3001055630000	56kΩ
621	C948	T4B	3101051040010	0.1uF	1394	R855	B4F	3001083300000	33Ω
622	C949	B2G	3101058200000	82pF	1395	R856	B4F	3001083300000	33Ω
623	C95	T7F	3101051030020	0.01uF	1396	R857	B4I	3001050000000	0Ω
624	C950	T2D	3101051040010	0.1uF	1397	R858	B5F	3001069120000	9.1kΩ
625	C951	T4C	3110992270000	220uF	1398	R859	B5F	3001061020010	1kΩ
626	C952	T3C	3101061030010	0.01uF	1399	R860	B4F	3001084790000	4.7Ω
627	C953	B3G	3001051830000	18kΩ	1400	R862	B6E	3001065600000	56Ω
628	C955	T3D	3101051040010	0.1uF	1401	R863	B2I	3001050000000	0Ω
629	C956	T3D	3101081060010	10uF	1402	R864	B3G	3001054740010	470kΩ
630	C957	T3D	3101081060010	10uF	1403	R865	B4H	3001053930000	39kΩ
631	C958	T3D	3101051040010	0.1uF	1404	R866	B4I	3001052220010	2.2kΩ
632	C959	B2G	3101061040010	0.1uF	1405	R867	B4G	3001058220000	8.2kΩ
633	C96	T7F	3101051020010	1000pF	1406	R869	B4H	3001051020000	1kΩ
634	C961	B3A	3101061040010	0.1uF	1407	R870	B4H	3001051230000	12kΩ
635	C962	B6D	3101051050000	1uF	1408	R872	B4H	3001051840000	180kΩ
636	C963	B7D	3101061040010	0.1uF	1409	R874	B4I	3001051020000	1kΩ
637	C965	B7D	3101062250000	2.2uF	1410	R875	B4I	3001053330000	33kΩ
638	C966	T5B	3101061050020	1uF	1411	R876	B3G	3001055630000	56kΩ
639	C968	B3B	3101051040010	0.1uF	1412	R877	B5E	3001054730000	47kΩ
640	C969	B3B	3101051040010	0.1uF	1413	R880	B5E	3001074720010	4.7kΩ
641	C97	T8F	3101051030020	0.01uF	1414	R881	B5E	3001074720010	4.7kΩ
642	C978	T7D	3101051040010	0.1uF	1415	R882	B4I	3001052240000	220kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
643	C979	T6D	3101051040010	0.1uF	1416	R883	B3G	3001055630000	56kΩ
644	C98	T8F	3101051040010	0.1uF	1417	R884	B3G	3001051030000	10kΩ
645	C980	T2D	3101081060010	10uF	1418	R885	B3G	3001051030000	10kΩ
646	C981	T4D	3101081060010	10uF	1419	R886	B3G	3001052240000	220kΩ
647	C982	T7C	3101051040010	0.1uF	1420	R887	B4I	3001058210000	820Ω
648	C983	T7D	3101051050000	1uF	1421	R889	B5C	3001050000000	0Ω
649	C984	T7D	3101051020010	1000pF	1422	R890	B4H	3001053320000	3.3kΩ
650	C99	T8F	3101052710000	270pF	1423	R891	B3G	3001053320000	3.3kΩ
651	C997	T7C	3101062240030	0.22uF	1424	R892	B3I	3001058230000	82kΩ
652	D100	T7F	3303030800020	Switching diode	1425	R894	B4I	3001050000000	0Ω
653	D101	B7E	3304010100220	Varactor	1426	R895	B4H	3001055130010	51kΩ
654	D102	B7E	3304010100060	Varactor	1427	R897	B2G	3001054740010	470kΩ
655	D103	B3A	3303240000000	Switching diode	1428	R898	B2G	3001054740010	470kΩ
656	D105	B7F	3304010100220	Varactor	1429	R899	B2G	3001054740010	470kΩ
657	D106	B7F	3304010100220	Varactor	1430	R902	B3G	3001050000000	0Ω
658	D107	B7G	3304010100220	Varactor	1431	R904	B5C	3001050000000	0Ω
659	D108	B6G	3304010100220	Varactor	1432	R905	B5C	3001053330000	33kΩ
660	D109	B7G	3304010100220	Varactor	1433	R906	T4H	3001064730000	47kΩ
661	D110	B6G	3304010100220	Varactor	1434	R908	T4H	3001054720000	4.7kΩ
662	D111	B7E	3304010100220	Varactor	1435	R910	T6D	3001054720000	4.7kΩ
663	D112	B7E	3304010100060	Varactor	1436	R911	T5B	3001061030000	10kΩ
664	D113	B7F	3304010100060	Varactor	1437	R913	T6D	3001054720000	4.7kΩ
665	D116	B7E	3304010100060	Varactor	1438	R917	T5D	3001053340010	330kΩ
666	D117	B7E	3304010100220	Varactor	1439	R919	T5D	3001051540000	150kΩ
667	D121	B7G	3304010100220	Varactor	1440	R924	B4D	3001061020010	1kΩ
668	D122	B7G	3304010100220	Varactor	1441	R925	T5D	3001064720000	4.7kΩ
669	D125	B7G	3304010100220	Varactor	1442	R929	B2A	3001051010000	100Ω
670	D126	B7G	3304010100220	Varactor	1443	R930	B3A	3001051030000	10kΩ
671	D127	T7E	3303030100010	Switching diode	1444	R931	B3A	3001054730000	47kΩ
672	D128	B4I	3303030100010	Switching diode	1445	R932	B3A	3001052030000	20kΩ
673	D129	B5C	3303030800020	Switching diode	1446	R934	B3A	3001055130010	51kΩ
674	D230	B4C	3310240000000	ESD protection diode	1447	R937	B3B	3001054720000	4.7kΩ
675	D231	B4C	3310240000000	ESD protection diode	1448	R938	B3B	3001051030000	10kΩ
676	D232	B7D	3310240000000	ESD protection diode	1449	R940	B3B	3001052230010	22kΩ
677	D233	T2B	3310240000000	ESD protection diode	1450	R941	B3B	3001051020010	1kΩ
678	D234	T5C	3310240200000	ESD protection diode	1451	R942	B3B	3001054720000	4.7kΩ
679	D236	T6C	3310240200000	ESD protection diode	1452	R943	B2A	3001064730000	47kΩ
680	D237	T4B	3310990000090	ESD protection diode	1453	R944	B3B	3001052230010	22kΩ
681	D238	T2C	3310240000000	ESD protection diode	1454	R945	B3B	3001051030000	10kΩ
682	D239	T5B	3310240200000	ESD protection diode	1455	R946	B3A	3001071020000	1kΩ
683	D240	T2A	3310240000000	ESD protection diode	1456	R947	B3B	3001051020010	1kΩ
684	D402	T2C	3310240000000	ESD protection diode	1457	R948	B2A	3001051010000	100Ω
685	D403	T2A	3310240000000	ESD protection diode	1458	R949	B2A	3001054730000	47kΩ
686	D404	T2B	3310240000000	ESD protection diode	1459	R950	T3C	3001051030000	10kΩ
687	D405	T2B	3310240000000	ESD protection diode	1460	R951	B3A	3001053330000	33kΩ
688	D406	T2B	3310240000000	ESD protection diode	1461	R952	B3A	3001053330000	33kΩ
689	D407	T8B	3399040600010	ESD protection diode	1462	R953	B3D	3001061000000	10Ω
690	D408	B8C	3399040600010	ESD protection	1463	R954	B6D	3001061020010	1kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
				diode					
691	D409	T2C	3310240000040	ESD protection diode	1464	R955	B2A	3001052030000	20kΩ
692	D410	B2B	3310240000040	ESD protection diode	1465	R956	B2A	3001051840000	180kΩ
693	D450	T2C	3699037000010	USB protection IC	1466	R957	B2A	3001051020010	1kΩ
694	D6100	T4J	3399030000010	PIN diode	1467	R958	B3D	3001066810000	680Ω
695	D6101	T4J	3304010101100	Varactor	1468	R959	B2A	3001056830000	68kΩ
696	D6102	T4J	3304010101100	Varactor	1469	R961	B3D	3001083310010	330Ω
697	D6103	T6J	3304010101100	Varactor	1470	R962	T3C	3001060000000	0Ω
698	D6104	T6J	3304010101100	Varactor	1471	R963	T3C	3001060000000	0Ω
699	D6105	T5J	3399990004910	Limiter diode	1472	R964	T3C	3001052220010	2.2kΩ
700	D6106	B7J	3699019000000	Mixer IC	1473	R965	T3C	3001060000000	0Ω
701	D6204	B3A	3303030100010	Switching diode	1474	R966	B2D	3001161510010	150Ω
702	D701	B6G	3304010100220	Varactor	1475	R968	T2C	3001052220000	2.2kΩ
703	D702	B5H	3304010100180	Varactor	1476	R969	T2C	3001064730000	47kΩ
704	D801	T1H	3303990000020	Switching diode	1477	R970	T2C	3001061020010	1kΩ
705	D802	T2I	3303990000020	Switching diode	1478	R971	T3C	3099052741000	2.74kΩ
706	D803	T3J	3303030300000	Schottky diode	1479	R972	T3C	3001062220000	2.2kΩ
707	D804	T2I	3303030300000	Schottky diode	1480	R974	B3A	3001062720000	2.7kΩ
708	D805	B4H	3302030500030	Zener diode	1481	R975	B3A	3001052030000	20kΩ
709	D900	T2D	3399100000010	TVS diode	1482	R976	T7D	3001050000000	0Ω
710	D902	T4C	3301100300030	Rectifier diode	1483	R978	B3A	3001052720000	2.7kΩ
711	D910	B2A	3302030500010	Zener diode	1484	R979	T6C	3001051030000	10kΩ
712	D911	B2A	3302030500010	Zener diode	1485	R980	T6C	3001051040000	100kΩ
713	D914	B3A	3303240000000	Switching diode	1486	R981	B3A	3001051030000	10kΩ
714	D915	T3C	3303010500290	Switching diode	1487	R982	T3C	3001051040000	100kΩ
715	D916	T2A	3303010500090	Switching diode	1488	R983	T6D	3001050000000	0Ω
716	D917	T3C	3302030500030	Zener diode	1489	R984	B3A	3001052210000	220Ω
717	D918	T3C	3302030500030	Zener diode	1490	R985	T6C	3001050000000	0Ω
718	D919	T2A	3303010500090	Switching diode	1491	R986	T6D	3001050000000	0Ω
719	D920	B2B	3303240000000	Switching diode	1492	R987	T7C	3001050000000	0Ω
720	D921	T2A	3302030500030	Zener diode	1493	RN230	B6C	3005051010010	100Ω
721	D922	T7C	3303010500090	Switching diode	1494	RN500	B7B	3005051010010	100Ω
722	F900	B2B	4002000000340	Fuse	1495	RT804	B3G	3003061040000	100kΩ
723	J400	T8C	5201020200030	Board-to-board connector	1496	S1	/	6202720000010	PA heat sink pad
724	J404	B8C	5206040200010	FFC connector	1497	T6100	B7J	3259999999080	Transformer
725	L1	B7F	3213212332000	3.3uH	1498	T6101	B8J	3259999999080	Transformer
726	L103	B7E	3217607471000	470nH	1499	U100	T8F	3604019000000	PLL IC
727	L105	B7E	3237199050010	Air-core coil 5nH	1500	U101	T7F	3616059000000	Switch IC
728	L106	B7E	3214307180000	18nH	1501	U102	T7E	3616059000000	Switch IC
729	L107	B7E	3217607471000	470nH	1502	U201	B5B	3602017000030	Audio amplification IC
730	L108	B6E	3217607471000	470nH	1503	U231	B6C	3613010000000	Baseband IC
731	L110	B7F	3217607471000	470nH	1504	U232	T5B	3612024000020	Memory
732	L112	B6E	3217607471000	470nH	1505	U233	T6A	3612016000000	Memory
733	L114	B7F	3237199050010	Air-core coil 5nH	1506	U235	B5C	3605010000020	Operational amplifier
734	L115	B7F	3214307180000	18nH	1507	U236	B4C	3605010000020	Operational amplifier
735	L116	B7E	3217607471000	470nH	1508	U237	B6B	3616010000000	Switch IC
736	L117	B7G	3217607471000	470nH	1509	U238	B6A	3605008005070	Operational amplifier
737	L118	B8G	3217607471000	470nH	1510	U302	T6B	3610010000010	MCU
738	L121	B7F	3217607471000	470nH	1511	U326	T3B	3625999000060	GPS module
739	L122	T8G	3210306150000	15nH	1512	U327	T6D	3607010000400	Logic IC
740	L123	T7G	3210306150000	15nH	1513	U328	B2C	3607010000400	Logic IC
741	L124	B7G	3237199080000	Air-core coil 8nH	1514	U401	B2B	3616010000150	Switch IC
742	L126	B7G	3214307270010	27nH	1515	U500	B7C	3606010000010	D/A conversion IC
743	L127	B7G	3217607471000	470nH	1516	U6000	B4H	3605002057090	Operational amplifier
744	L128	T8G	3210306150000	15nH	1517	U701	T5H	3603999000000	IF IC

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
745	L129	B6G	3217607471000	470nH	1518	U702	T4I	3608006000000	Power management IC
746	L131	T7E	3221506601000	Ferrite bead	1519	U703	T4H	3608015000060	Power management IC
747	L132	T7E	3217106220000	22nH	1520	U801	B4H	3605025000020	Operational amplifier
748	L133	B6G	3217607471000	470nH	1521	U802	B4H	3605002054590	Operational amplifier
749	L134	B7G	3217607471000	470nH	1522	U804	B3G	3605008005070	Operational amplifier
750	L135	T7E	3217106220000	22nH	1523	U900	T5C	3608015000180	Power management IC
751	L136	T6E	3217106120010	12nH	1524	U901	T2A	3608015000180	Power management IC
752	L137	B7G	3237199080000	Air-core coil 8nH	1525	U902	T5C	3608010000350	Power management IC
753	L139	B7G	3214307270010	27nH	1526	U903	T5B	3608015000170	Power management IC
754	L140	B7G	3217607471000	470nH	1527	U905	B4D	3608015000060	Power management IC
755	L147	T7B	3210406471000	470nH	1528	U907	T6D	3626999000020	Reset IC
756	L151	T7B	3210406471000	470nH	1529	U909	B4D	3608015000180	Power management IC
757	L152	B7F	3221506601000	Ferrite bead	1530	U910	T7C	3626015000010	Reset IC
758	L154	T8F	3213306561000	0.56uH	1531	U914	T3C	3605008005070	Operational amplifier
759	L156	T7F	3213212332000	3.3uH	1532	U915	B7D	3608015000060	Power management IC
760	L162	T7G	3210306270000	27nH	1533	U917	B2A	3609006003050	Reset IC
761	L166	T7G	3101060800010	8pF	1534	U918	B7D	3608015000210	Power management IC
762	L169	T8G	3210306330000	33nH	1535	U919	T5D	3608010006230	Power management IC
763	L171	T7G	3210306150000	15nH	1536	W321	T3A	4411100002000	IPX RF connector
764	L173	T7G	3210306150000	15nH	1537	X100	T8E	3701019250030	TCXO
765	L2	T7E	3210106150000	15nH	1538	X302	T7B	3701019250040	TCXO
766	L232	B4C	3221506300000	Ferrite bead	1539	X375	T7B	3701327610060	Crystal
767	L233	B5C	3211506101000	Ferrite bead	1540	Z6100	T8I	3802733540030	Crystal filter
768	L234	B5D	3211506101000	Ferrite bead	1541	/	/	3212106569000	5.6nH
769	L235	B5D	3211506101000	Ferrite bead	1542	/	/	3303010500290	Switching diode
770	L321	T3A	3212106390000	39nH	1543	/	/	9830000000001	Voice encoding/decoding software
771	L322	T3A	3221506300000	Ferrite bead	1544	/	/	41MD7801000L0	PCB main board
772	L4	B8F	3217607471000	470nH	1545	/	/	1616100001420	Built-in software
773	L401	B7A	3221506300000	Ferrite bead	/	/	/	/	/

UHF3 (350 – 400 MHz)

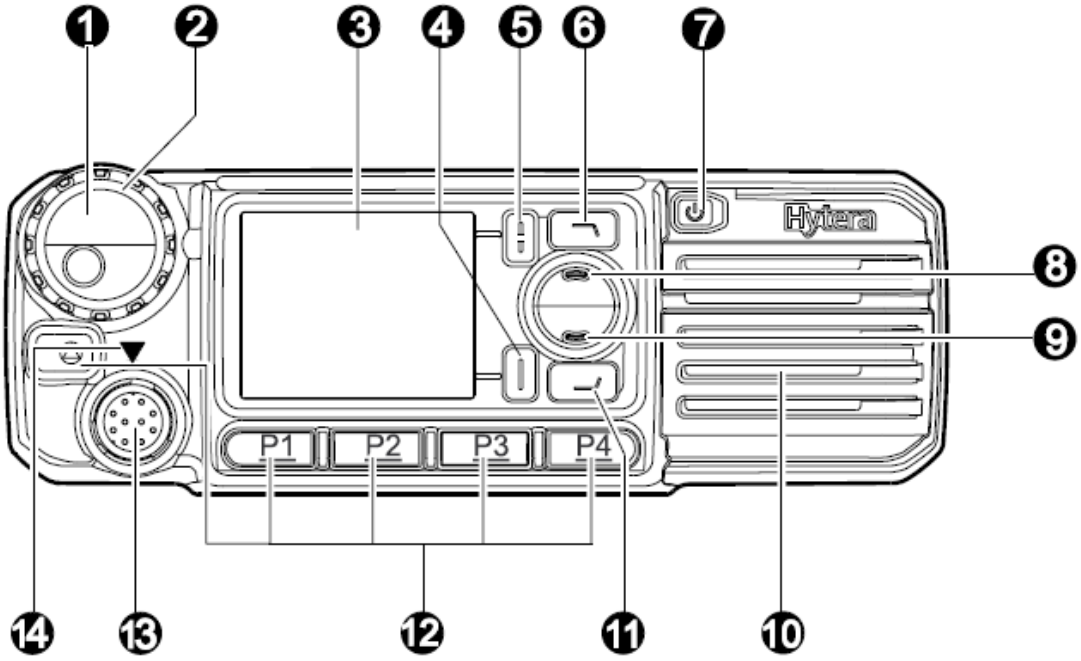
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1. Product Controls

Front Panel

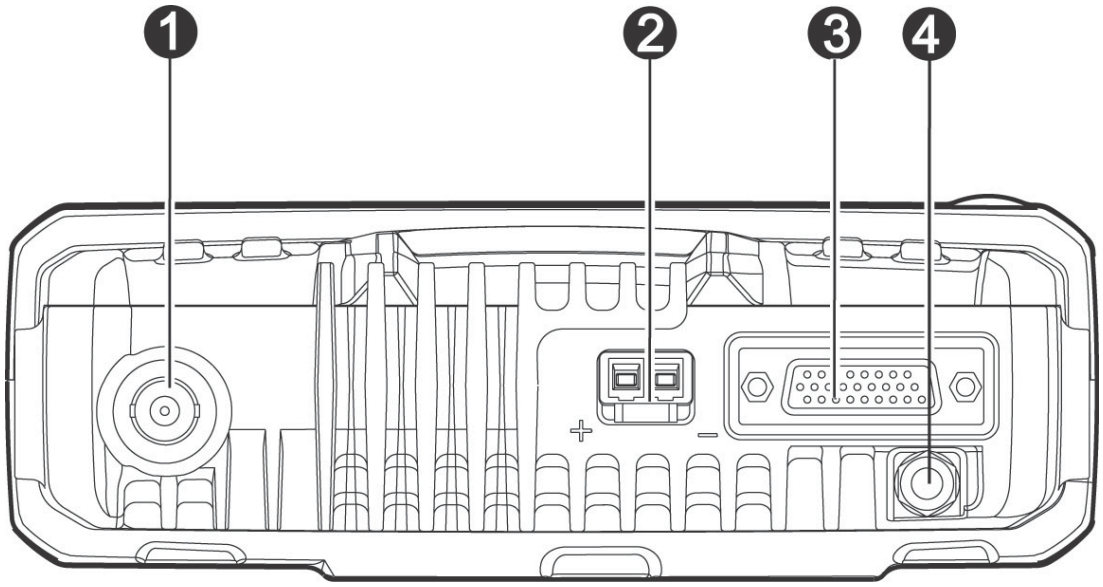


No.	Part Name	No.	Part Name
1	Volume Control/Group Call Selector Knob	8	Up Key
2	LED Indicator	9	Down Key
3	LCD Display	10	Speaker
4	OK/Menu Key	11	Redial/Answer/Call Key
5	Back/Group Call Management Key	12	Programmable Keys
6	Dial-back/End/Home Screen Key	13	Microphone Connector
7	Power On/Off Key	14	Microphone Installation Index

Note

The above-mentioned product control is based on the mobile radio in the trunking mode. In the conventional mode, No. 1 serves as Volume Control / Channel Selector Knob, and No. 6 & No.11 serve as the Programmable Keys.

Rear Panel



No.	Part Name	No.	Part Name
1	RF Antenna Connector	3	Accessory Connector
2	Power Inlet	4	GPS Antenna Connector

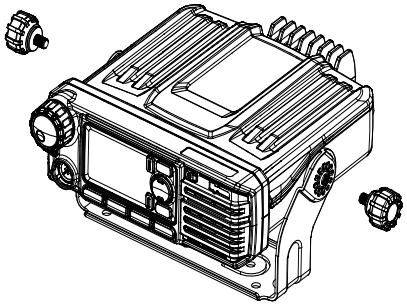
Note

The GPS antenna interface is only available for MD78XG.

2. Disassembly and Reassembly

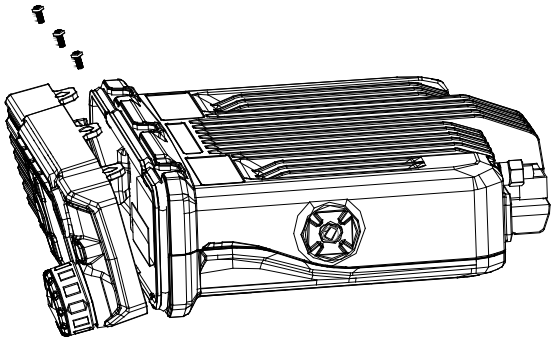
2.1 Disassembling the Radio

Step 1 Turn off the radio and remove the power cord, and loosen the two screws to remove the radio.

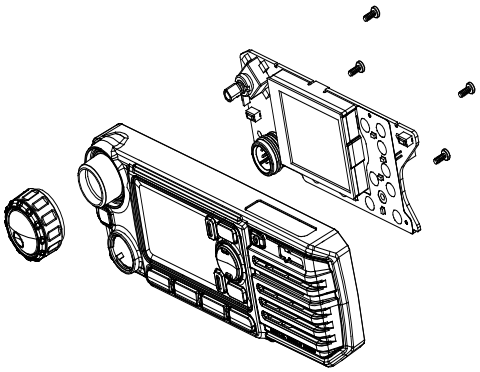


Step 2 Remove the antenna.

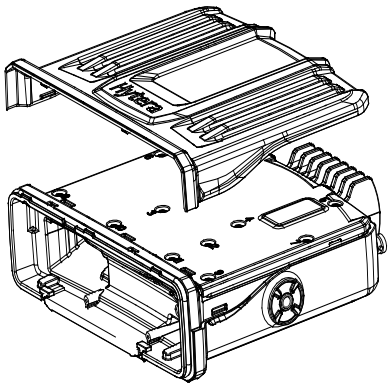
Step 3 Loosen the three screws to remove the front panel. Then remove the FFC.



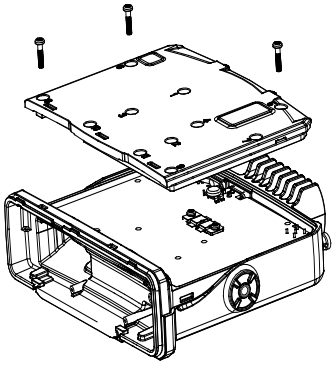
Step 4 Detach the volume control knob and loosen the four screws. Then remove the PCB from the control panel.



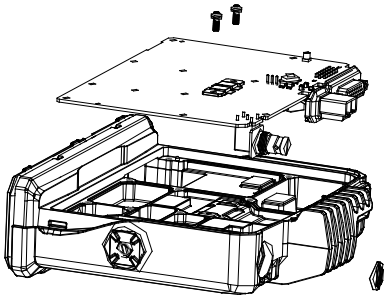
Step 5 Undo the clips on both sides of the radio, and then remove the rear cover.



Step 6 Loosen the eleven screws to remove the upper shield cover.



Step 7 Loosen the screw fixing the antenna connector and two screws fixing the PA module. Then take the PCB out.

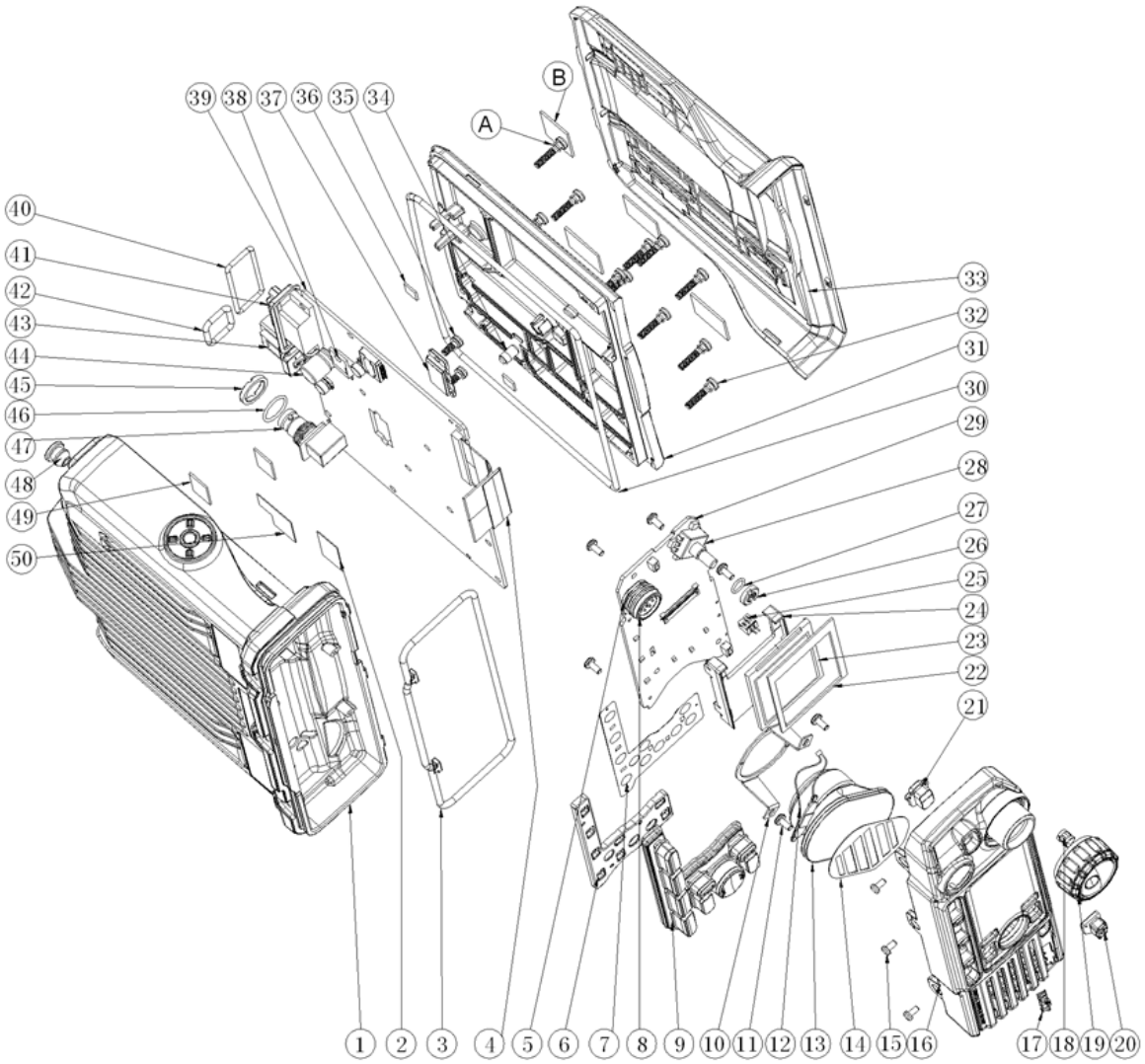


2.2 Reassembling the Radio

To reassemble the radio, perform the above steps in a reverse way.

3. Exploded View and Packing Guide

3.1 Exploded View



Part list:

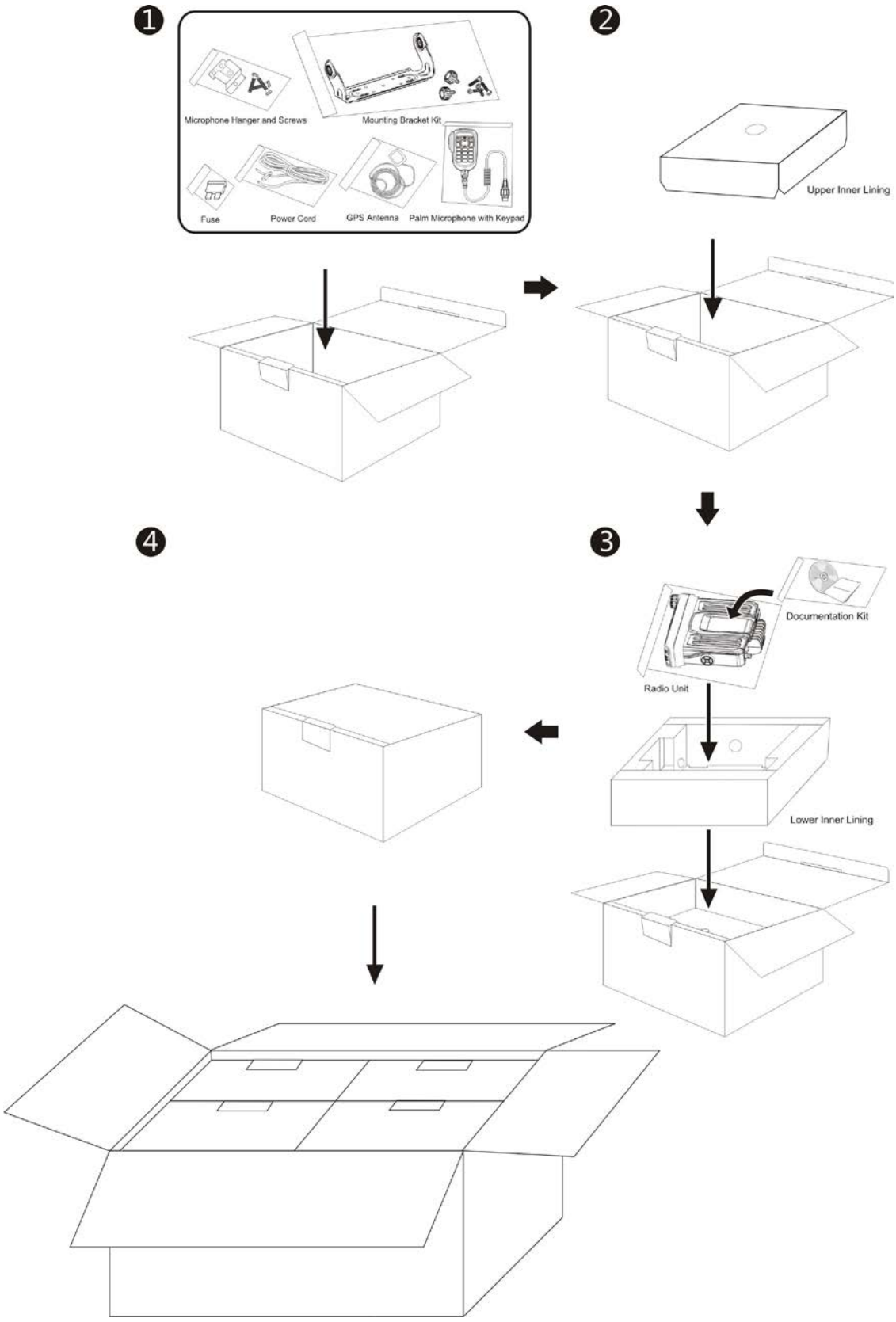
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
1	6300109000000	Aluminum chassis	1	27	6100334000000	O-ring for encoder switch	1
2	7500358000000	Heat sink pad	1	28	4399030000020	Rotary switch	1
3	6100492101000	Waterproof ring for front case	1	29	41078001000J0	PCB for control panel	1
4	4210090000200	Signal cable	1	30	6100533101000	Waterproof ring for aluminum chassis	1
5	5208010100010	Connector (male)	1	31	6300126000000	Upper cover of the aluminum chassis	1
6	6001079000000	Light-guide plate for keys	1	32	7103015000000	Machine screw	11
7	7300048000000	Metal dome	1	33	6001080000000	Plastic upper cover	1
8	6100408001000	Waterproof ring for microphone jack	1	34	6100496000000	Conductive silicone rubber for main board	1
9	6100488000000	P+R front panel keys	1	35	7103008000400	Machine screw	2
10	6201893000000	Speaker fixing sheet	1	36	7500272000000	Heat sink pad	2
11	7102606021000	Self-tapping screw	6	37	/	Semi-finished PA with heat sink pad	1

No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
12	4210080000700	Speaker cable (with 2-Pin plug)	1	38	3414999000020	PNP transistor	1
13	5001210000390	Speaker	1	39	/	Main PCB	1
14	7400297000000	Speaker felt	1	40	6100532100000	D_SUB waterproof ring	1
15	7102505000110	Machine screw	3	41	5208026100000	Jack	1
16	6001076000010	Front case for control panel	1	42	6100530100000	Waterproof ring for power socket	1
17	860P580600100	Logo	1	43	5205002100110	Power socket (male)	1
18	6201739000000	Inner lining for knob	1	44	3103994770150	Electrolytic capacitor	1
19	6000876000000	Encoder knob	1	45	7212002500000	Nut	1
20	6100493000000	Power on/off key	1	46	6100531100000	Waterproof ring for antenna connector	1
21	6100404000000	Emergency key	1	47	4401000009000	BNC RF connector	1
22	7500344000000	PORON pad	1	48	6100494000000	GPS soft stopple	1
23	5130000000040	TFT LCD 2.0" TFT	1	49	7500159000100	Thermal conductive silicone rubber	2
24	6001078000000	LCD bracket	1	50	7500357000000	Heat sink pad	1
25	5202002100270	Board-to-wire connector	1	A	6100574100000	O_ring	11
26	7207003700000	Nut	1	B	7500344000000	PORON pad	1

Note

Parts that are not marked with Part No. may vary with the radio frequency band.

3.2 Packing Guide



4. Specifications and Blind Spot

4.1 Specifications

General	
Frequency Range	350 – 400 MHz
Channel Capacity	1024
Group Capacity	64 (each with a maximum of 16 channels)
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz
Operating Voltage	13.6V±15% DC
Current Drain	● Standby: <0.6 A ● Receive: <2.0 A ● Transmit: 5 W: <5 A; 25 W: <8 A, 45 W: <12 A
Frequency Stability	±1.5 ppm
Antenna Impedance	50 Ω
Dimensions (H×W×D)	60 mm × 174 mm × 200 mm (2.4 inch × 6.9 inch × 7.9 inch)
Weight	1.7 kg (3.75 lbs)
LCD Display	220*176 pixels, 262000 colors, 2.0-inch, 4 rows
Transmitter	
Power Output	● Low: 5 – 25 W ● High: 5 – 45 W
Conducted/Radiated Emission	● -36 dBm<1 GHz ● -30 dBm>1 GHz
FM Modulation	● 11K0F3E@12.5 kHz ● 14K0F3E@20 kHz ● 16K0F3E@25 kHz
4FSK Digital Modulation	● 12.5kHz (data only): 7K60FXD ● 12.5kHz (data and voice): 7K60FXW

Modulation Limit	● ±2.5 kHz@12.5 kHz ● ±4.0 kHz@20 kHz ● ±5.0 kHz@25 kHz
FM Hum and Noise	● 40dB@12.5kHz ● 43 dB@20 kHz ● 45 dB@25 kHz
Adjacent Channel Power	● 60 dB@12.5 kHz ● 70 dB@20/25 kHz
Audio Response	+1 dB to -3 dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE++ or SELP
Digital Protocol	ETSI-TS102 361-1, -2, -3
Receiver	
Sensitivity	Analog: ● 0.3 μV (12 dB SINAD) ● 0.22 μV (Typical) (12 dB SINAD) ● 0.4 μV (20 dB SINAD) Digital: ● 0.3 μV /BER5%
Adjacent Channel Selectivity	● TIA-603: 65 dB@12.5 kHz/75 dB@20/25 kHz ● ETSI: 60 dB@12.5 kHz/75 dB@20/25 kHz
Intermodulation	● TIA-603: 75 dB@12.5/20/25 kHz ● ETSI: 70 dB@12.5/20/25 kHz
Spurious Response Rejection	● TIA-603: 75 dB@12.5/20/25 kHz ● ETSI: 70 dB@12.5/20/25 kHz
Blocking	● TIA-603: 90 dB ● ETSI: 84 dB
Hum and Noise	● 40 dB@12.5 kHz

	● 43 dB@20 kHz ● 45 dB@25 kHz
Rated Audio Power	● Internal (20 Ω load): 3 W ● External (8 Ω load): 7.5 W
Max. Audio Power	● Internal (20 Ω load): 8 W ● External (8 Ω load): 20 W
Rated Audio Distortion	≤ 3%
Audio Response	+1 dB to -3 dB
Conducted Spurious Emission	< -57 dBm
Environment	
Operating Temperature	-30℃ to +60℃
Storage Temperature	-40℃ to +85℃
ESD	IEC 61000-4-2 (level4) ±8 kV (contact) ±15 kV (air)
American Military Standard	MIL-STD-810 C/D/E/F/G
Dust & Water Protection	IP54
Humidity	Per MIL-STD-810 C/D/E/F/G Standards
Shock and Vibration	Per MIL-STD-810 C/D/E/F/G Standards
GPS (for MD780XG only)	
Accuracy specs are for long-term tracking (95th percentile values>5 satellites visible at a nominal -130dBm signal strength).	
TTFF (Time To First Fix) Cold Start	< 60s

TTFF (Time To First Fix) Hot Start	<10s
Horizontal Accuracy	<10 m

Note

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

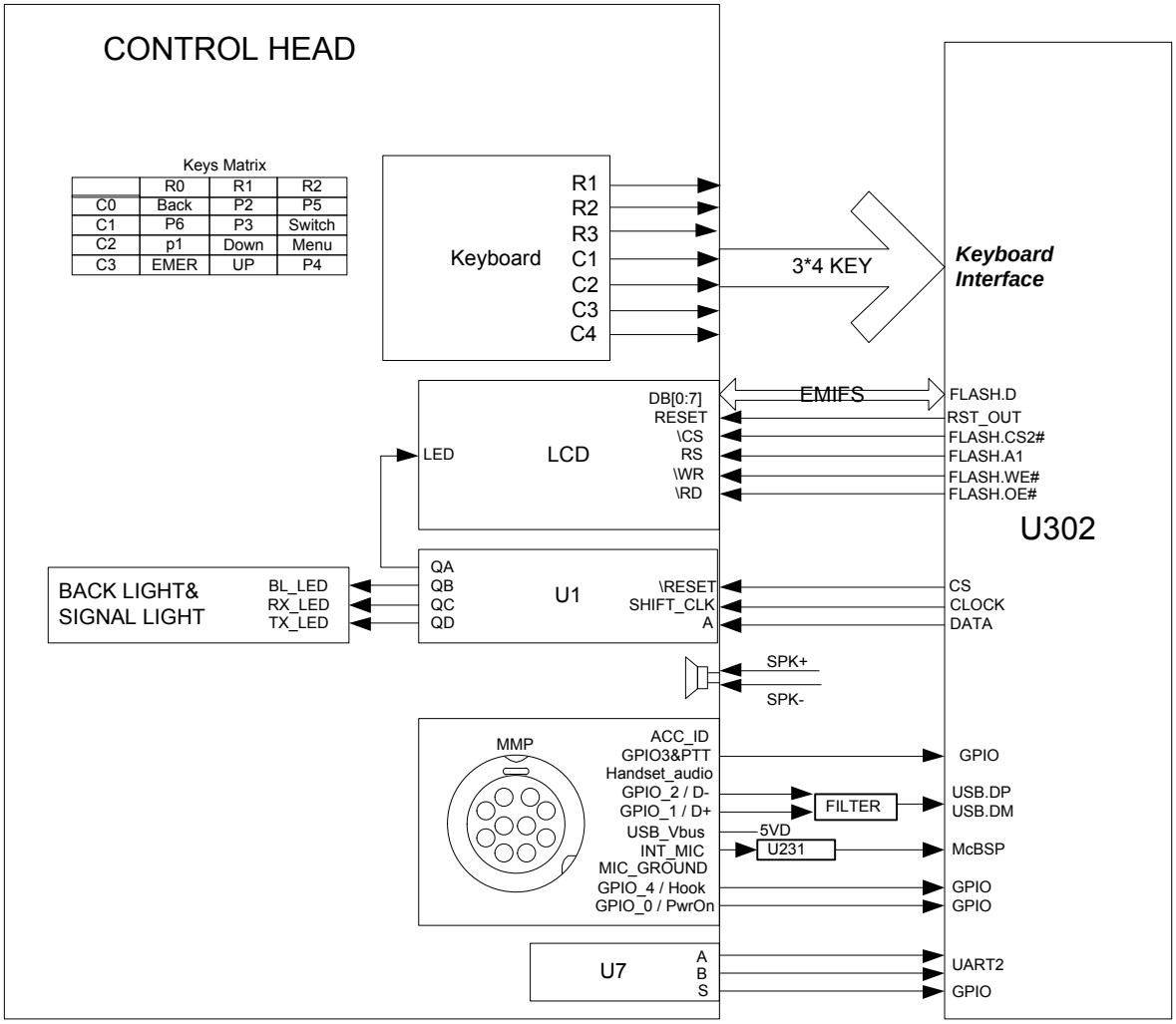
4.2 Blind Spot

No.	Blind Spot (MHz)	No.	Blind Spot (MHz)
1	364.8	4	378
2	384	5	396
3	360	/	/

5. Circuit Description

5.1 Front Panel

Front panel includes components such as power supply, keys, LCD, LED indicators, backlight, MMC interface and volume control knob. The function diagram is shown below.



Power Supply

The power supply of the main board powers the front panel via U902 (5 V), and serves as the power supply for LED indicator, backlight and USB devices. Then the power is further fed to U5, so as to power the LCD module and U1 (serial-to-parallel converter IC).

Keys

The front panel includes 12 keys, each of which has different functions in different operation mode. The identifications of each key on the front panel are realized by the 3*4 matrix keyboard.

Key	Conventional Mode	Trunking Mode
Programmable Keys	S2, S3, S7, S8, S9, S10, and	S3, S7, S9, S10, and S12

Key	Conventional Mode	Trunking Mode
	S12	
Navigation Key	S5 and S11	
OK/Menu Key	S4	
Back/Group Call Management Key	S6	
Power On/Off Key	S1	
Dial-back/End/Home Screen Key	/	S2
Redial/Answer/Call Key	/	S8

LCD

The front panel adopts TFT LCD to transfer data to U302 via the EMIFS data bus. The control signals include read/write enable signal, memory chip select signal, LCD chip select signal and reset signal, each of which is pulled up by R36, R35, R34, R33 and R6 respectively. The LCD module is powered by U5 which converts 5 V into 3.3 V.

LED Indicator and Backlight

The LED enable signal is fed to the serial-to-parallel converter IC (U1), and then is output by U302. RX status is indicated by green LED, and TX status by red LED. Backlight is activated upon any key press.

The red and green LEDs in series are powered by U902 (5 V) and controlled by Q2 and Q3. The backlight is also powered by U902 (5 V) and controlled by Q1. Control signals are output via U1.

MMC

For details, please refer to *Interface Definition.*

Audio Output

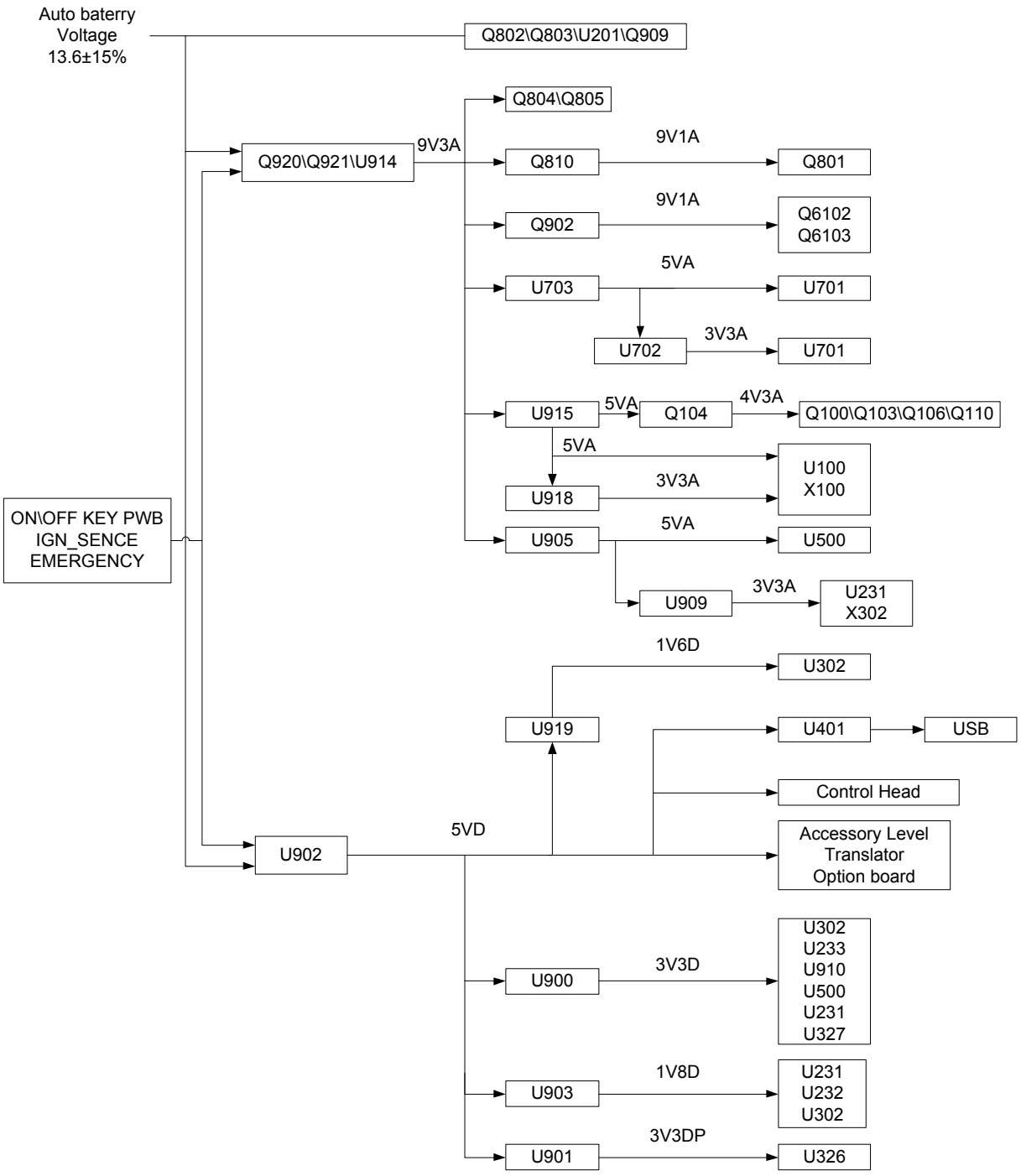
The front panel provides two audio outputs: Handset_audio and Internal_audio (SPK±). Handset_audio is the external output of received audio via MMC interface, while Internal_audio (SPK±) is connected to the internal speaker.

Volume Control

The volume control is facilitated by the rotary encoder switch (U7), which generates signals to be fed to U302 through GPIO17 and GPIO18 for volume adjustment.

5.2 Baseband

5.2.1 Power Supply Module



Both the baseband control IC and the RF section can convert the supplied voltage to an appropriate one via the voltage converter.

- Supply for RF: U914, Q920, and Q921 supply power for the RF section by high current PNP transistor and comparator, which can work as Low Dropout Regulator (LDR).
- Supply for FGU: U918 and U915 supply 3.3V and 5V respectively to U100.

- Supply for Baseband: The processor U302 is supplied by 3.3 V (U900), 1.8 V (U903) and 1.6 V (U919); the memory (U232/U233) is supplied by 3.3 V (U900) and 1.8 V (U903) respectively; the audio processor IC (U231) is supplied by 3.3 V (U905&U909&U900) and 1.8 V (U903); the DAC (U500) is supplied by 5 V (U905) and 3.3 V (U900).
- EXT_SWB+: It is supplied by 13.6 V (Q909).

5.2.2 Control Module

Power On/Off

The mobile radio can be powered on/off through any of the following methods:

- Power On/Off Key

  The mobile radio is turned on via the **Power On/Off** key. As this key is pressed, R944 becomes grounded and Q910 is on. Then Q905 outputs high-level signal, causing U902 and Q920 to start working. Afterwards, the processor (U302) executes user routines to maintain a high-level power control signal (PWR_CTR). In this case, the radio starts to work properly after the **Power On/Off** key is released.

  The mobile radio is turned off via the **Power On/Off** key. After this key is pressed, LQ910 is on and a low-level signal (PWB) to power off the radio is detected by U302, which then controls PWR_CTRL to output low level. Afterwards, the radio becomes powered off.

- Ignition Sense

  The mobile radio can be turned on when ignition is sensed. When the voltage of ignition signal exceeds 7 V, Q1 will be turned on by charging of C933, R955 and R956. As a result, the PNP transistor of Q905 will be further turned on to power the mobile radio. Meanwhile, Q401 will also be turned on, and U302 will identify ignition signals by detecting the signal from Q401; afterwards, the level PWR_CTRL is generated by the processor.

- Emergency

  When the emergency alarm pin is at low level, R940 is grounded, and Q906 is turned on to supply power for the mobile radio. Meanwhile, Q908 is also turned on and the low level is detected from U302. At this time, if the mobile radio is off, the PWR_CTRL signal will be output to power on the mobile radio and the emergency signal will be output. However, if the mobile radio is already on, the emergency alarm pin will be at lower level and only the emergency signal will be output.

Power-on process:

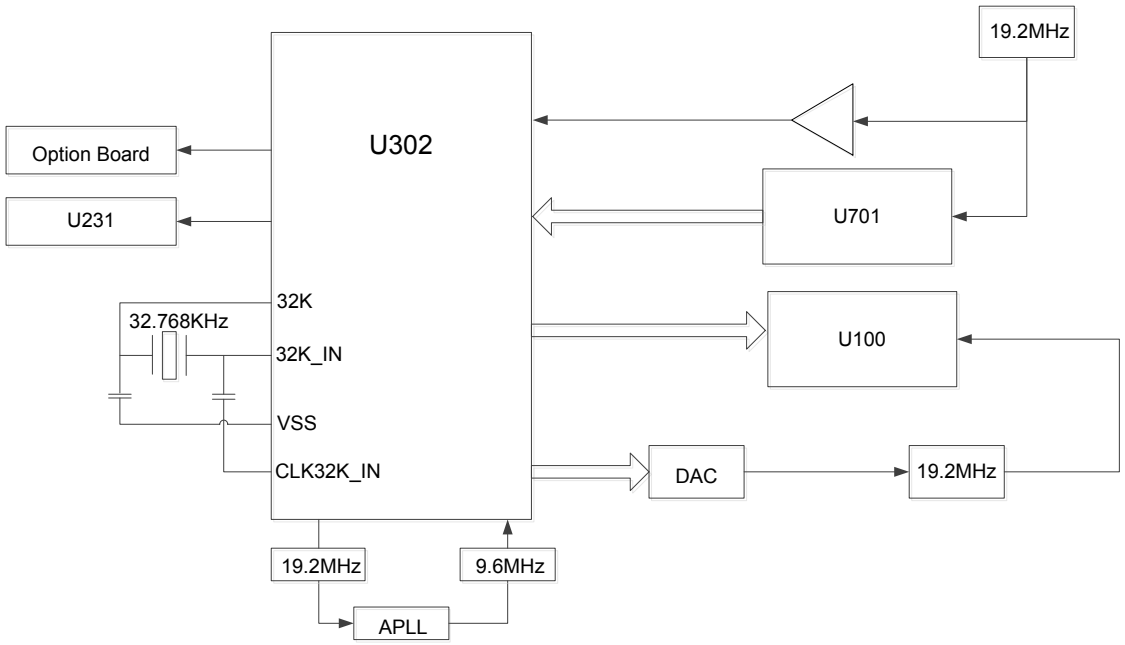
Step 1 Power on the mobile radio using one of the three methods (**Power On/Off** key, Ignition Sense, or Emergency);

Step 2 U917 generates reset signal and remains low level for 1.25 seconds, allowing the processor (U302) to get started.

Step 3 Power-on signal is sent to the processor (U302).

Step 4 After receiving the signal, the processor (U302) generates the level of PWR_CTRL. Then the power-up procedures are completed.

Clock



- Input Clock

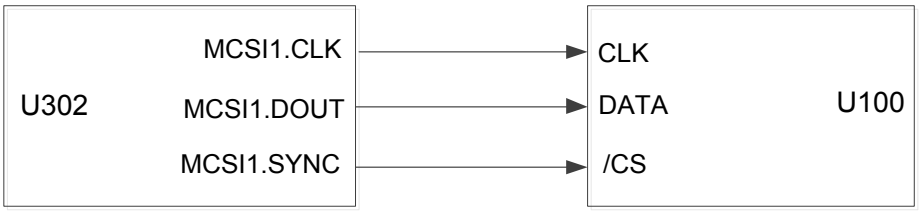
  The 32K clock provided by X375 is mainly used for timing and sleeping of the mobile radio. Its frequency (32.768 kHz) is divided by U302 (32768 times in all) to 1Hz for counting seconds. The system clock (19.2MHz) is generated by an external crystal oscillator.

- Output Clock

  The baseband outputs clock signals to U231, U100 and Option Board respectively.

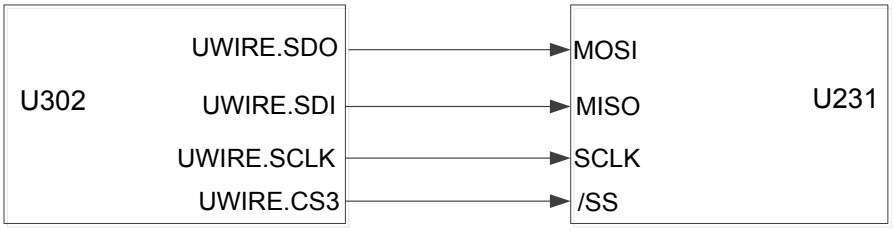
Interface Distribution

- MCSI Interface



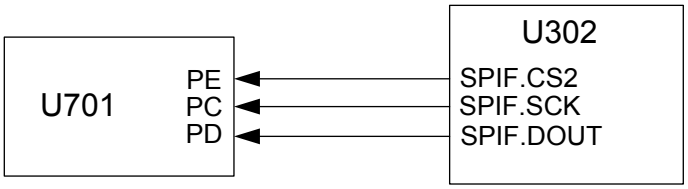
When U302 is communicating with U100, it works in Master Mode with clock frequency of up to 9.6 MHz. U100 uses MCSI1.CLK as the clock, MCSI1.DOUT as data cable to configure its register, and MCSI1.SYNC as chip select signal.

- MICROWIRE Interface



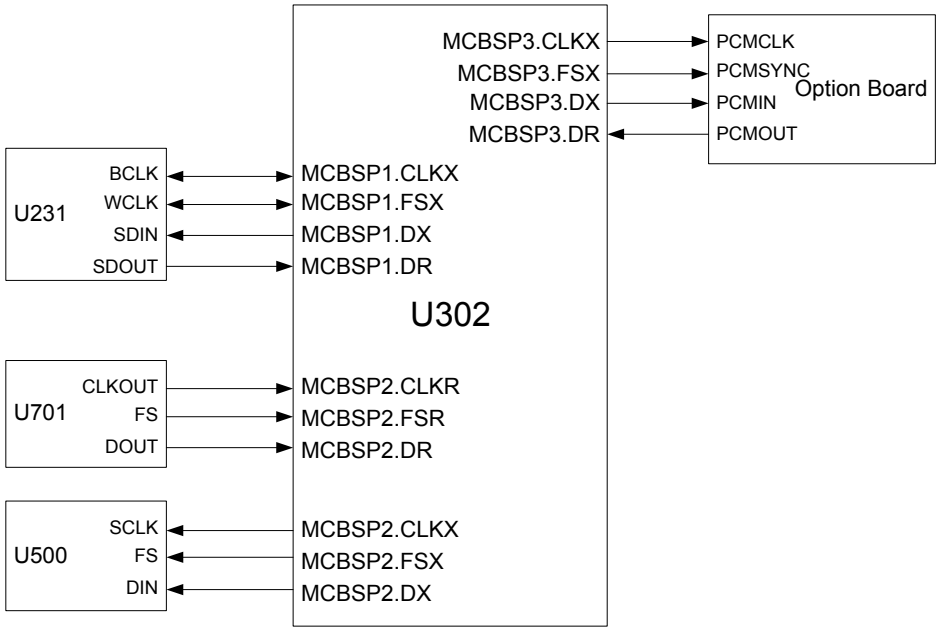
The MICROWIRE interface can accommodate four external devices at most, generally transmitting control and status messages of external devices, and reading data from ROM. Its maximum clock frequency is a quarter of system clock frequency. In this case, MICROWIRE is used to configure or read from the audio processor U231 and requires chip select signal CS3.

- Serial peripheral interface (SPI)



SPI of the processor U302 operates in Master mode, and it is controlled by MPU or DMA. In Master Mode, U302 can provide four chip select signals, of which CS2 is used to control the Intermediate Frequency (IF) digital processor U701.

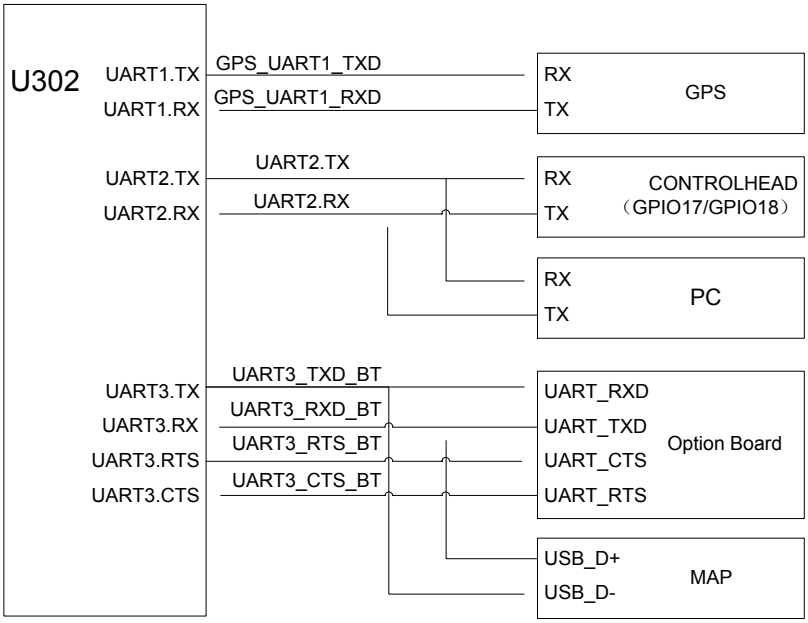
- Serial Synchronous Interface (SSI)



U302 provides three MCBSP interfaces including MCBSP1, MCBSP2 and MCBSP3, which are compatible with various interfaces.

- MCBSP1 is connected to the interface I2C of audio processor U231, to realize two-way transmission of digital voice and data.
- MCBSP2 uses independent clock and frame synchronization for transmission and reception. The SSI of U701 is connected to the RX end of MCBSP2 for U302. U500 is connected to the TX end of MCBSP2. In this case, U302 works in Master Mode.
- MCBSP3 is connected to the Option Board interface for voice and data transmission.

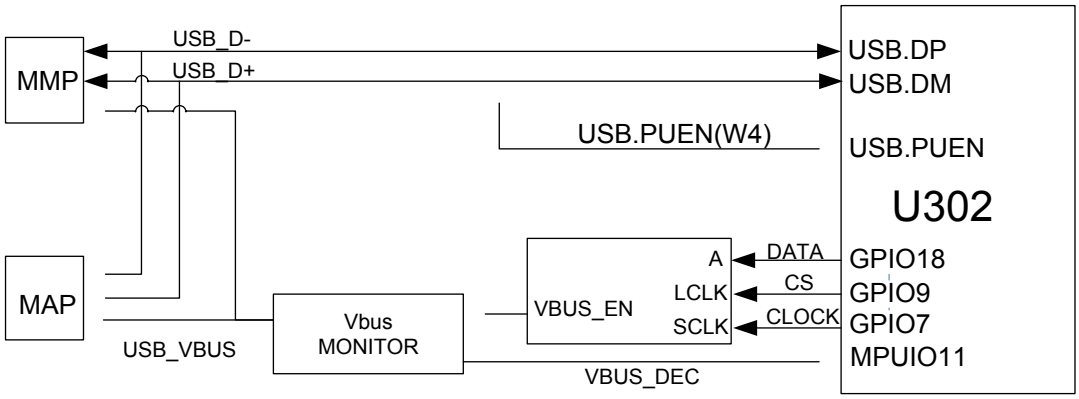
- UART Interface



Processor U302 provides three UART interfaces, which are used to communicate with different external devices.

- UART1 is used for communication with GPS module.
- UART2 is used for communication with front panel (GPIO17 and GPIO18).
- UART3 is used for communication with the Option Board and accessory connector.

- USB Interface



The mobile radio provides two USB interfaces, which are connected to the same USB signal port of the processor U302.

- Mobile Accessory Connector (MAC)

Mobile accessory connector contains audio interface, programmable I/O port, serial port, USB port, accessory identifier port and etc, which are applied for further development. For details, see 7 Interface Definition.

- Option Board Interface

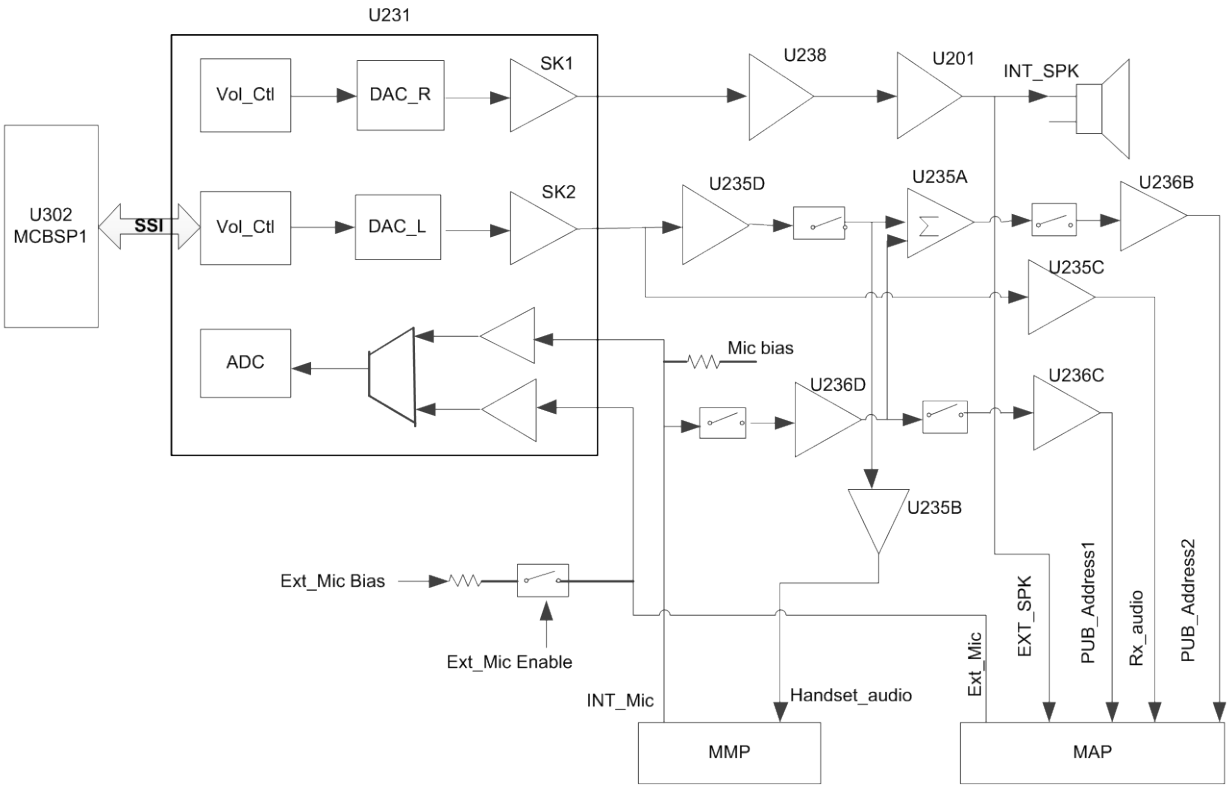
  J400, an option board interface, is used to achieve specific function by connecting to the designated option board. The definition of each pin is listed as below:

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remarks
1 3 5 7 9	GPIO1 GPIO2 GPIO3 GPIO4 GPIO5	GPIO GPIO GPIO GPIO RESET-OUT	I/O I/O I/O O O	VIH MIN=0.7VDD VIL MAX=0. 3VDD VOH MIN=0.8VDD VOL MAX=0.22VDD	GPIO5: output signal of resetting the option board. GPIO4/GPIO5: Unidirectional output interfaces. They require their input resistances are greater than or equal to 47 kΩ.
11 13 15 17	UART-TX UART-RX UART-CTS UART-RTS	UART	O I I O		UART
2 4	I2C –SDA I2C -SCL	I2C	I/O O		I2C
6 8 10 12	MCBSP-DR MCBSP-WCLK MCBSP-DX MCBSP-FSX	MCBSP	I I/O O I/O		McBSP: Multi-channel buffered serial port
14	AGND	AGND	/	/	/
16	AF OB TO MB	AF	I	80 mV (standard output from the option board to the main board)	MAX: 700mV

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remarks
18	AF MB TO OB	AF	O	80 mV (standard output from the main board to the option board)	MAX: 700mV
19	DGND	DGND	/	/	/
20	3V6 or 5V	Power	O	Voltage: 5.0 V	/

5.2.3 Audio Module

The audio module is used to output RX audio and input relay audio and TX audio, which serves as the RX audio path and TX audio path.



- RX Audio Path

  U302 sends digital audio signals to the audio processor codec (U231) via the SSI bus of MCBSP1.This bus is composed of CLKX, FSX, DX and DR. It sends the 16-digit demodulated PCM audio signal to the codec (U231), and adjusts the signal to appropriate amplitude according to the

volume (RMS should be 80 mV when frequency is 1 kHz and deviation is 3 kHz). Then the codec (U231) converts PCM data into analog audio data via DAC.

U231 provides two outputs: SPK1 and SPK2. SPK1 is amplified by U238 and then is fed to the PA U201, to derive two outputs of received audio, which will be applied to the front panel speaker and further development interface respectively. SPK2 is amplified and divided into the four paths of signal Handset_audio, RX_audio, PUB_Address1 and PUB_Address2. The first two paths are amplified by U235, and the last two paths are amplified by U236. Output of Handset_audio, PUB_Address1 and PUB_Address2 are controlled by Q231, Q235 and Q233 respectively.

- TX Audio Path

  The audio processor U231 has two MIC inputs: the internal MIC and external MIC. The internal MIC is connected to the MICIN_HND of U231, and is combined with AUX1 to provide differential input. After 9.3 V is divided by R255 and R264, a bias voltage of about 7 V is provided to the front panel MIC. The external MIC is connected to the MIC_HED of the codec (U231) as a unidirectional input.

  Both MICs are controlled by Q232. When the internal MIC is active, EXT_MIC_EN is at low level, bias voltage of external MIC is disconnected, and the ADC in U231 samples voltage at the MICIN_HND. When external MIC is active, EXT_MIC_EN is at high level, Q232 is turned on, bias voltage is connected, and the ADC in U231 senses only audio data at pin MICIN_HED.

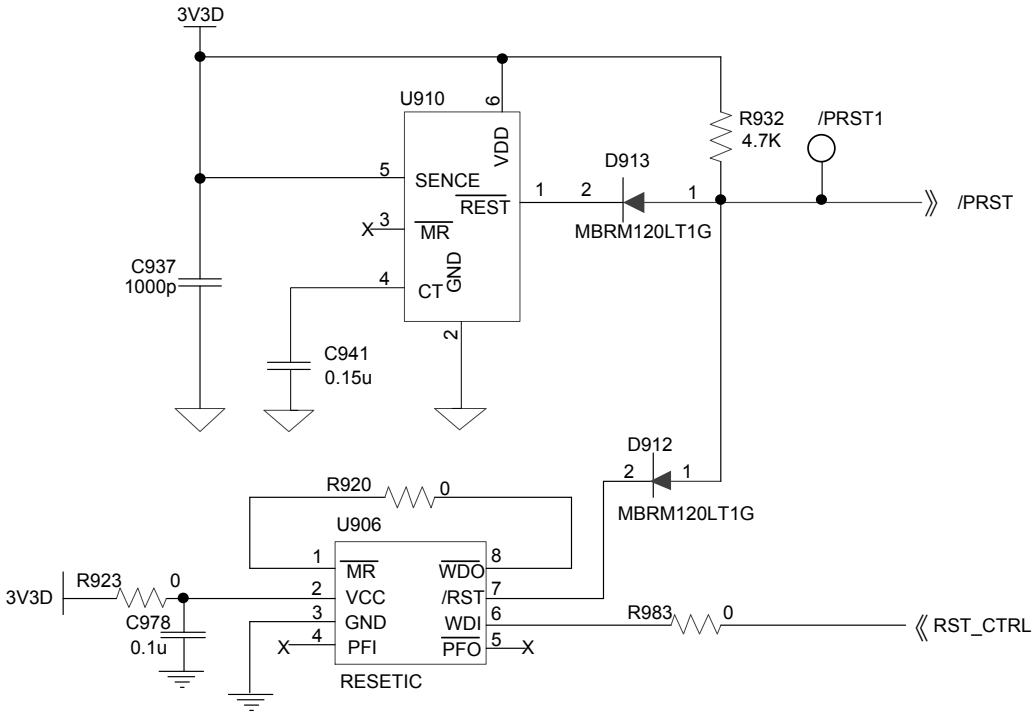
  Audio signals input from the MMC interface and the accessory connector are fed to the Codec (U231) and then are converted by the ADC into 16-bit PCM digital audio signals, which will be fed to U302 via the SSI.

  When the mobile radio is set to Public Address mode, the audio signal will be generated by the internal MIC, and then is buffered by U231, and finally is output via SPK2. The output audio signal is amplified, and then is output as the two paths of audio PUB_Address1 and PUB_Address2.

5.2.4 PCB Difference

The PCB has four versions: D, F, H, and L.

- Version D: It is the basic version.
- Version F: The watchdog circuit (in the figure below) is added.



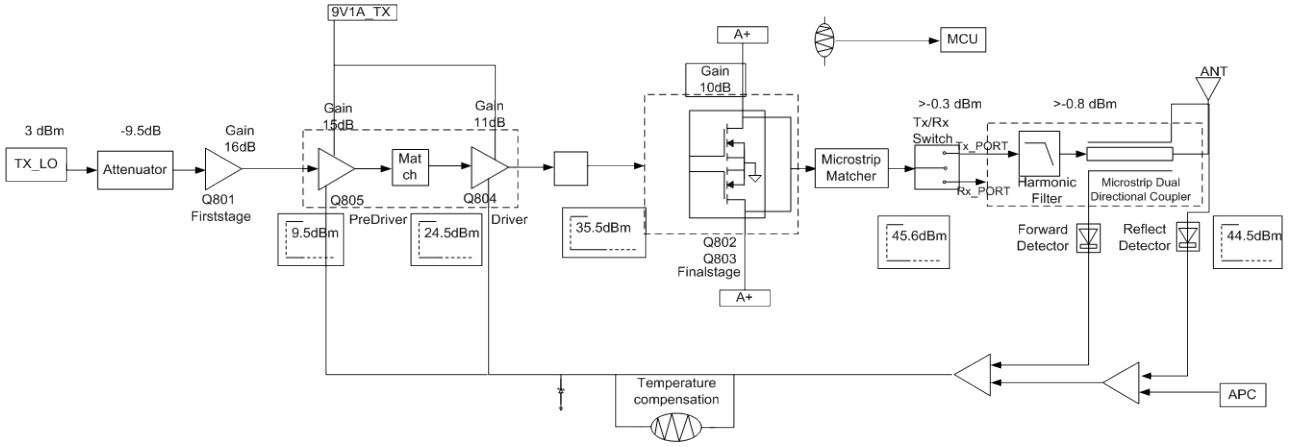
The watchdog circuit is used to prevent the mobile radio from damage due to OMAP malfunction. If the program works properly, U302 feeds pulse signal (25 ms) to the watchdog circuit through RST_CTRL. Otherwise, this pulse signal will be terminated and delayed for more than 1.6s so that U906 generates the reset signal to reset OMAP.

- Version H: The audio amplifier is different compared with Version D and Version F.
- Version L: The DC/DC conversion circuit is optimized, GPS pulse and GPS backup circuit are added, and some circuits are deleted.

5.3 RF Section

5.3.1 Transmitter Circuit

The transmitter circuit is composed of power amplifier circuit and power control circuit. The former is used to amplify the voltage control oscillator (VCO) signal to the appropriate output power level, while the latter can keep the output power at the appropriate level, so as to protect the power amplifier from damage caused by overheating, antenna mismatch, and out-of-range voltage (over voltage or under voltage may result in damage to Q801, Q805, Q804, Q802 and Q803).



Power Amplifier Circuit

The power amplifier circuit consists of four-stage power amplifier circuits and amplifies the signal output from VCO to the required output power level.

Note

Only one final-stage PA (Q803) is available, if the power of the mobile radio is 25 W and the version of main board is Version H or later version.

- TX Buffer Amplifier

  TX buffer amplifier provides 16 dB power gain by Q801. Adjust the bias circuit of TX buffer amplifier circuit to get a quiescent bias current of 28 mA for Q801. Power supply for the switching transistor Q810 is controlled by TX signal, so as to further control the power supply for the whole circuit.

- Pre-driver Power Amplifier

  The pre-driver power amplifier is formed by Q805, with variable gain controlled by voltage VGG. The input matching circuit is composed of C826, L826, L814, C843, and R824.

- Driver Power Amplifier

  The driver power amplifier is formed by Q804, with variable gain controlled by voltage VGG. Its maximum output power is 35.5 dBm and maximum gain is 11 dB.

- Final-stage Power Amplifier

  The final-stage power amplifier outputs via two LDMOS PA transistors (Q802 and Q803) which are in parallel connection. Its maximum output power is 45.6 dBm and the maximum variable gain is 10 dB. The input matching circuit is composed of C815, C839, R804, R806, R807, R813, R818, and R861, while the power combining circuit is composed of C820, C830, C831, C819, C812, C841, and C842.

Antenna Switch

The antenna switch is used to switch between the transmitter circuit and the receiver circuit.

- In TX mode

TX signal controls the switching transistor Q810, to further control the power supply (9 V 3 A) for the PIN diodes D801 and D802. Quiescent bias current of the PIN diode is controlled by the resistors R821 and R825. In this mode, D801 and D802 are turned on; RF signals are transmitted via the antenna port through the low-pass filter (composed of C821, C816, C836, C837, C838, L809, L813, and L810).

- In RX mode

  TX signal controls the switching transistor Q810, to further control the power supply for the PIN diodes D801 and D802, which are not applied with DC bias current. When the two PIN diodes are turned off, signals feed into the RX path through the low pass filter (composed of L871, C852, and C862).

Low-pass Filter

The low-pass filter consisting of inductors (L809, L813, and L810) and capacitors (C821, C816, C836, C837, C830, and C838), is used to attenuate harmonic energy from the transmitter.

Directional Coupler

The directional coupler is composed of components such as microstrip directional coupler, D803 and D804. It is used to detect both forward and reverse power of the transmitter. The forward power is coupled to the diode D803, and the voltage is applied to the power control circuit (U801). Then U801 outputs the voltage VGG for controlling the gate voltage of Q805 and Q804, ensuring a constant power output. The reverse power is coupled to D804. The voltage is applied to U802 and then fed into U302 for detection.

Power Control

The TX power is controlled by power control chips U801. The forward power is applied to the directional coupler, to output a voltage that can represent the forward power. The voltage together with the preset voltage feeds to U801 to output a voltage VGG, which can control both gate voltage and gain of Q804 and Q805, ensuring a constant power output.

Thermal and Over-voltage Protection

The circuit comprises thermistor RT804 and resistor R884. The output voltage is proportional to the detected temperature. Both the voltage used for temperature detection and the threshold voltage are fed to the operational amplifier U804, to output a voltage signal that is proportional to the detected temperature. The voltage is applied to software judgment via the diode, and then the preset voltage will be subsequently changed to lower TX power, and to protect the PA from over-heating.

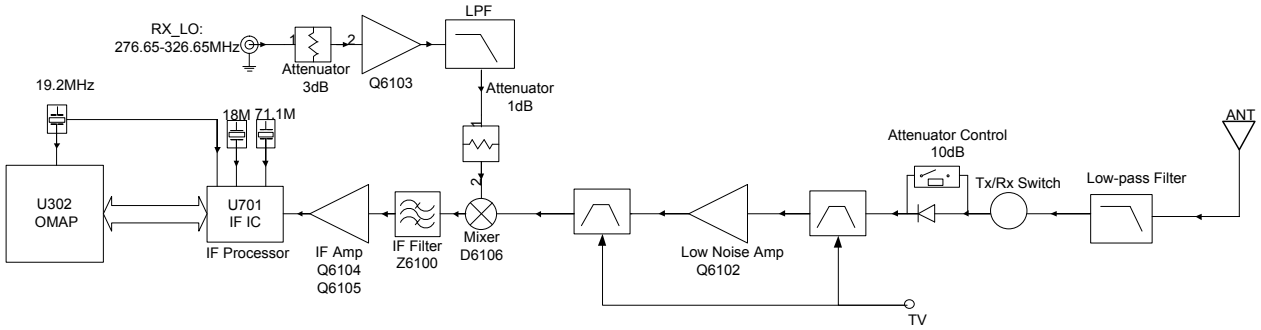
Pressure Pad Switch

The power control circuit includes a pressure pad switch SW1, which is controlled by the conductive rubber part mounted on the upper cover. When the switch is turned off, the power control voltage VGG

will become low, and no power will be output from PA. Otherwise, PA will work normally.

5.3.2 Receiver Circuit

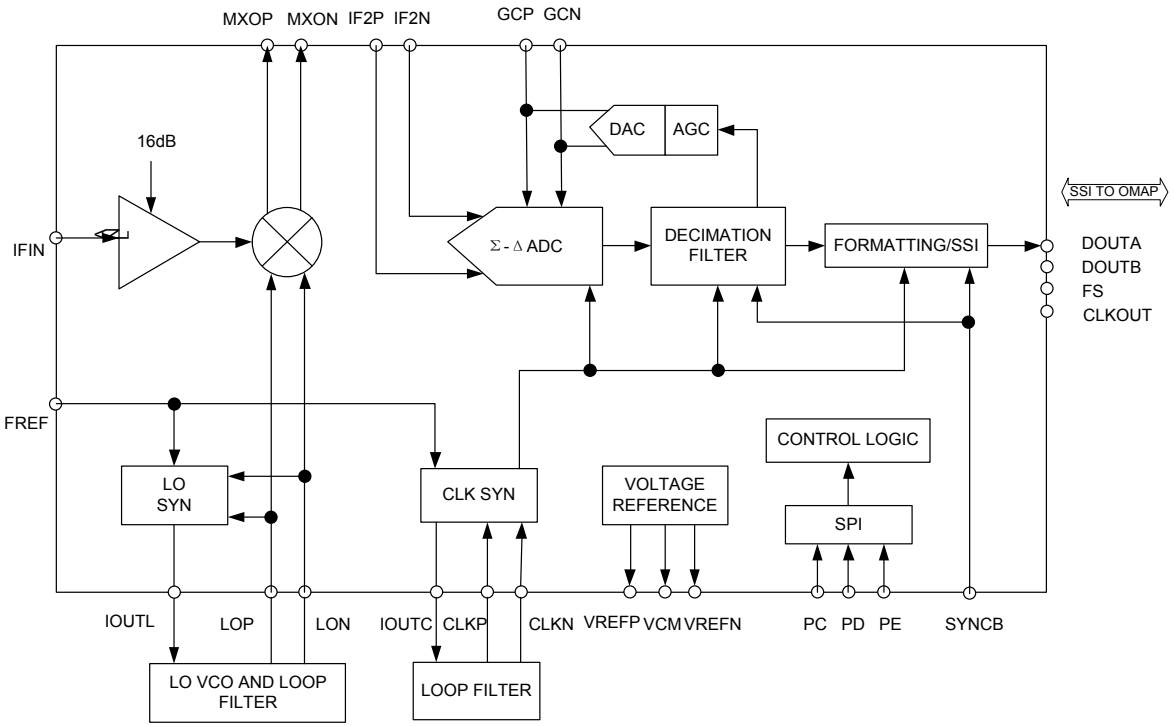
The receiver circuit employs double conversion superheterodyne technique. The first IF is 73.35 MHz and the second IF is 2.25 MHz. The first local oscillator (LO) signal is supplied by the PLL circuit (U100), and the second LO signal (71.1 MHz) is supplied by IF processor circuit (U701). The major units are BPF and LNA, mixer, IF filter, IF amplifier, and IF processor.



Receiver Front-end

RF signals feed to the low-pass filter to remove out-of-band signals, and are applied to the two-stage electrically tunable band-pass filter to get useful signals. After passing through the RF band-pass filter and LNA (Q6102), the RF signals together with the first LO signal feed to the mixer (D6106) for the first frequency conversion, to generate the first IF signal (73.35 MHz). The LO signal (3 – 5 dBm) from the VCO feeds to Q6103 to get a gain (17 dB). Afterwards, the first LO signals (73.35 MHz) pass through the crystal filter (Z6100) to remove out-of-band spurious signals, and then feed to the two-stage IF amplifier circuit (composed of Q6105 and Q6104) for amplification. Finally the amplified signals go to the IF IC (U701) for processing.

Receiver Back-end



The first IF signal (73.35 MHz) output by the IF amplifier goes into IF IC via Pin 47, where the signal is converted to the second IF signal (2.25 MHz). Then the un-demodulated digital I/Q signal output from the SSI is sent to U302 for demodulation. IF IC employs a reference frequency of 19.2 MHz and shares the crystal with U302. The second LO VCO consists of the external transistor, varactor and relevant components, to provide the second LO signal. The clock frequency is 18 MHz, which is generated by the external LC (D702, L715 and C745) resonance loop.

DSP (U302) acquires the audio signal from IF IC. Then this signal goes through U302 to output data signal, which is sent to U231 and PIN44 (SSI_DI) for digital-to-analog conversion. Finally, the output analog audio signal will be subjected to gain control, and then fed to the speaker.

5.3.3 FGU Circuit

PLL Synthesizer

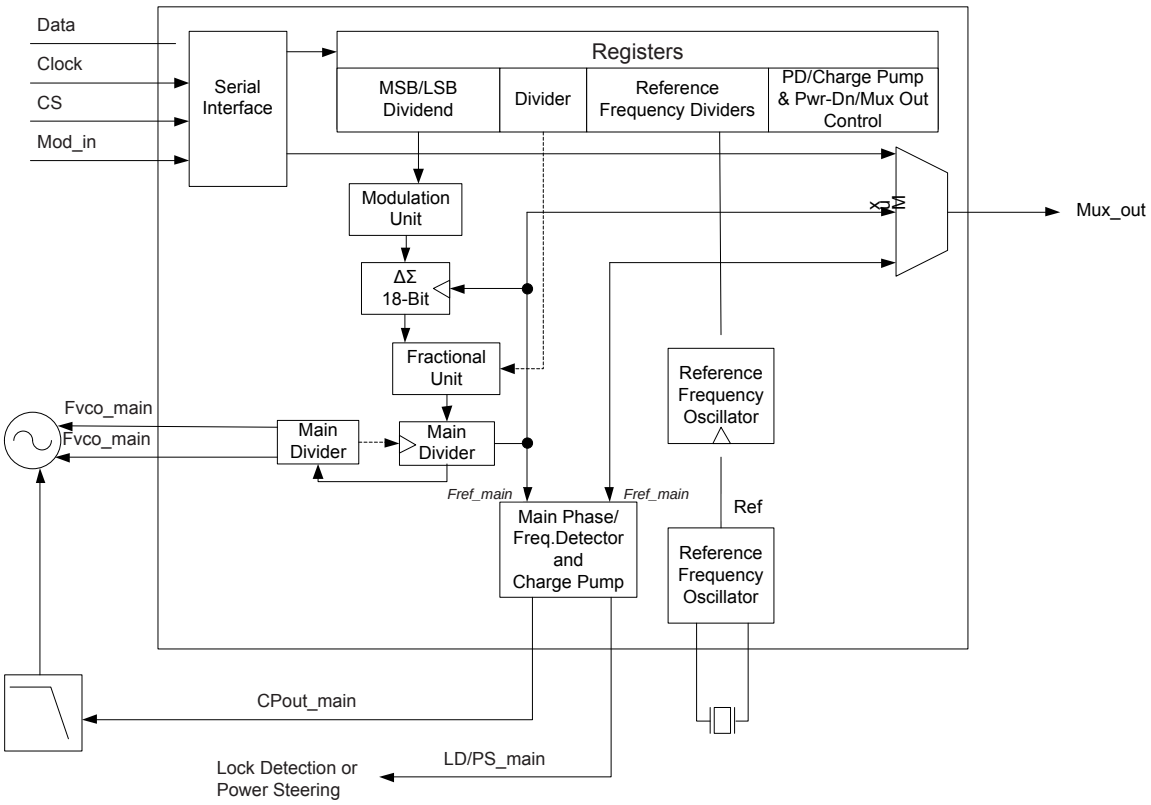
The PLL synthesizer that consists of the crystal oscillator (X100), PLL IC (U100) and VCO, is used to supply excitation signal source to the transmitter, and LO signal to the receiver.

Crystal Oscillator

Crystal oscillator (X100) employs a 19.2 MHz Temperature Compensated Crystal Oscillator (TCXO), and its reference frequency is calibrated by the digital-to-analog converter IC (U500) for accuracy.

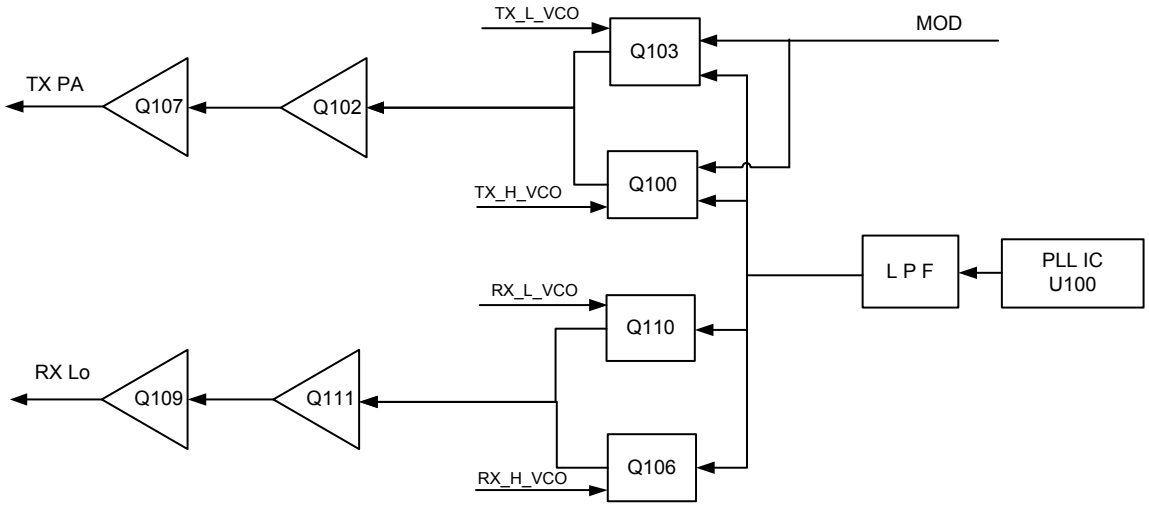
PLL IC

The PLL IC (U100) is a fractional frequency divider IC. The logic switch ICs (U101 and U102) work with the PLL IC (U100) to achieve locking.



The 19.2 MHz frequency generated by the crystal oscillator (X100) goes into the PLL IC (U100) for frequency division, generating the reference frequency. Meanwhile, the frequency generated by VCO goes into PLL IC (U100) for frequency division. The resulting frequency will be compared with reference frequency in terms of phase difference in the phase detector. After comparison, the resulting frequency is converted to CV voltage via the loop filter, to control and lock the frequency.

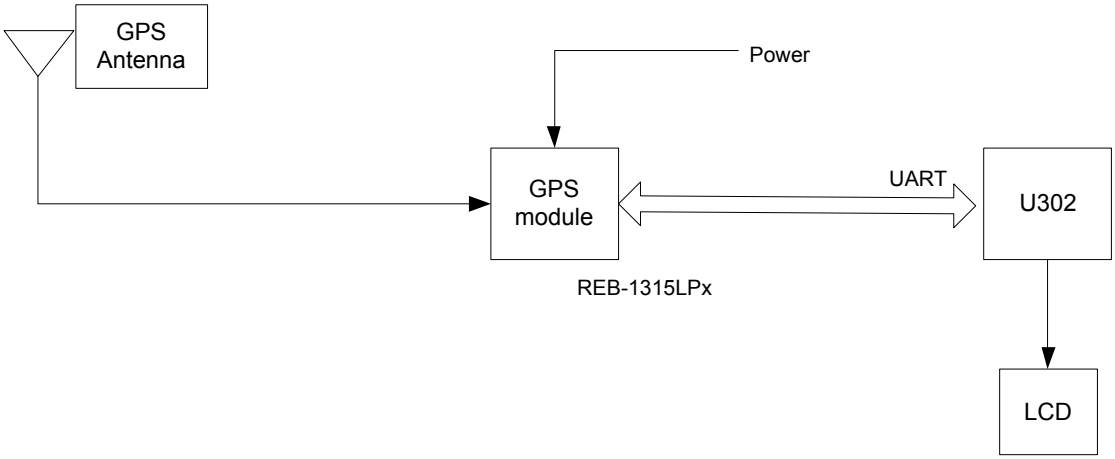
Voltage-Controlled Oscillator (VCO)



The VCO is composed of transistors (Q100, Q103, Q106 and Q110), varactors and four Colpitts oscillators. There are four VCOs in all: two VCOs (Q100 and Q103) used to transmit excitation signals and the other two VCOs (Q106 and Q110) to receive LO signals. U302 controls the operating frequency

of the VCO. Q102 and Q107 constitute the buffer amplifiers for the transmitter circuit, while Q111 and Q109 for the receiver circuit. The digital-to-analog converter (U500) modulates the TX oscillator signal.

5.4 GPS Circuit Section

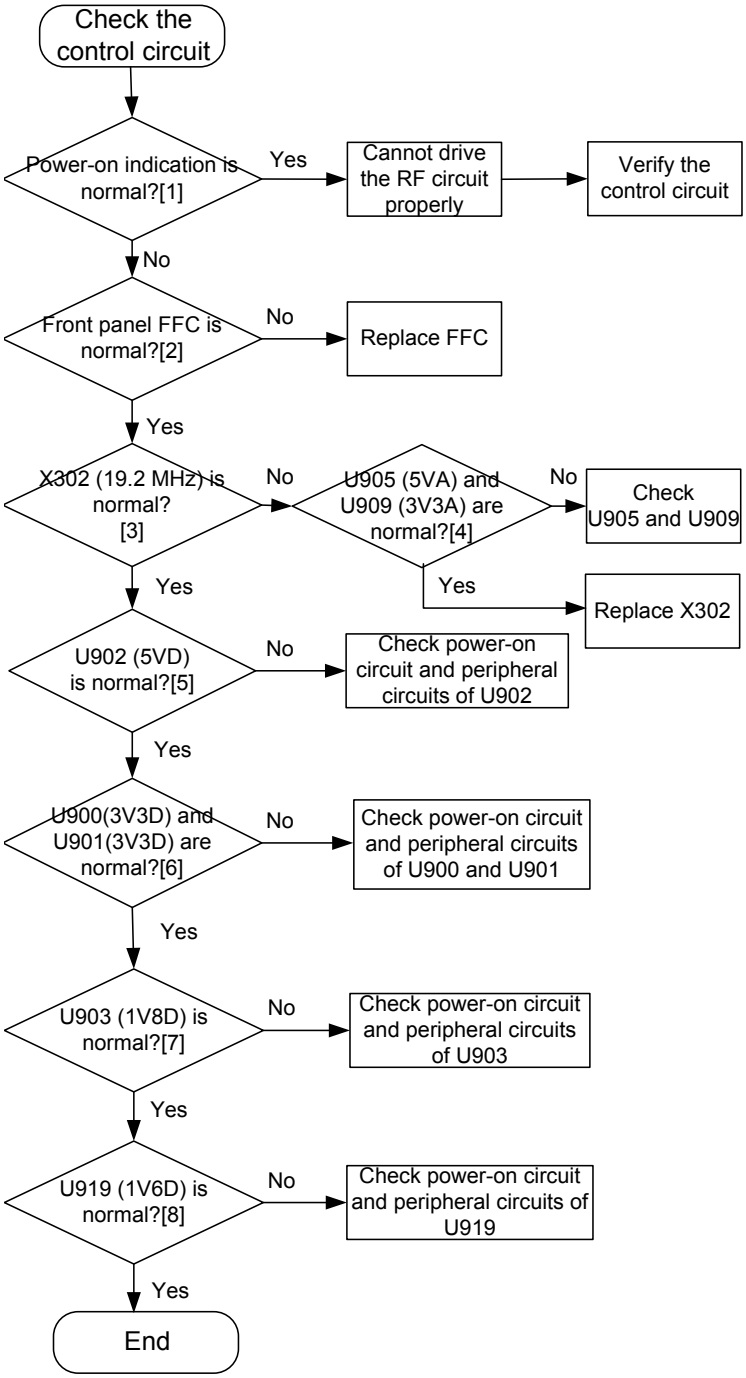


GPS data can be acquired via the programmable GPS key on the front panel of the mobile radio. The GPS function is realized via REB-1315LPx module, which integrates GPS baseband processor circuits.

The GPS signal (1.57542 GHz), received via the GPS active antenna (with a built-in LNA), goes to the GPS module for processing, and then enters U302 via the UART port. Meanwhile, U302 sends control command to the GPS module and forwards processed GPS data to the LCD display.

6. Troubleshooting Flow Chart

6.1 Control Circuit



Description of normal situations:

[1] The screen is not blurred upon power-on.

[2] The FFC connects correctly.

[3] The frequency of signal from X302 is 19.2 MHz.

[4] The output voltage of U905 and U909 is 5 V and 3.3 V respectively.

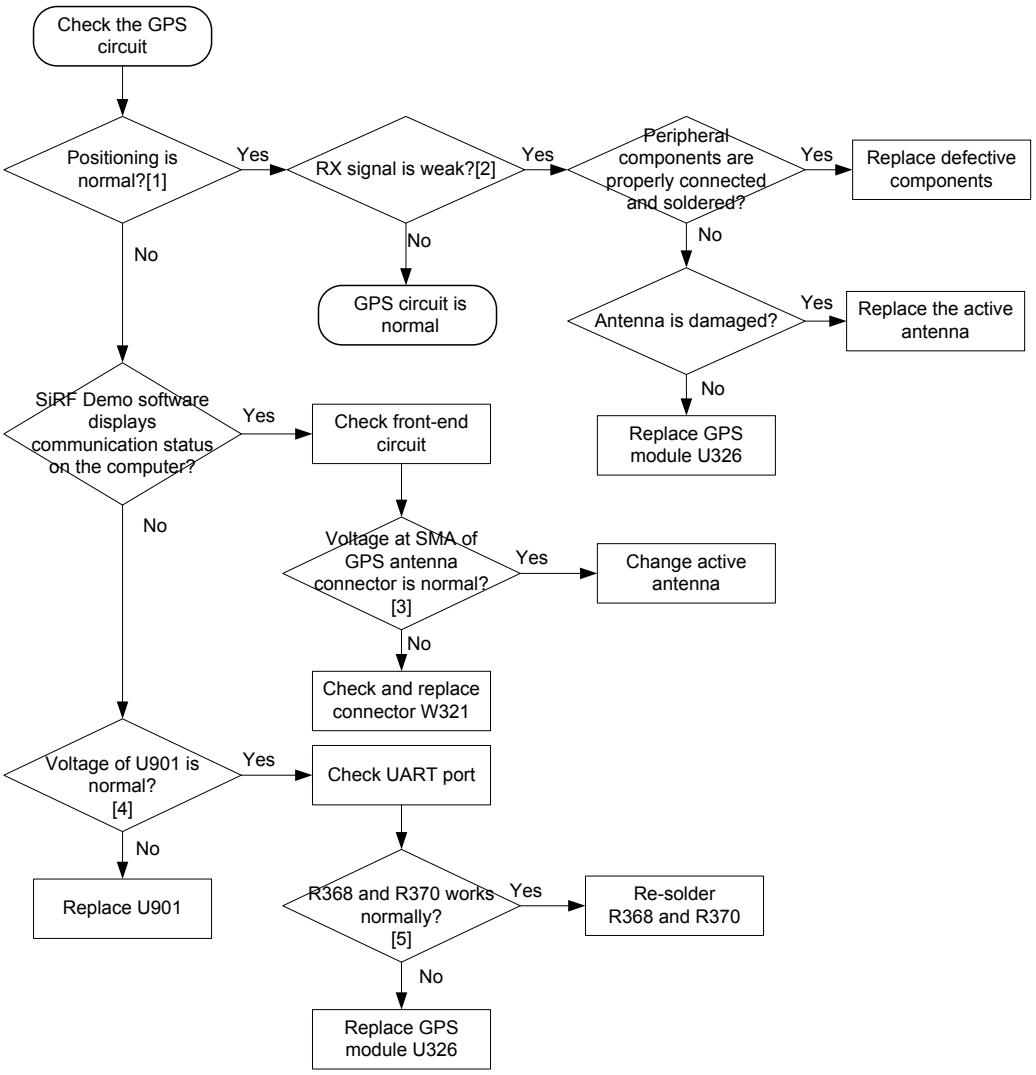
[5] The output voltage of U902 is 5 V.

[6] The output voltage of U900 and U901 is 3.3 V.

[7] The output voltage of U903 is 1.8 V.

[8] The output voltage of U919 is 1.6 V.

6.2 GPS Circuit



Description of normal situations:

[1] The satellite signal is received properly.

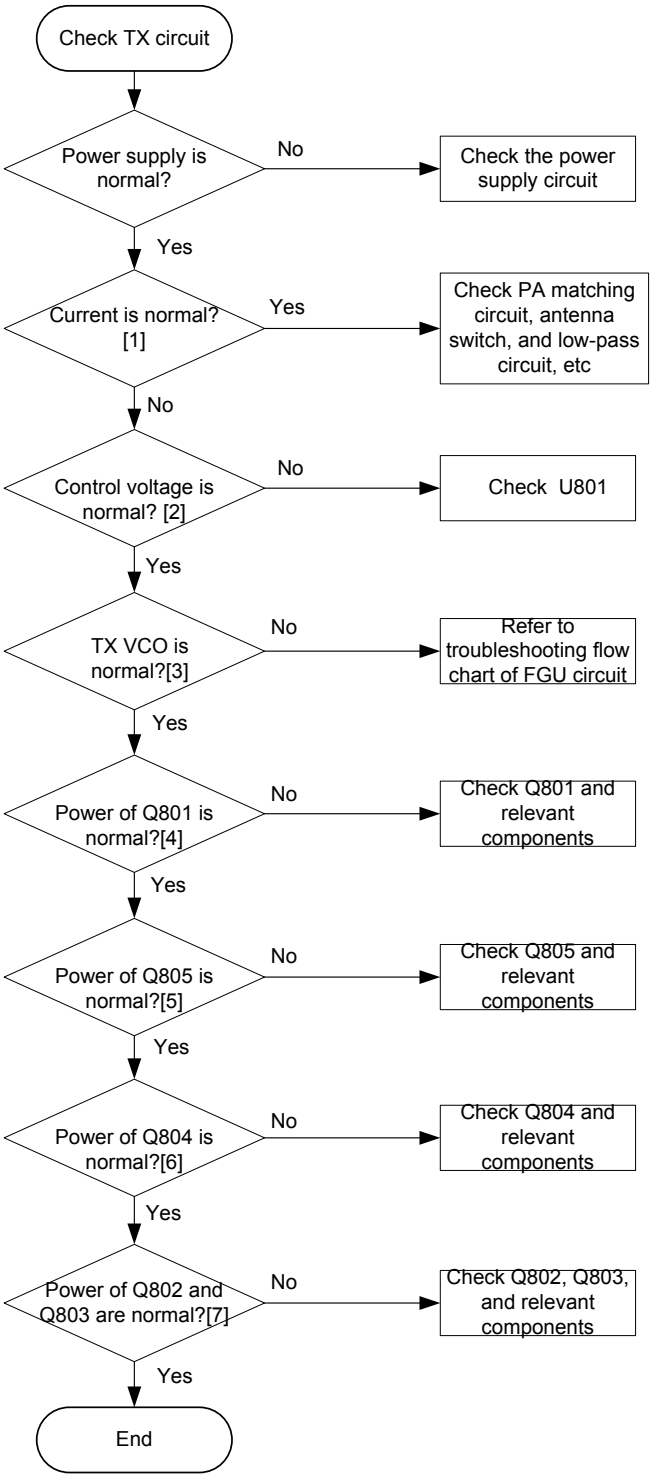
[2] The sensitivity is less than -130 dBm.

[3] Voltage at SMA of GPS antenna connector ranges from 3.2 to 3.35 V.

[4] The output voltage of U901 is 3.3 V.

[5] R368 and R370 have no soldering defects.

6.3 TX Circuit



Description of normal situations:

[1] In analog mode, the current is above 4 A under 25 W, above 7 A under 45 W, and 1 A under 5 W. However, in digital mode, the current will be reduced by 50%.

[2] The voltage at TP811 is above 2 V.

[3] The output amplitude of the TX LO signal at TP803 is about 10 dBm. Make sure that the back-end circuit is disconnected during test.

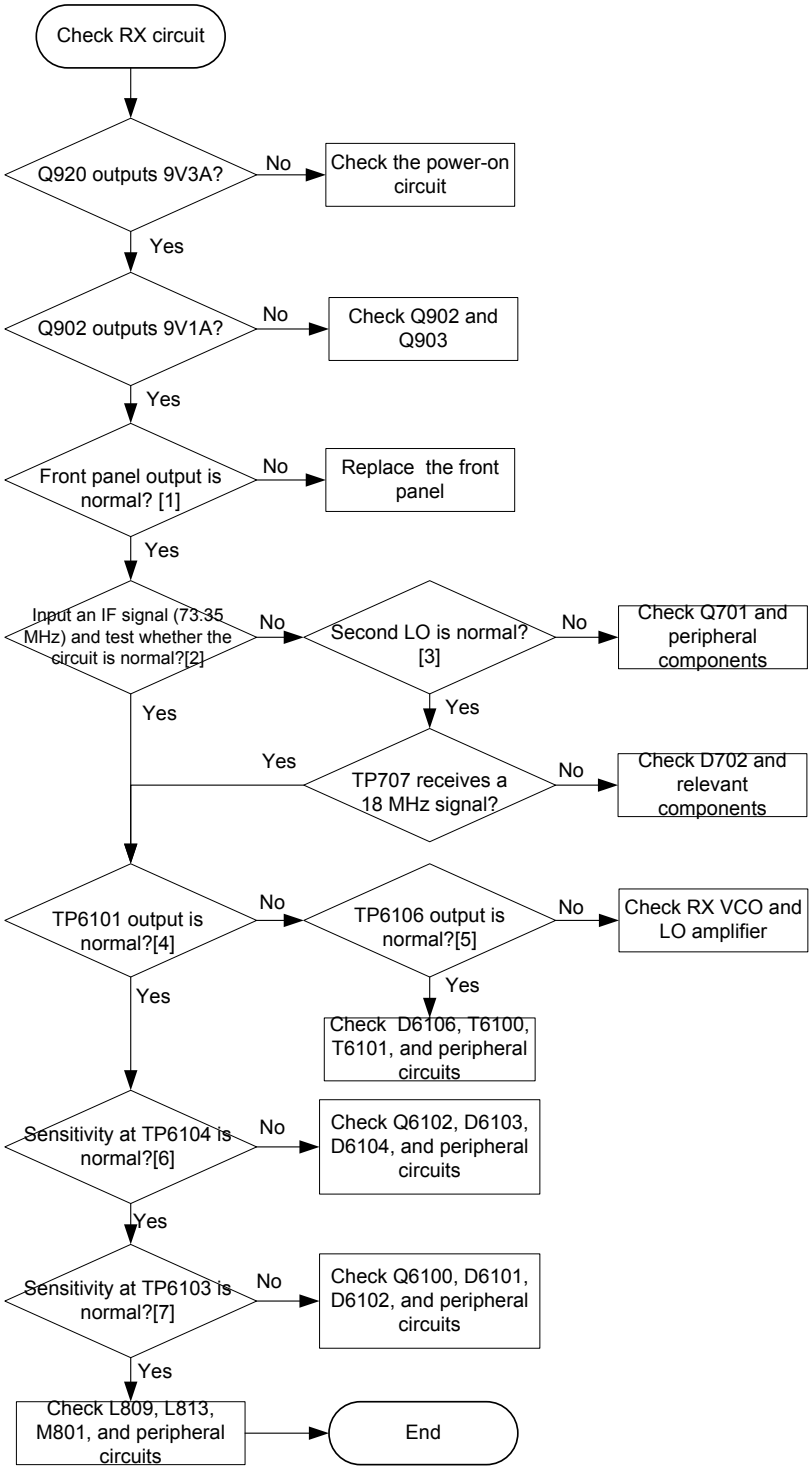
[4] The gain is 16 dB and the input signal is 0 dBm at Q801.

[5] The gain is 15 dB and the input signal is 0 dBm at Q805.

[6] The gain is 11 dB and the input signal is 0 dBm at Q804.

[7] The gain is 10 dB and the input signal is 0 dBm at Q802 and Q803.

6.4 RX Circuit



Description of normal situations:

[1] During sensitivity test, use a communication test set to demodulate the audio signal at TP4012 and TP4016. If the signal is demodulated normally, it is concluded that the front panel is defective.

[2] Use the communication test set to apply a 73.35 MHz IF signal at the mixer, and sensitivity is about -110 dBm.

[3] There is a second LO signal (71.1MHz) at TP704.

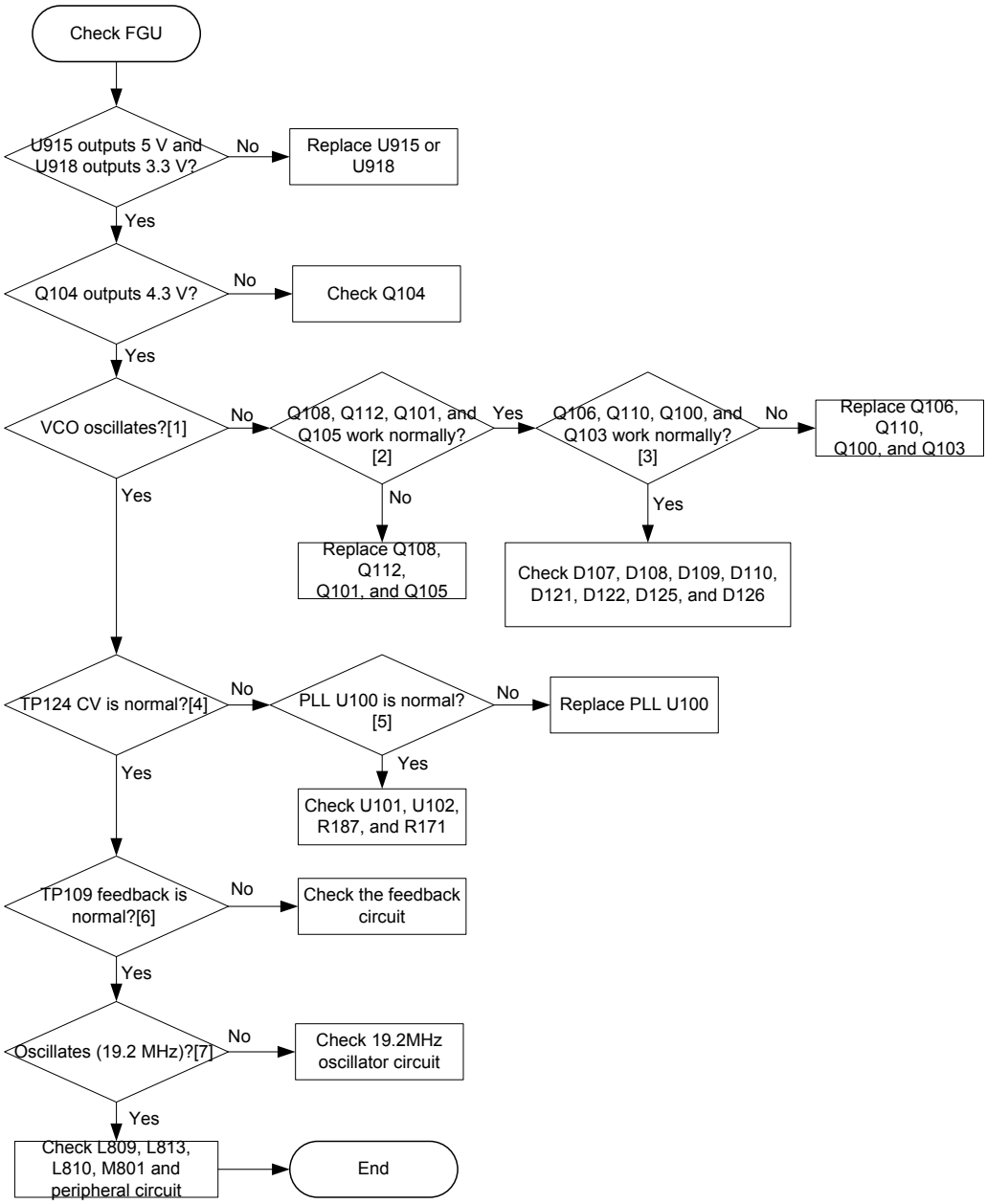
[4] The sensitivity at TP6101 is about -110 dBm.

[5] The received LO signal at TP6106 is about 18 dBm.

[6] The sensitivity at TP6104 is about -120 dBm.

[7] The sensitivity at TP6103 is -117 dBm.

6.5 Frequency Generation Unit (FGU)



Description of normal situations:

[1] The oscillation frequency of RX TP123 and TX TP111 can be detected.

[2] Q101, Q105, Q108, and Q112 are turned on and output about 3.6 V.

[3] The emitter voltage of Q106, Q110, Q100 and Q103 is about 1.8 V.

[4] The CV of TP124 ranges from 0.5 V to 4.5 V.

[5] PLL U100 is supplied by 5 V and 3.3 V normally.

[6] The power of the signal from TP109 to PLL is about -15 dBm.

[7] TP110 outputs 19.2 MHz signal.

7. Interface Definition

7.1 10-Pin Connector

The 10-pin connector on the front panel is used for audio accessories or data cable connection. The definition of each pin is described as below.

Pin No.	Name	Type	Signal Electrical Performance	Description
1	Accessory identification interface 1	Digital input	3.3 V CMOS	Pin 1 and Pin 10 (accessory identifier interface 2) compose an accessory identification matrix. Please refer to the "10-pin Accessory Identification Matrix Table" below for detailed function definitions.
2	PTT input	Digital input	3.3 V CMOS	PTT input for the palm microphone, which is valid at low level.
3	External audio output	Analog output	Load impedance >1 kΩ Vrms=600mV±10%@1 kHz 60% system max. deviation	Accessory audio output. When "Mic Audio Output" is selected via CPS, this pin will output the received audio signal.
4	USB_D-	USB data cable-	USB data	When this pin is used for USB function, USB function of DB26 will be disabled.
5	GND	Ground cable	/	/
6	USB_VBUS	USB power supply	Power supply: 5 V; current limiting: 500 mA	This pin provides power supply to the USB accessory. It outputs a 5 V voltage when accessory identification code is 00|01|10, and outputs low level when the code is 11.

Pin No.	Name	Type	Signal Electrical Performance	Description
7	Mic input	Analog input	Modulation sensitivity Vrms=80mV±10%@1kHz 60%system max. deviation	Mic input for palm microphone
8	USB_D+	USB data cable+	USB data	When this pin is used for USB function, USB function of DB26 will be disabled.
9	HOOK	Digital input	3.3V CMOS	High level by default; valid at low level. HOOK and MONITOR functions: Press this key, the level changes from high to low. When palm microphone is detected or press the key of the palm microphone, this pin is used for HOOK function; when desktop microphone is detected, this pin is used for MONITOR function.
10	Accessory identification interface 2	Digital input	3.3V CMOS	Pin 1 and Pin 10 (accessory identifier interface 1) compose an accessory identification matrix. Please refer to the "10-pin Accessory Identification Matrix Table" below for detailed function definitions.

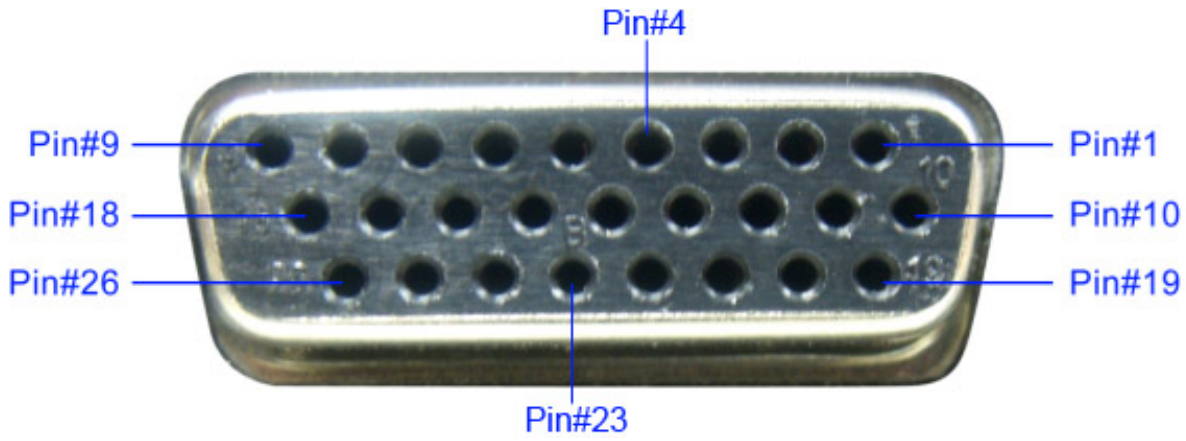
10-pin Accessory Identification Matrix Table (composed of Pin 1 and Pin 10):

Pin 1	Pin 10	Radio Status
Low level	Low level	Reserved
Low level	High level	The mobile radio is in USB master mode or connected to a USB smart accessory (such as palm microphone with keypad).
High level	Low level	The mobile radio is connected to an external speaker (including

Pin 1	Pin 10	Radio Status
		desktop microphone with earpiece).
High level	High level	The mobile radio is in USB slave mode, or it is not connected to any accessory, or it is connected to a palm microphone without keypad.

7.2 DB26 Accessory Interface

DB26 accessory interface, namely the 26-pin further development interface on the rear panel, is mainly used for accessory connection of mobile radio, or compatibility with other interfaces. Users can further develop the radio via this interface. The figure and definition of each pin is as follows.



Pin No.	Name	Type	Signal Electrical Performance	Description
1	Vbus USB power supply	Power output	Power supply: +5V; current limiting: 500 mA	Pin 1 and Pin 10 (accessory identification interface 2) compose an accessory identification matrix. This pin outputs a 5 V voltage when accessory identification code is 00|01|10, and outputs low level when the code is 11.
2	Ground	Power supply (grounding)	/	/
3	GP5_3 (Chan_Act)	GPIO	5V TTL	GPIO. Programmable via CPS.
4	SWB+	Power	Power supply :13.2V±15%;	Power output: 13.2 V; output

Pin No.	Name	Type	Signal Electrical Performance	Description
		output	output current ≤1 A	current: ≤1 A
5	External Alarm	Analog voltage output	13 V alarm output	Programmable output pin (“External Horn & Lights” feature by default, programmable via CPS).
6	Power Ground	Power supply (grounding)	/	/
7	TX Audio	Analog signal input	Vrms=80 mV±10%@1 kHz 60% system max. deviation	This pin is used for signal input of external MIC. The audio path is valid when the external Mic PTT is held down.
8	RX Audio	Analog signal output	Load impedance>1kΩ Vrms=300 mV±10%@1 kHz 60% system max. deviation	Default output is 300 mV. The output signal amplitude can be changed by modifying the “Analog RX Gain” value via CPS.
9	SPK-	Analog output	It forms differential output together with SPK+. Max power output: 10 W(R=8 Ω)	External speaker output-
10	D+	USB data cable+	USB data	USB data cable+
11	USB_GROUND	Ground cable	/	/
12	GP5_2 (Monitor)	GPIO	5V TTL	GPIO. Programmable via CPS; Monitor feature by default.
13	ACC_IO2	Digital input	5V TTL	Accessory identification interface; high level by default. This pin and Pin 15 (ACC_IO3) can compose three accessory identification

Pin No.	Name	Type	Signal Electrical Performance	Description
				statuses. Please refer to the "DB26 Accessory Identification Matrix Table" below for detailed function definitions.
14	Emerg Sw	Digital input	5V TTL	Emergency switch. This pin is valid when low level is input.
15	ACC_IO3	Digital input	5V TTL	Accessory identification interface; high level by default. This pin and Pin 13 (ACC_IO2) can compose three accessory identification statuses. Please refer to the "DB26 Accessory Identification Matrix Table" below for detailed function definitions.
16	PRGM_IN_PTT	Digital input	5V TTL	Programmable input pin (**PTT** key of external Mic by default; its function is programmable via CPS). It is valid at low level.
17	Audio Ground	Audio (grounding)	/	/
18	SPK+	Analog signal output	It forms differential output together with SPK-. Max power output: 10 W(R=8 Ω)	External speaker output+
19	D-	USB data cable-	USB data	USB data cable-
20	GP5_8	Digital input/output	5V TTL	GPIO. Programmable via CPS.
21	Ground	Ground cable	/	/

Pin No.	Name	Type	Signal Electrical Performance	Description
22	GP5_7	Digital input/output	5V TTL	GPIO. Programmable via CPS.
23	GP5_6	Digital input/output	5V TTL	GPIO. Programmable via CPS.
24	AUX Audio Out 1	Analog output	Load impedance >1 kΩ Vrms=300 mV±10%	Auxiliary audio (external speaker) output 1
25	AUX Audio Out 2	Analog output	Load impedance >1 kΩ Vrms=300 mV±10%	Auxiliary audio (external speaker) output 2
26	Ign Sense Detect Pin	Analog voltage input	Ignition voltage input >7 V	Input pin for ignition voltage

Note

When a pin is marked with 5 V TTL level, this pin has the pull-up function. If the pin needs to be set to high level, empty this pin.

DB26 Accessory Identification Matrix Table (composed of Pin 13 and Pin 15):

Pin 13	Pin 15	Radio Status
High level	High level	Default status. The mobile radio is in USB slave mode or not connected to any accessory.
High level	Low level	The mobile radio is in USB master mode or connected to a USB smart accessory (such as palm microphone with keypad).
Low level	High level	The mobile radio is connected to an external speaker (including desktop microphone with earpiece).
Low level	Low level	Reserved

7.3 Other Interfaces

J2 (LCD Display Interface)

Pin No.	Name	Description
1	GND	Grounding pin
2	VCI	2.5 – 3.3 V adjustable port

Pin No.	Name	Description
3	VCI	2.5 – 3.3 V adjustable port
4	IOVCC	1.65 – 3.3 V adjustable I/O port
5	FLM	Synchronization signal control port
6	CS	Chip select signal
7	RS	Register select
8	WR	Write signal
9	RD	Read signal
10	DB0	Data bus
11	DB1	
12	DB2	
13	DB3	
14	DB4	
15	DB5	
16	DB6	
17	DB7	
18	DB8	
19	DB9	
20	DB10	
21	DB11	
22	DB12	
23	DB13	
24	DB14	
25	DB15	
26	DB16	
27	DB17	

Pin No.	Name	Description
28	RESET	Reset signal
29	IM3	Select data cable
30	IM0	
31	LEDA	LED anode
32	LED_K1	LED cathode
33	LED_K2	
34	LED_K3	

J4 (Aviation Interface of Front Panel)

Pin No.	Name	Description
1	ACC_IO1	Digital input
2	PTT_IN	Digital input
3	External_Audio	Analog output
4	USB_D-	USB data cable
5	GND	Ground cable
6	USB_VBUS	Power supply
7	MIC_IN	Analog input
8	USB_D+	USB data cable
9	HOOK	Hook signal input
10	ACC_IO2	Digital input

J400 (Option Board Interface)

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remark
1	GPIO1	GPIO	I/O	VIH MIN=0.7VDD VIL MAX=0. 3VDD VOH MIN=0.8VDD VOL MAX=0.22VDD	GPIO5: output signal of resetting the option board. GPIO4/GPIO5:
3	GPIO2				
5	GPIO3				
7	GPIO4		O		

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remark
9	GPIO5	RESET-OUT	O		Unidirectional output interfaces. They require their input resistances are greater than or equal to 47 kΩ.
11	UART-TX	UART	O		UART
13	UART-RX		I		
15	UART-CTS		I		
17	UART-RTS		O		
2	I2C –SDA	I2C	I/O		I2C
4	I2C -SCL		O		
6	MCBSP-DR	MCBSP	I		McBSP: Multi-channel buffered serial port
8	MCBSP-WCLK		I/O		
10	MCBSP-DX		O		
12	MCBSP-FSX		I/O		
14	AGND	AGND	/	/	/
16	AF OB TO MB	AF	I	80 mV (standard output from the option board to the main board)	MAX: 700 mV
18	AF MB TO OB	AF	O	80 mV (standard output from the main board to the option	MAX: 700mV

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remark
				board)	
19	DGND	DGND	/	/	/
20	3V6 or 5V	Power	O	Voltage: 5.0 V	/

J403 (Pin Interface)

Pin No.	Name	Description
1	Vbus USB	Power supply: +5 V
2	Ground	Ground cable
3	GP5_3	Digital input/output
4	SW B+ sense	Power supply
5	External Alarm	Analog voltage output
6	Power Ground	Power supply (grounding)
7	Tx Audio	Analog input
8	RX Audio	Analog output
9	Spkr-	Analog output
10	D+ USB	USB data cable+
11	USB_GROUDN	Ground cable
12	GP5_2	Digital input/output
13	ACC_IO2	Digital input
14	Emerg Sw	Digital input
15	ACC_IO3	Digital input
16	PRGM_IN_PTT	Digital input
17	Audio Ground	Audio ground
18	Spkr+	Analog output
19	D- USB	USB data cable-
20	GP5_8	Input/output

Pin No.	Name	Description
21	Ground	Ground cable
22	GP5_7	Input/output
23	GP5_6	Digital input/output
24	AUX Audio Out 1	Analog output
25	AUX Audio Out 2	Analog output
26	Ign Sense	Analog voltage input

J404 (Front Panel Interface)

Pin No.	Name	Description
1	INT_MIC	Audio input
2	MIC_GROUND	Audio input (grounding)
3	ACC_IO1	Accessory identification interface 1
4	USB_VBUS	USB power supply
5	HOOK	HOOK
6	PTT	PTT
7	USB_D-	USB data cable D-
8	USB_D+	USB data cable D+
9	ACC_IO2	Accessory identification interface 2
10	UART2_RXD_A	Volume control port
11	UART2_TXD_B	/
12	EXTERNAL_AUDIO	Audio signal output by accessory (mobile radio)
13	SPKR1+	Speaker audio signal cable+
14	SPKR1-	Speaker audio signal cable-
15	5VD	Power supply
16	PRST	Reset signal

Pin No.	Name	Description
17	KB_C0	Matrix keyboard
18	KB_C1	
19	KB_C2	
20	KB_C3	
21	B_R0	
22	B_R1	
23	B_R2	
24	CSLED	Backlight control IC chip select
25	CLOC	Backlight control IC clock
26	DATA	Backlight control IC data
27	OE_LCD	LCD read enable
28	WE_LCD	LCD write enable
29	CS2_LCD	LCD chip select
30	F_A1_LCD	LCD register select enable
31	F_D7	LCD data bus
32	F_D6	
33	F_D5	
34	F_D4	
35	F_D3	
36	F_D2	
37	F_D1	LCD data bus
38	F_D0	
39	GND	Grounding
40	PWB_IN	Power On/Off signal

8. Tuning Description

8.1 Required Test Instruments

- Radio communication test sets: HP8921 and Aeroflex 3920
- Power supply: 15 A/30 V
- Multimeter
- Tuner software

8.2 Tuning Procedures

8.2.1 Tuning the Radio

After re-assembling the radio, you need to tune it with the Tuner software and HP8921.

The specific operations are described in the table below. After tuning the items of the current channel, you must switch the radio to the next channel; otherwise, the adjustments will not be saved to the radio properly.

Items	Method
TX Section	
Reference Oscillator Warp	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Reference Oscillator Warp” in the left navigation tree. Then click the “Transmit On” button. 3. Adjust the vernier on the Tuner until the frequency offset between the frequency displayed on HP8921 and the frequency (Tx) displayed on Tuner is less than or equals to ±40 Hz. 4. Click the “Save” button on Tuner to save the existing value to the radio. 5. Click the “Transmit Off” button on Tuner.
Transmit Power Calibration	Here takes the tuning of low TX power for example. 1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit Power Calibration” in the left navigation tree. Then select an appropriate channel.

Items	Method
	3. Click the “Transmit On” button on Tuner. 4. Adjust the power to the required level as follows: Low power: 1 W (for version D/F); 5 W (for version H or later) Medium power: 25 W High power: 45 W 5. Click the “Save” button on Tuner to save the existing value to the radio.
Transmit-to-Deviation	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Set the parameters on the HP8921 as follows: IF Filter: 230 kHz Filter1: <20 Hz HPF Filter2: <15 kHz LPF De-Emphasis: off 3. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit-to-Deviation” in the left navigation tree. Then click the “Transmit On” button. Then set the modulation signal of HP8921 to “100 Hz”. 4. Adjust the vernier on Tuner until the frequency deviation displayed on HP8921 is “5 kHz”. 5. Click the “Save” button on Tuner to save the existing value to the radio. 6. Click the “Transmit Off” button on Tuner.
Modulation Balance	Here takes the low frequency deviation for example. 1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Set the parameters on the HP8921 as follows: IF Filter: 230 kHz Filter1: <20 Hz HPF Filter2: <15 kHz LPF De-Emphasis: off 3. Open the Tuner software and go to “TUNE_DATA -> TX -> Modulation Balance” in the left navigation tree. Then select an appropriate channel. 4. Click the “Transmit On” button on Tuner. Then set the modulation signal

Items	Method
	of HP8921 to “100 Hz”. 5. Adjust the value in the dialog box on Tuner until the frequency deviation displayed on HP8921 is “5 kHz”. 6. Press the **Enter** key on the keyboard to confirm your settings. 7. Click the “Save” button on Tuner to save the existing value to the radio. 8. Click the “Transmit Off” button on Tuner.
Transmit Oscillator Voltage	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit Oscillator Voltage” in the left navigation tree. 3. Click the “Save” button to save the existing value to the radio.
RX Section	
Front-end Filter	1. Connect the radio to HP8921 via the antenna connector. 2. Connect the Audio Out port of the radio to the Audio In port of HP8921, and set HP8921 to RX test mode. 3. Set the parameters on the HP8921 as follows: Output RF signal: -118 dBm/Frequency (current channel frequency) Modulation frequency: 1 kHz Modulation deviation: 3 kHz 4. Open the Tuner software and go to “TUNE_DATA -> RX -> Front-end Filter” in the left navigation tree. Adjust the vernier on Tuner until the “SINAD” value displayed on HP8921 is greater than 14 dB. 5. Set the output RF signal of HP8921 to -25 Bm/ (current channel frequency -36.675 MHz). 6. Adjust the vernier on Tuner until the “SINAD” value displayed on HP8921 is less than 14 dB. 7. Press the **Enter** key on the keyboard to confirm your settings. 8. Click the “Save” button on Tuner to save the existing value to the radio.
Front-end Gain	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to RX test mode.

Items	Method
	2. Set HP8921 to output an unmodulated RF signal with a value of "-70 dBm/Frequency (current channel frequency)". 3. Press the **Enter** key on the keyboard to confirm your settings. 4. Click the "Save" button on Tuner to save the existing value to the radio.
Receive Oscillator Voltage	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to RX test mode. 2. Open the Tuner software and go to "TUNE_DATA -> RX -> Receive Oscillator Voltage" in the left navigation tree. 3. Set HP8921 to output an unmodulated RF signal with a value of "-47 dBm/Frequency (current channel frequency)". 4. Click the "Save" button to save the existing value to the radio.

8.2.2 Testing the Radio

After tuning all the items of the radio, you need to test the digital RF signal of the mobile radio via Aeroflex 3920 (Digital Radio Test set).

Transmitting

Step 1 Connect the mobile radio to Aeroflex 3920 via the antenna connector.

Step 2 Open the Tuner software and go to "TEST -> TX -> Transmit BER (0.153)".

Step 3 Select the channel to be tested and select the corresponding power level (High Power or Low Power) in "Parameter" on Tuner.

Step 4 Click the "Transmit On" button on Tuner.

Step 5 Set the parameters on the Aeroflex 3920 as follows:

- Frq: Be consistent with the TX frequency of the channel to be tested.
- STD IB 511: .153

Step 6 Observe the "avg" value of "UUT TX Bit Err" parameter in "UUT Measurements" module of Aeroflex 3920, which is the average bit error rate of the tested channel during transmitting.

The radio is operating properly when the Aeroflex 3920 parameters are as follows:

- FSK Error: ≤5%
- Symbol Clock Err: ≤100 Hz
- Signal Power: 3.9 – 4.5W
- Magnitude Error: ≤1%

- UUT TX Bit Err = 0%

Step 7 Click the “Transmit Off” button on Tuner to finish testing.

Receiving

Step 1 Connect the antenna connector of the radio to the RF port of Aeroflex 3920, and set Aeroflex 3920 as follows (remain default values for other parameters):

- Frq: Be consistent with the frequency of the channel to be tested.
- STD IB 511: .153
- Lv1 (signal strength): -116 dBm (-110 dBm by default)

Step 2 Open the Tuner software and go to “TEST -> RX -> Receiver BER (0.153)”.

Step 3 Select the channel to be tested and click the “Start” button on Tuner.

Step 4 Observe the “Average Rate” displayed on Tuner.

You can set different “Average Num” (the calculation base of BER, which is “10” by default) to obtain different “Average Rate”.

Step 5 Modify the value of “Lv1” parameter of Aeroflex 3920, so as to obtain the average BERs of the tested channel under different signal strengths.

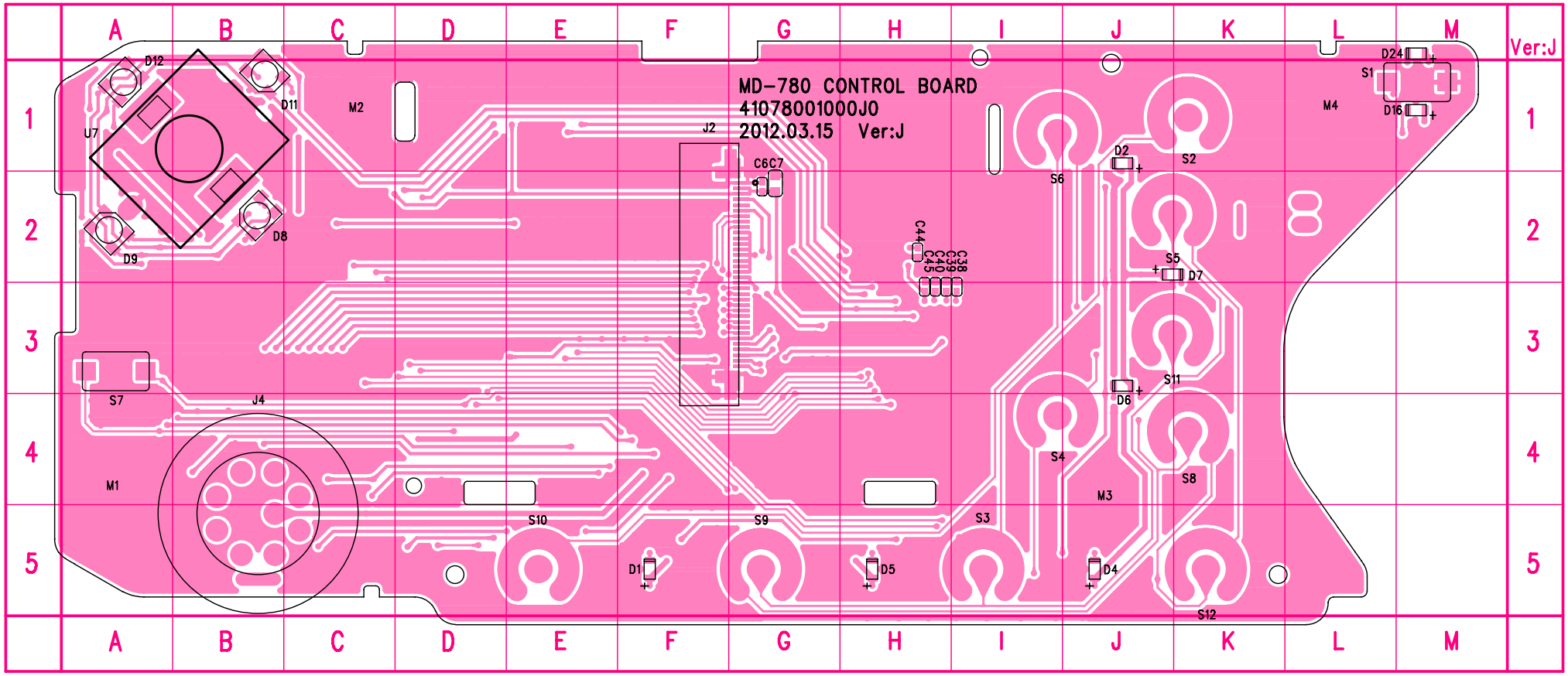
The mobile radio is operating properly when the average BER is less than 5%.

Note
When the parameter “Lv1” is set to “-110 dBm”, the mobile radio is operating properly when the average BER is less than 1%.

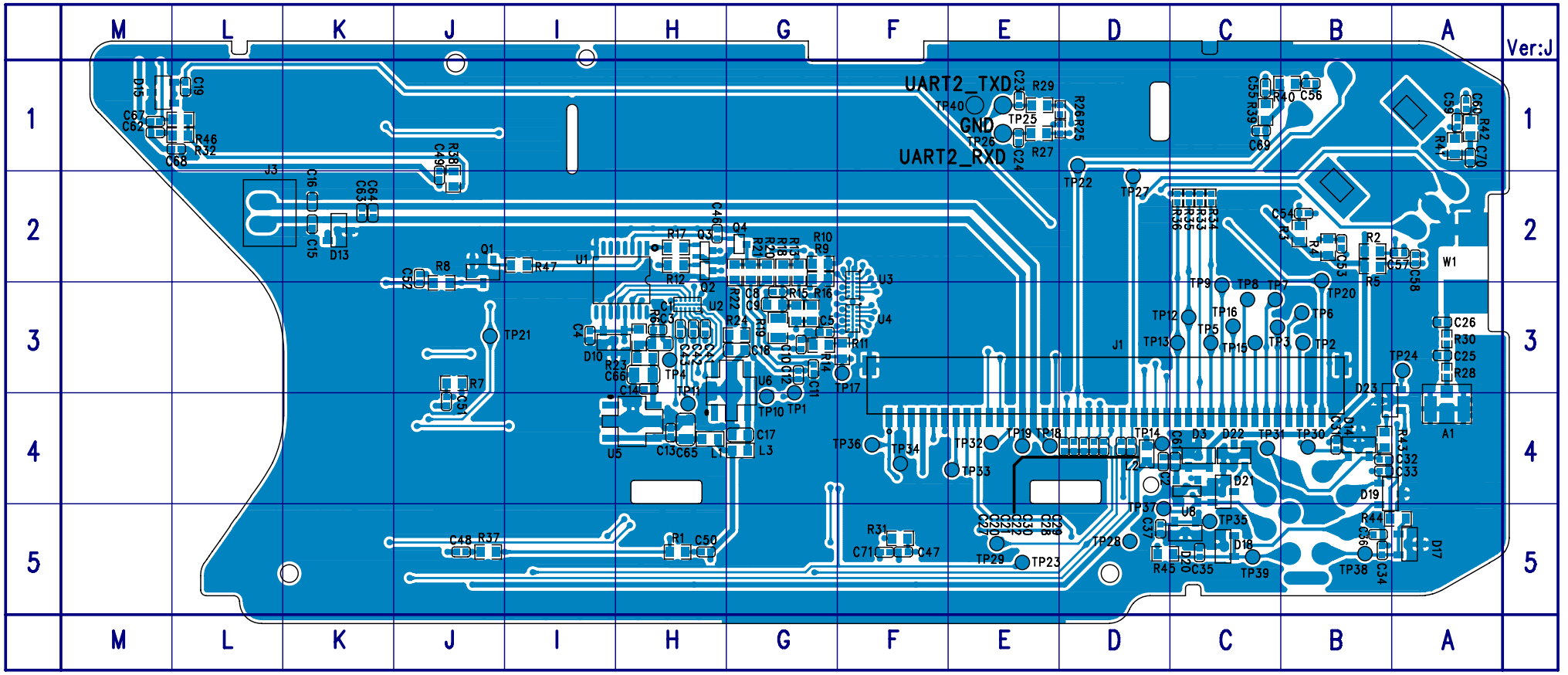
Step 6 Click the “Stop” button on Tuner to finish testing.

9. PCB View

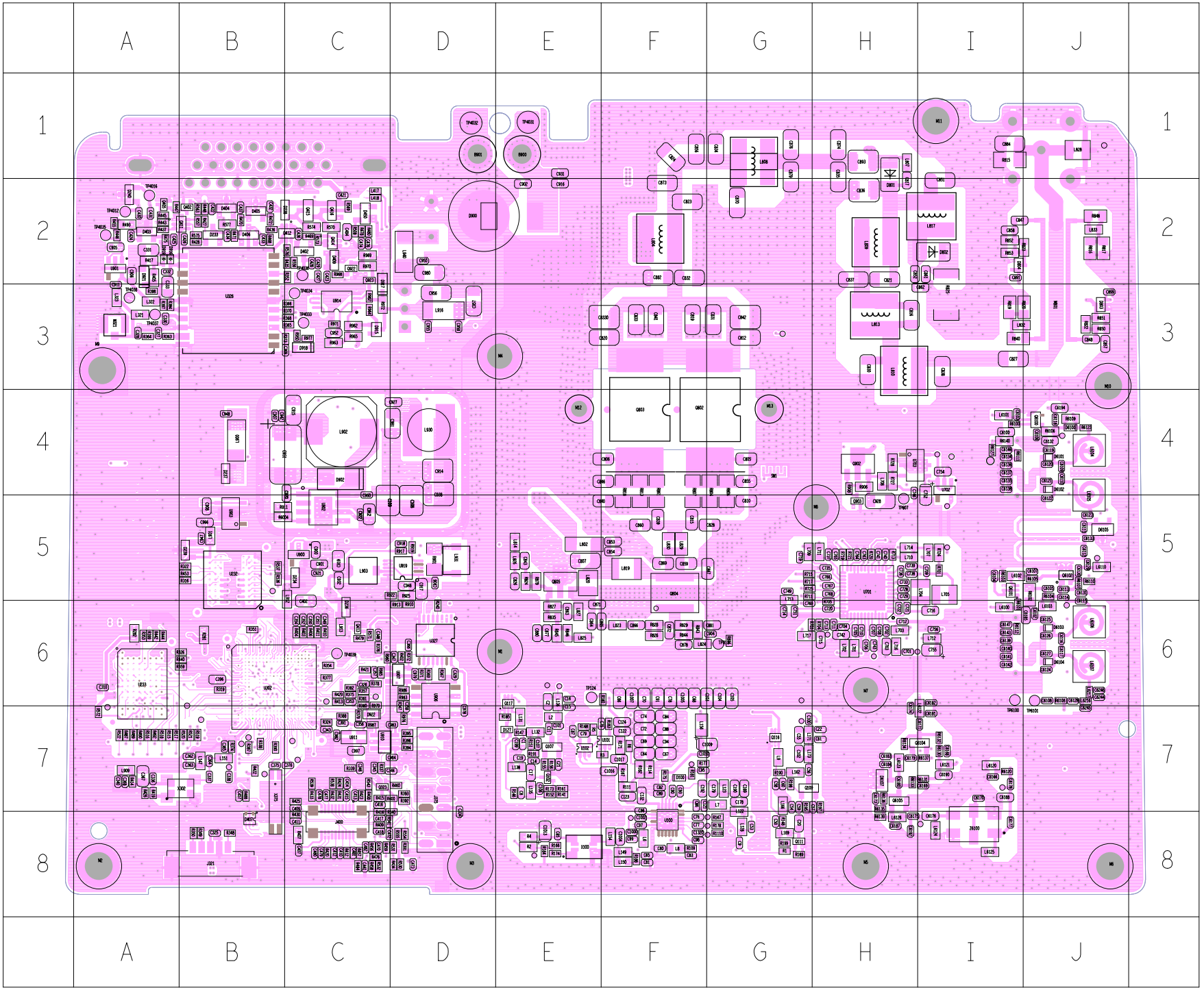
MD78X/MD78XG PCB View (Front Panel)
Top Layer



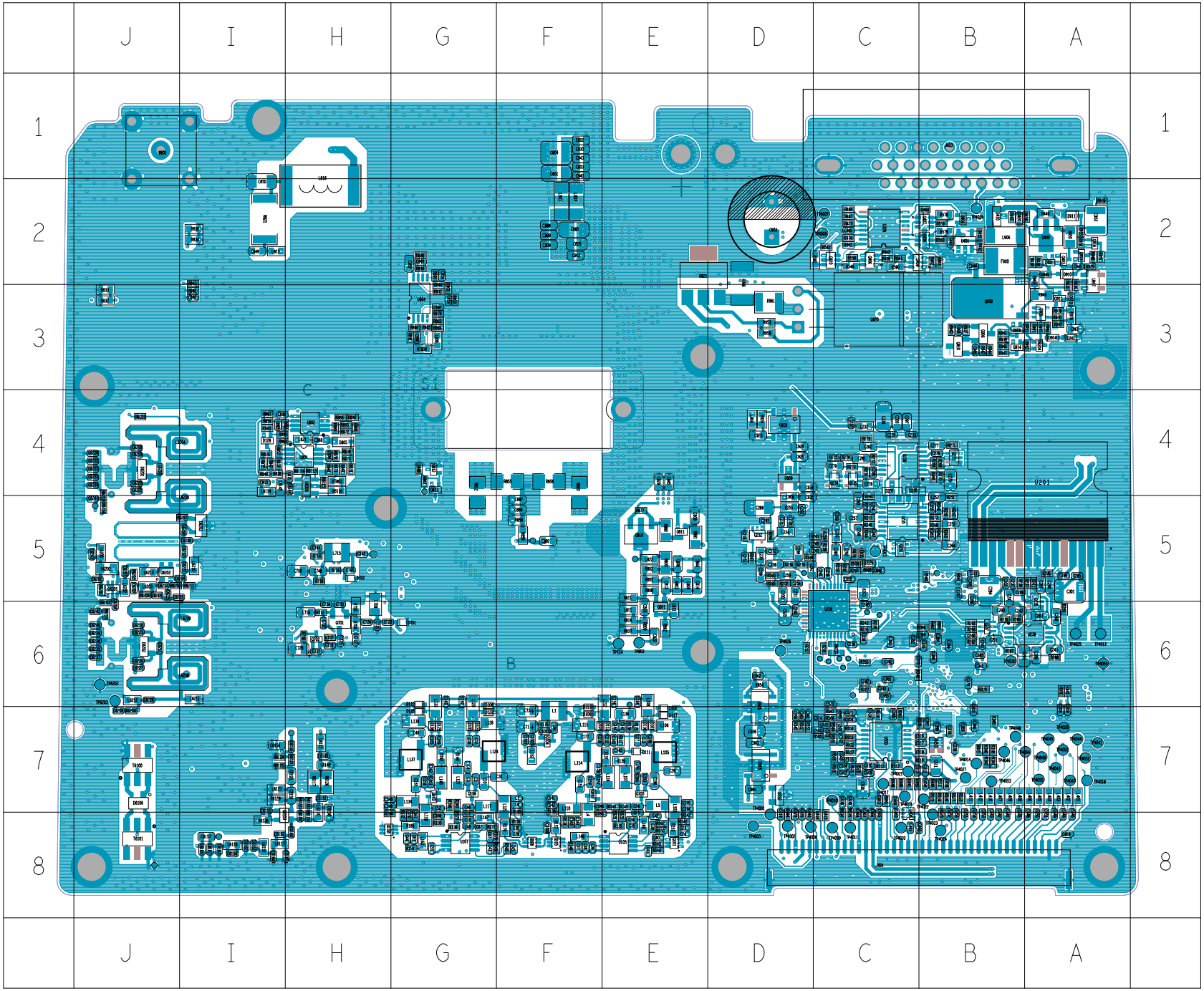
MD78X/MD78XG PCB View (Front Panel)
Bottom Layer



MD78X/MD78XG PCB View (Main Board) - Top Layer

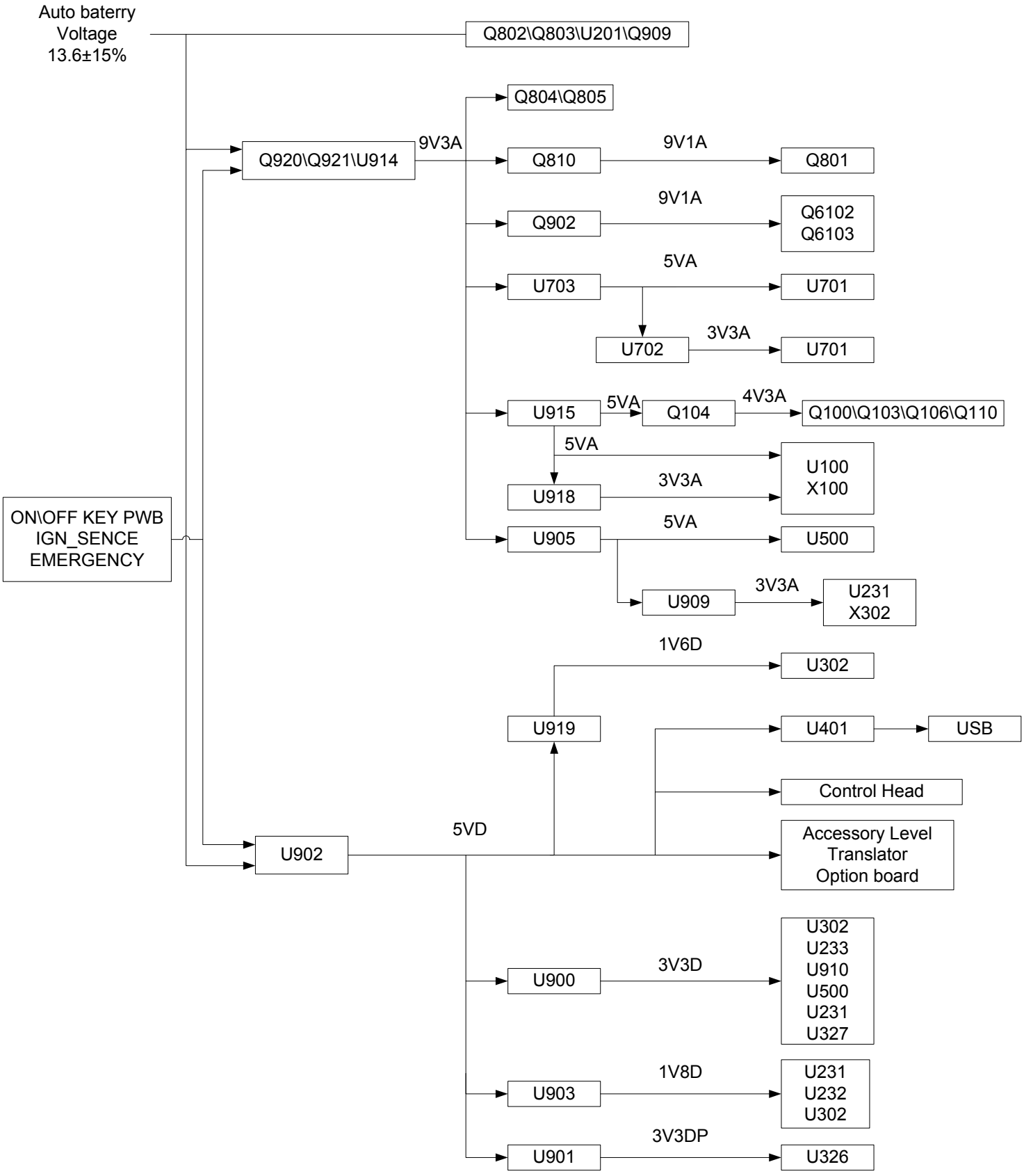


MD78X/MD78XG PCB View (Main Board)
Bottom Layer

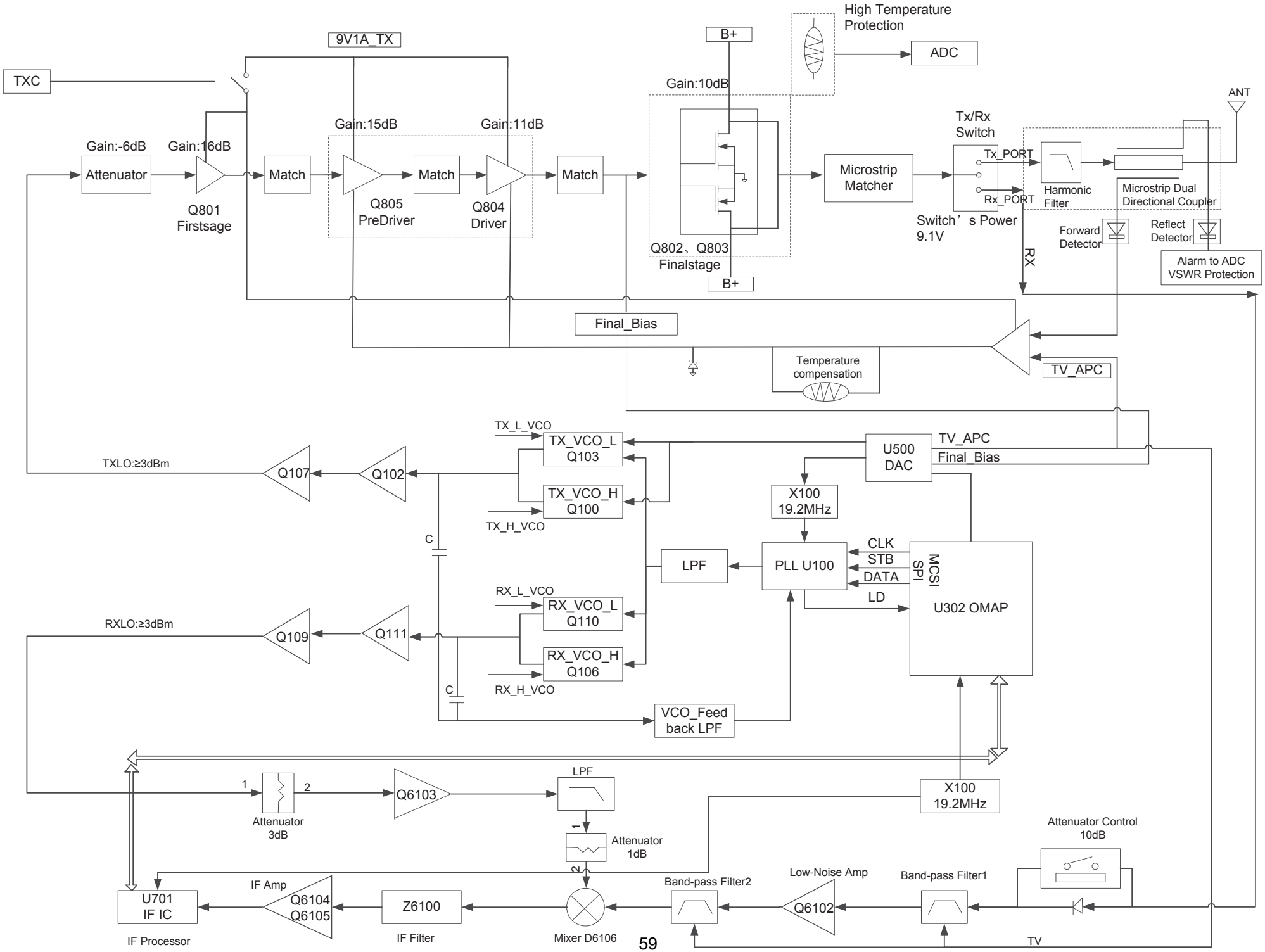


10. Block Diagram

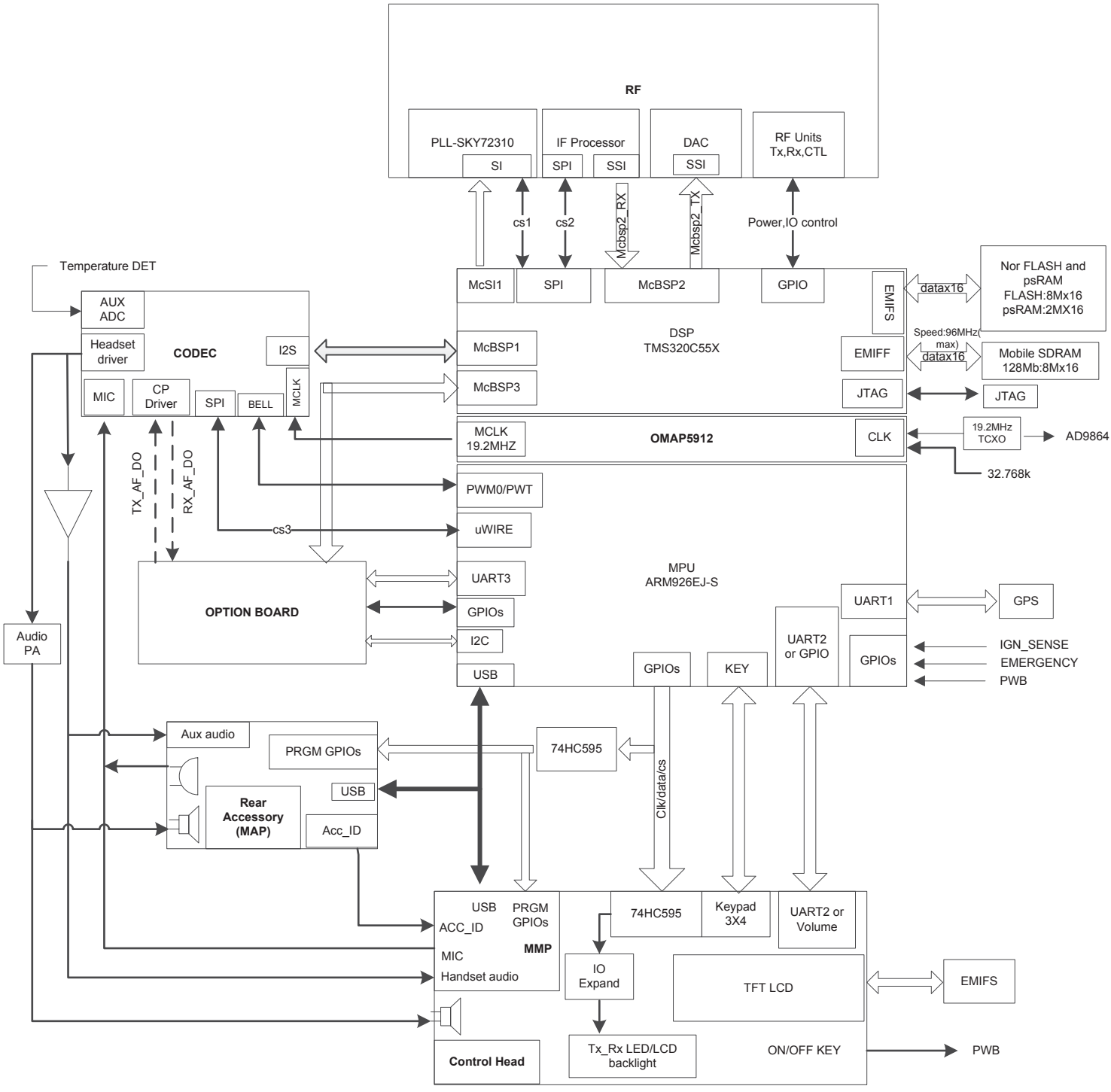
MD78X/MD78XG Block Diagram (Power Section)



MD78X/MD78XG Block Diagram (RF Section)

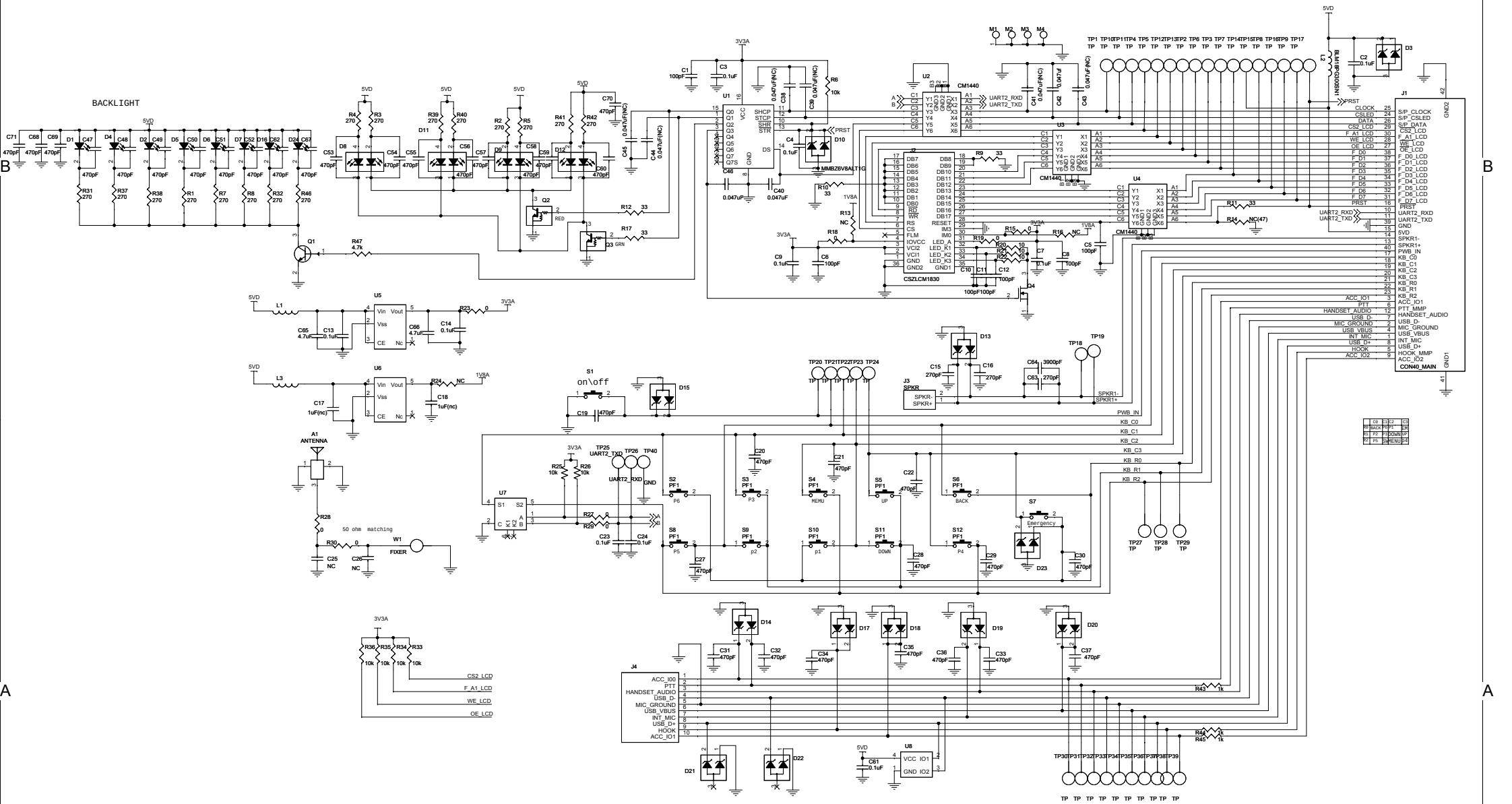


MD78X/MD78XG Block Diagram (Baseband Section)

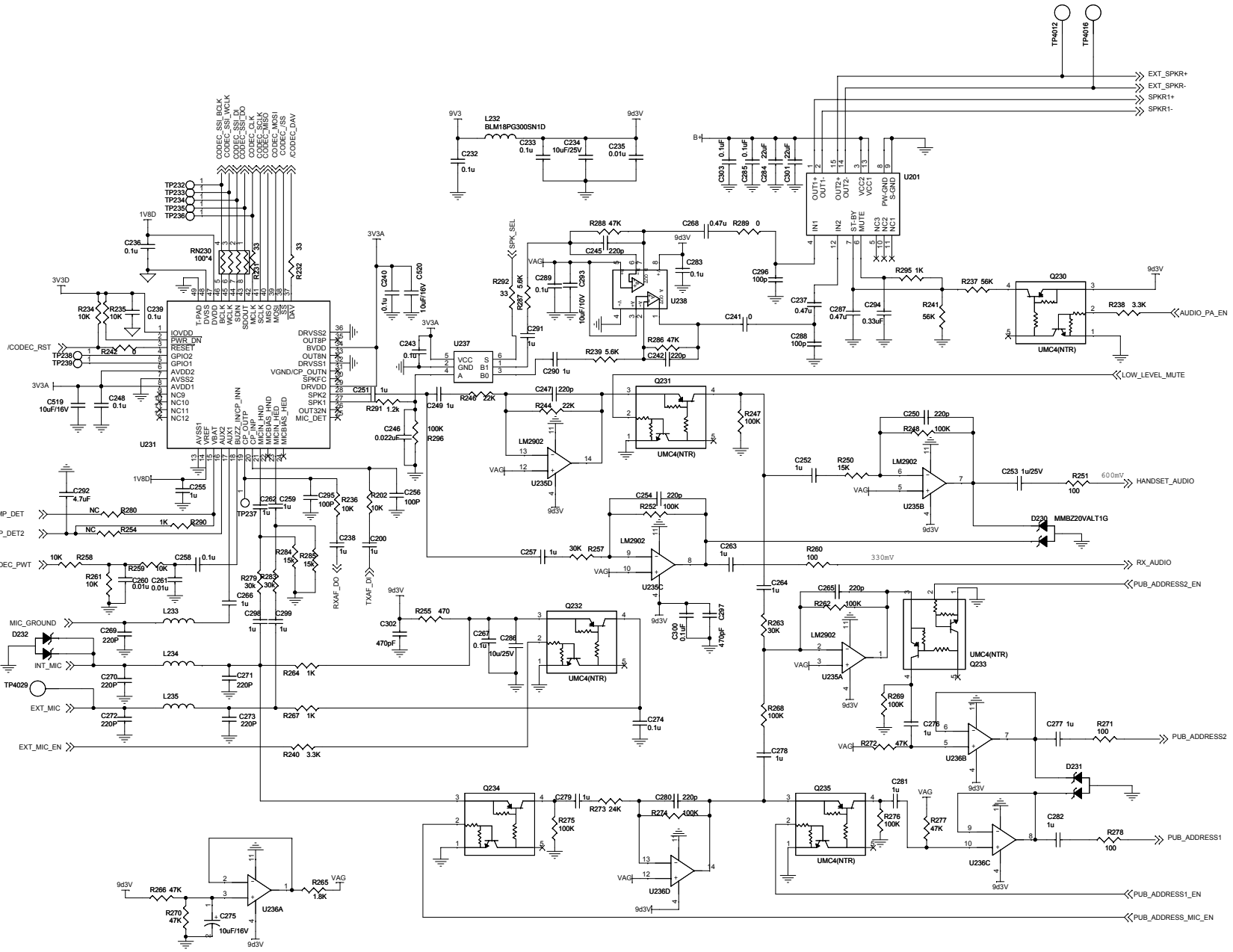


11. Schematic Diagram

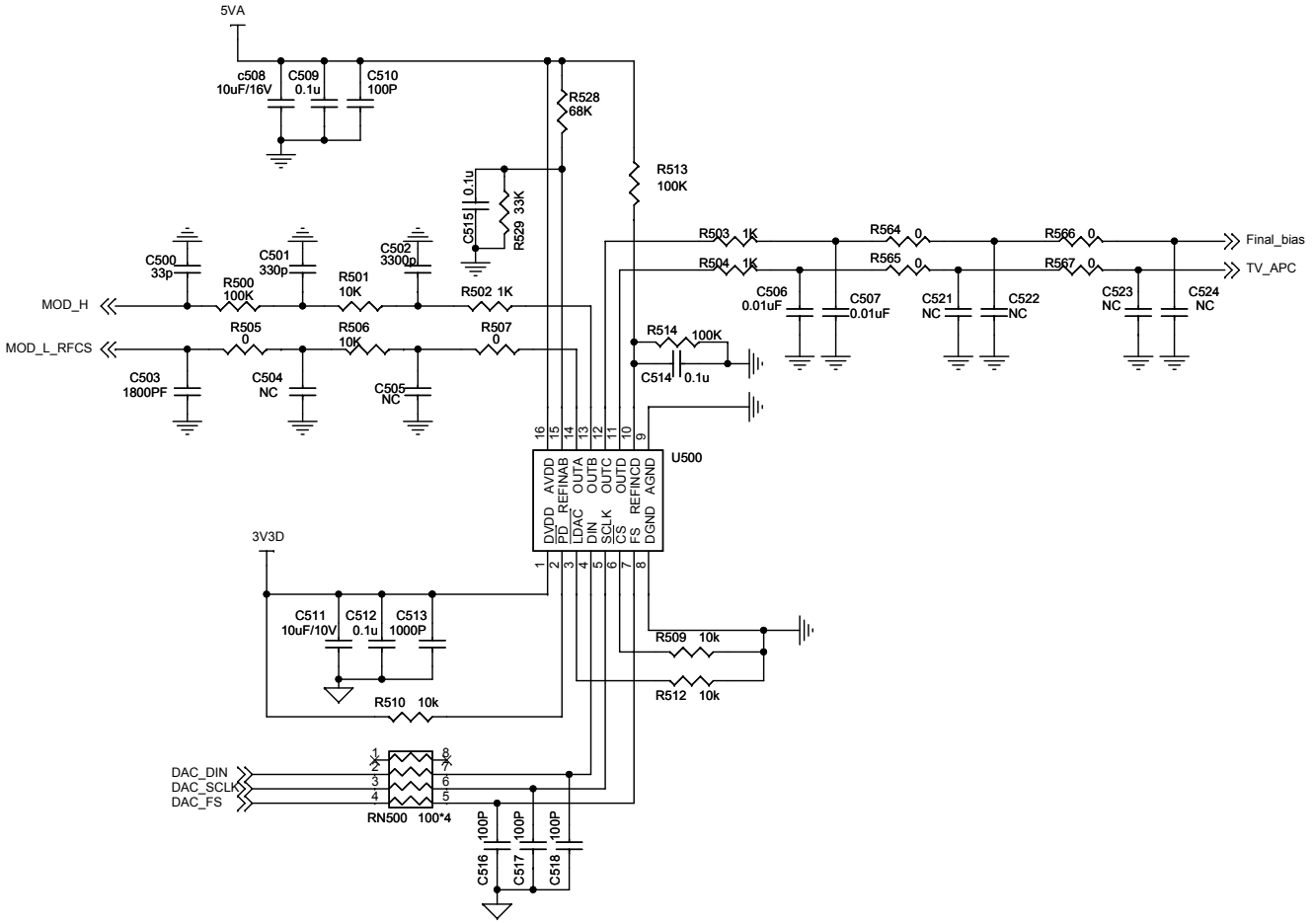
MD78X/MD78XG Schematic Diagram (Front Panel Circuit)



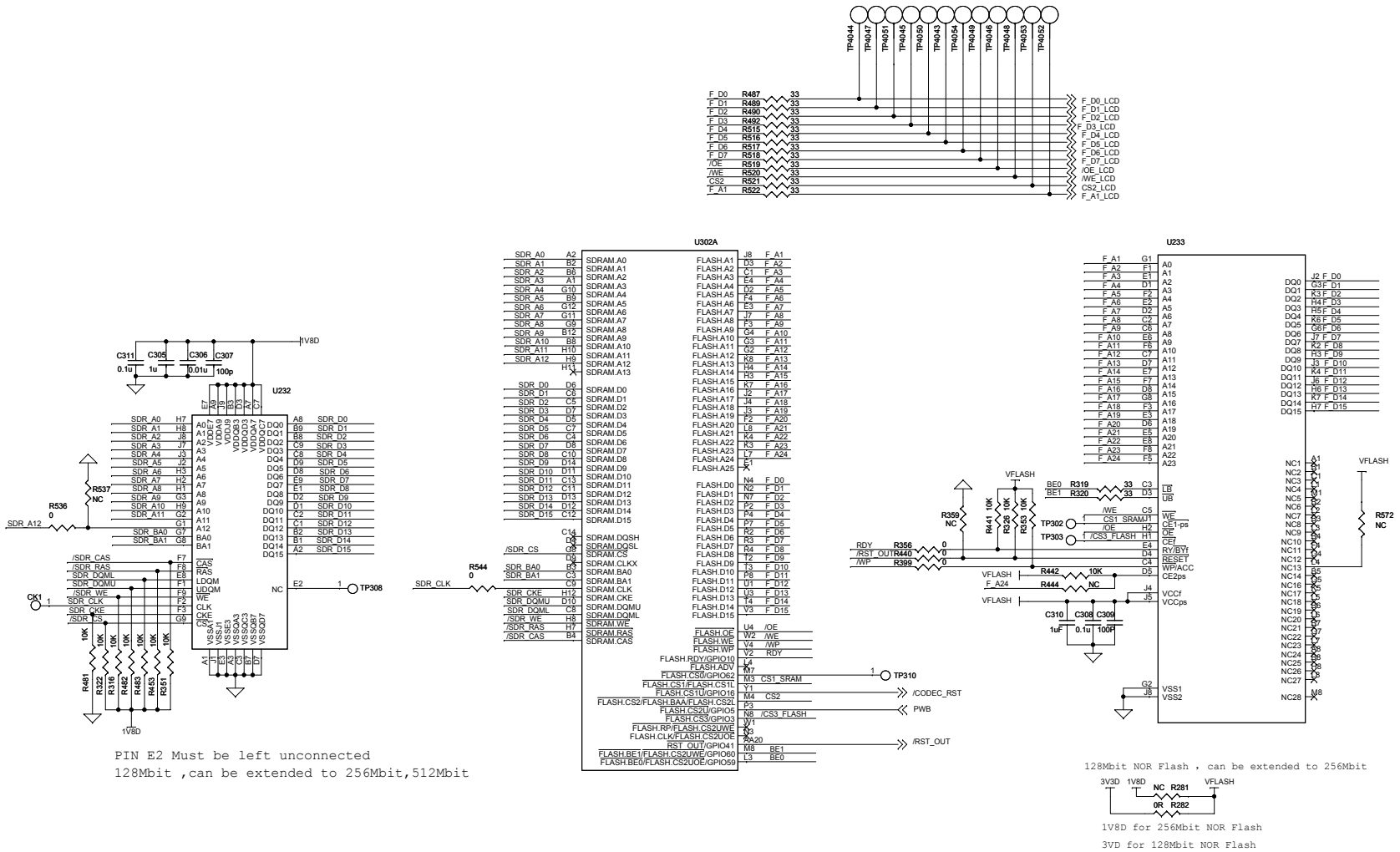
MD78X/MD78XG Schematic Diagram (Audio Circuit)



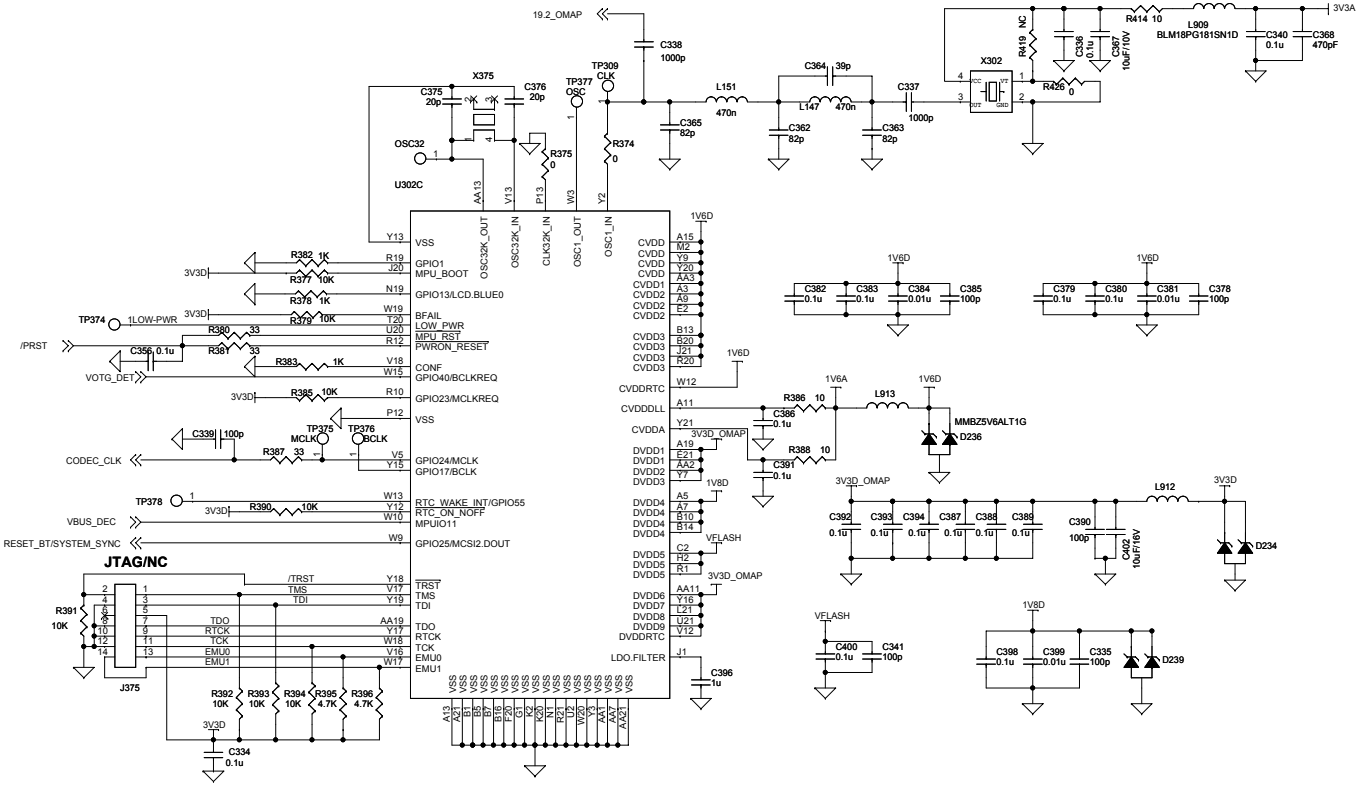
MD78X/MD78XG Schematic Diagram (DAC Circuit)



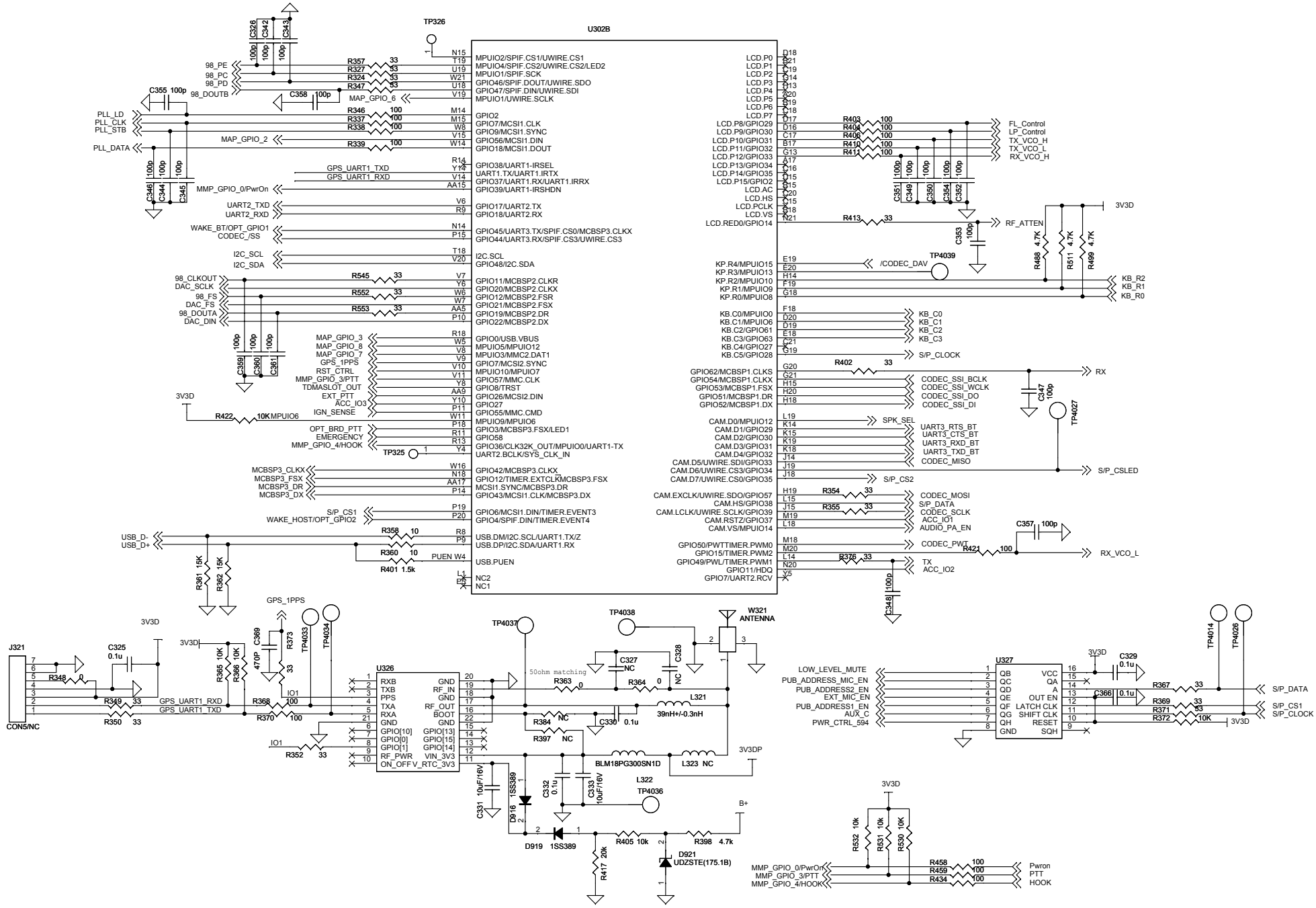
MD78X/MD78XG Schematic Diagram (Memory Circuit)



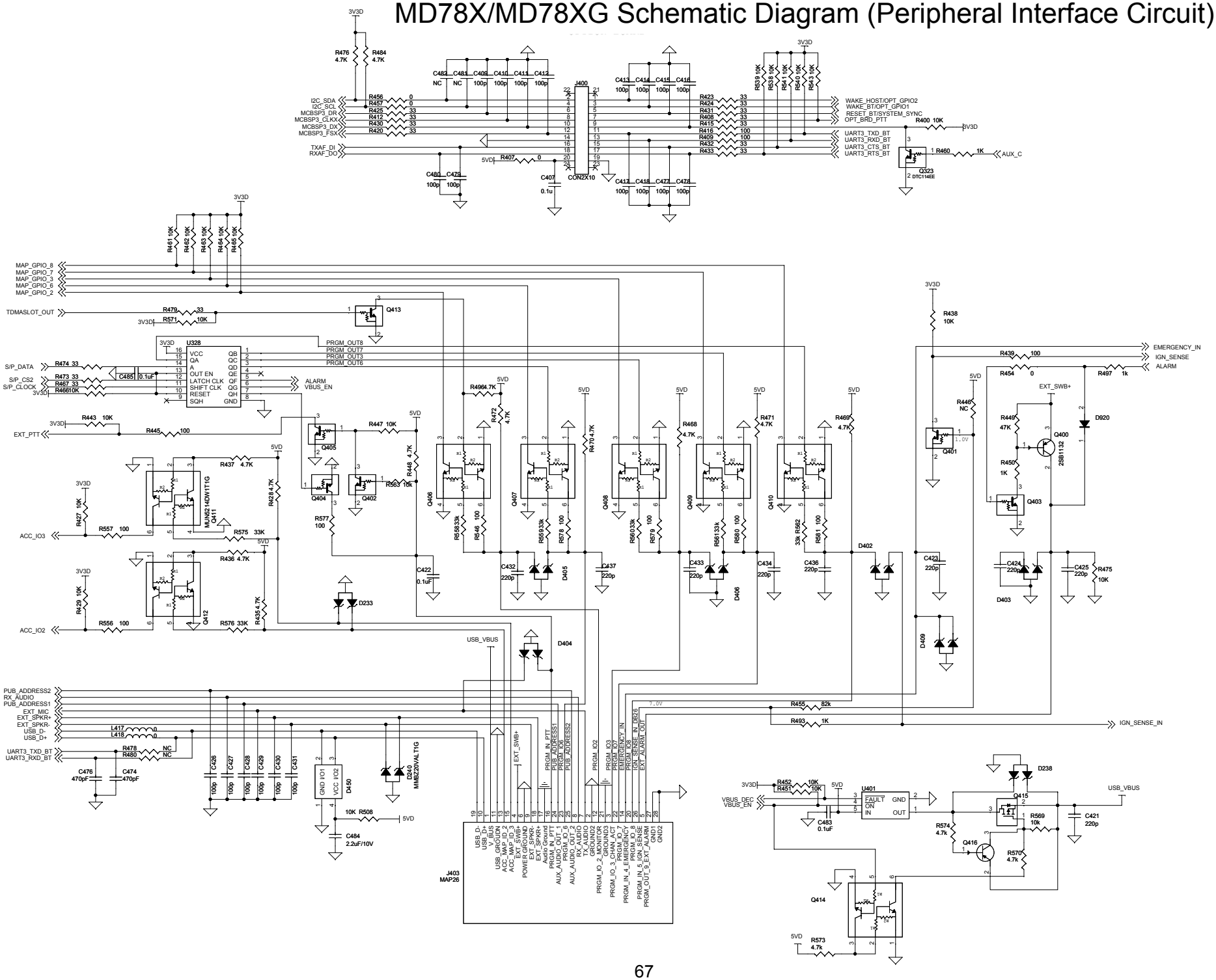
MD78X/MD78XG Schematic Diagram (OMAP Circuit)



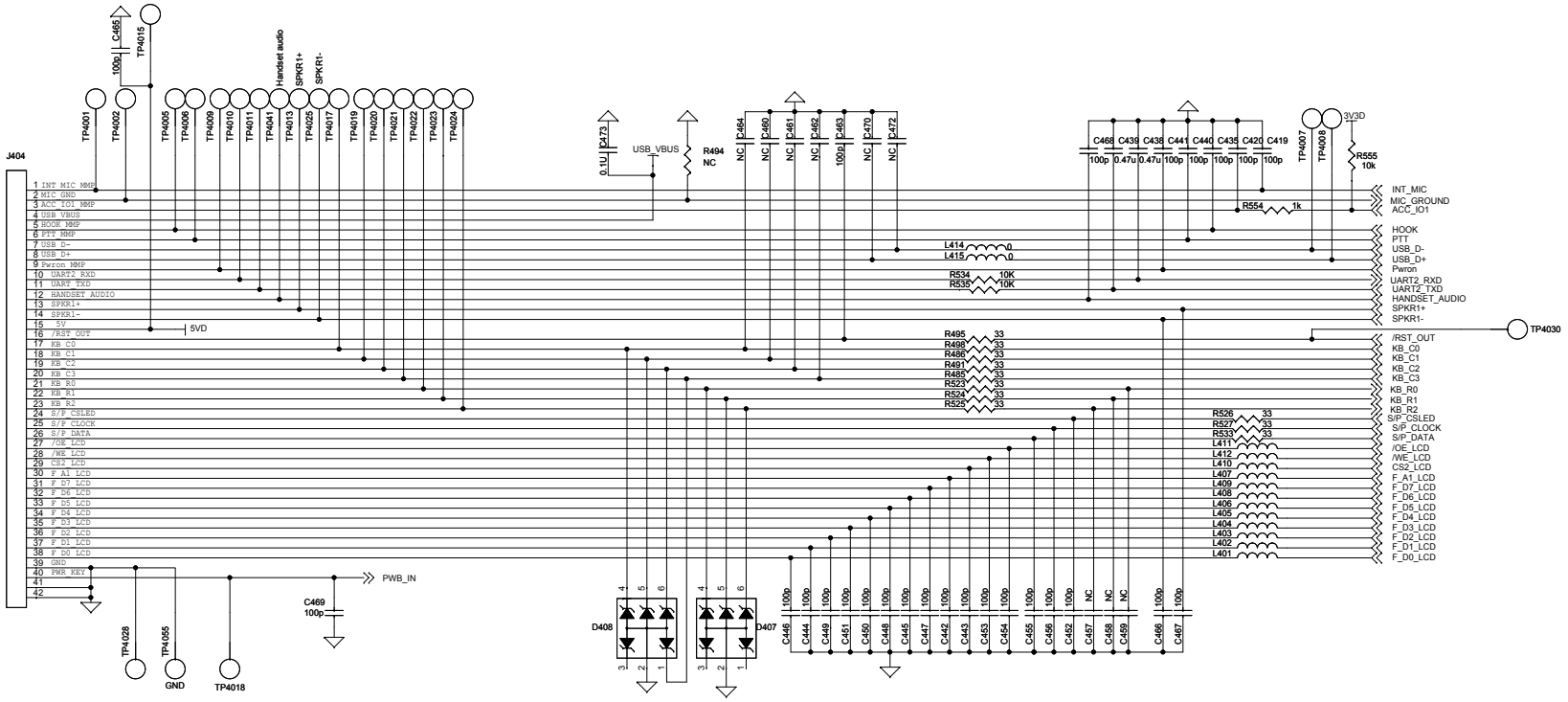
MD78X/MD78XG Schematic Diagram (OMAP & GPS Circuit)



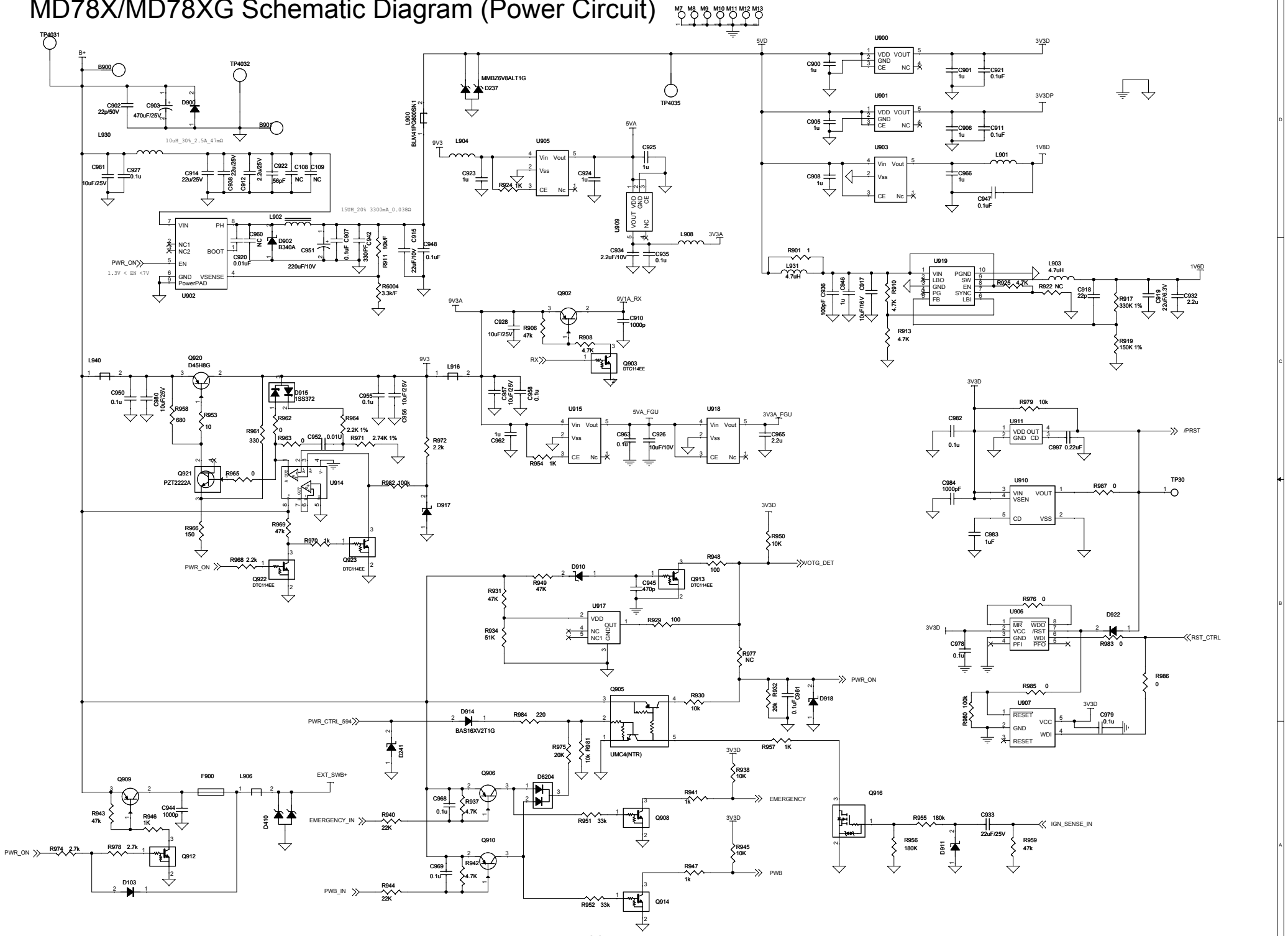
MD78X/MD78XG Schematic Diagram (Peripheral Interface Circuit)



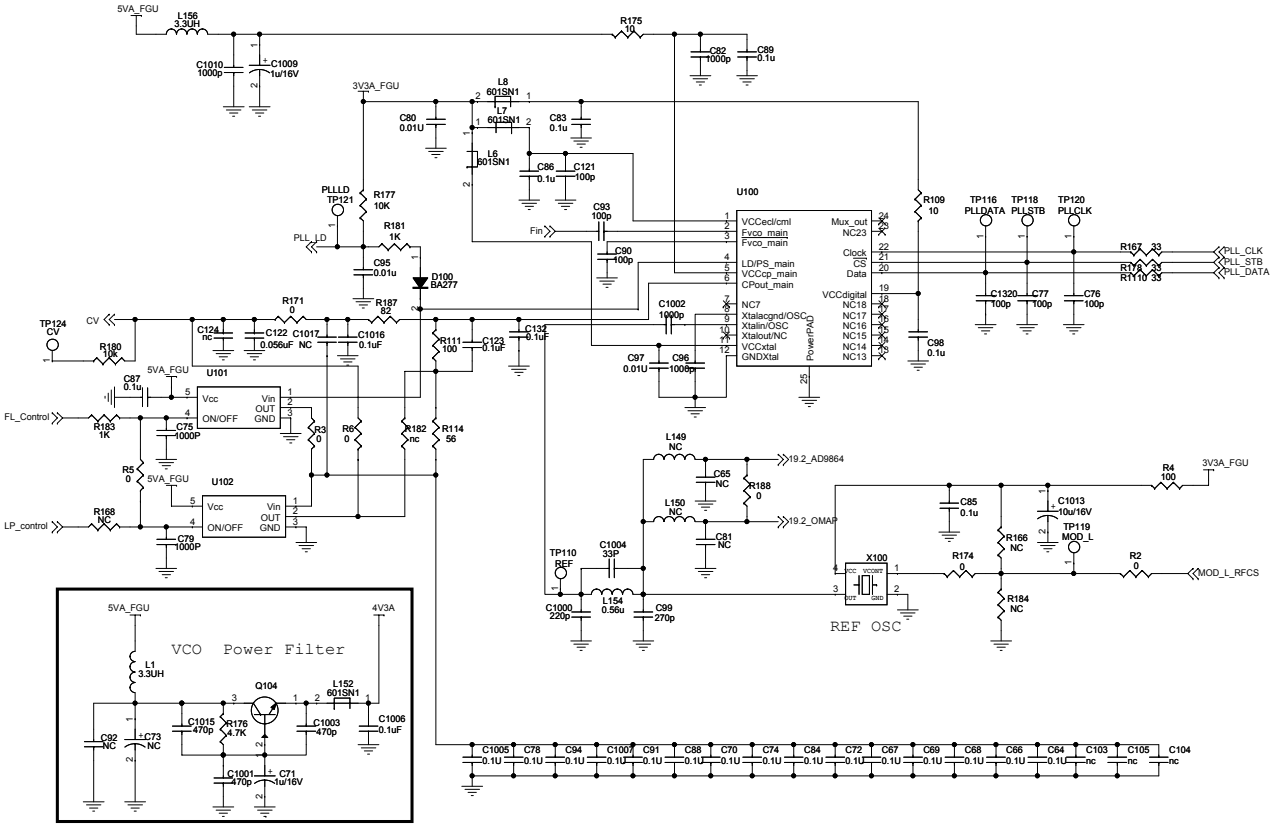
MD78X/MD78XG Schematic Diagram (40-Pin Interface Circuit)



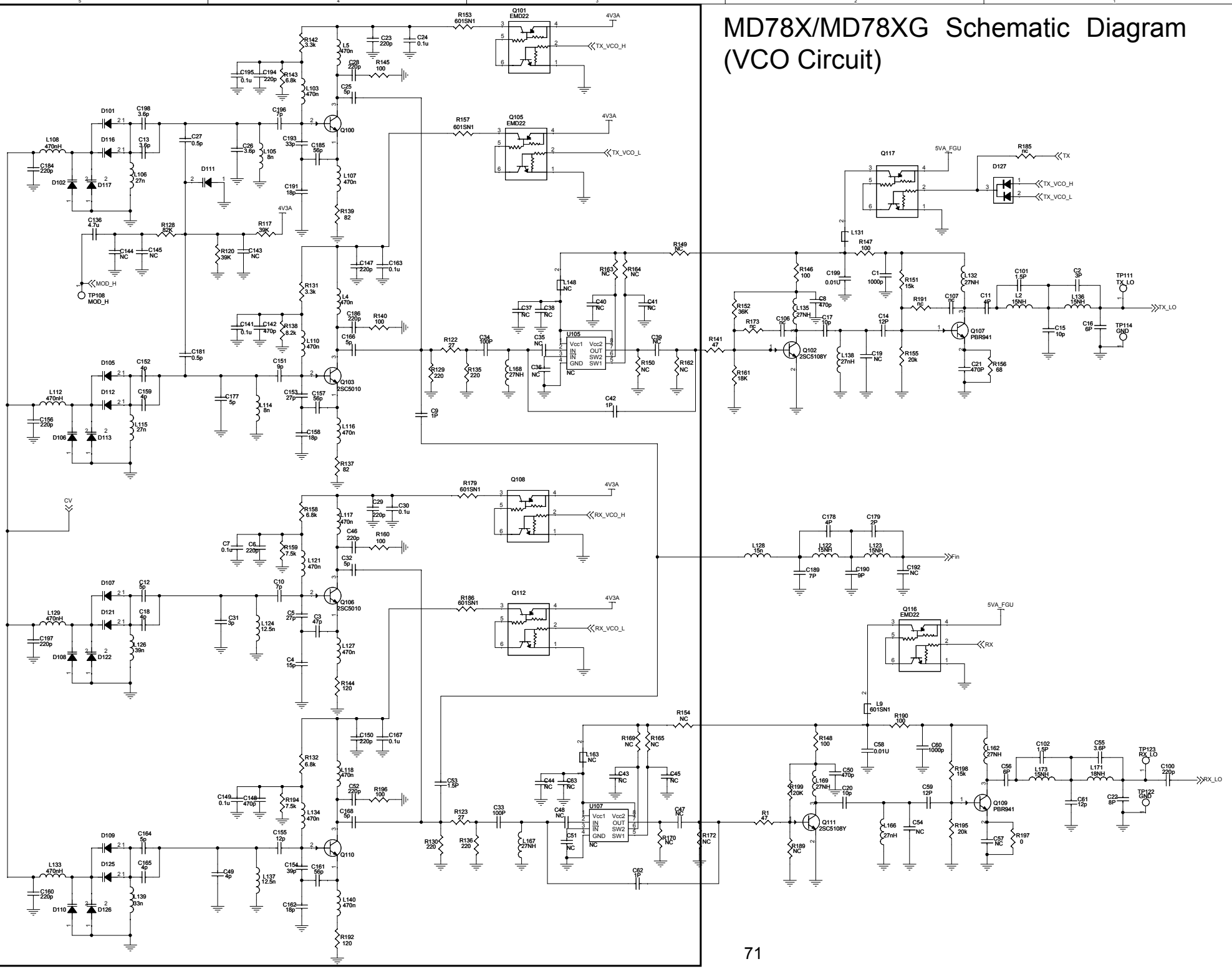
MD78X/MD78XG Schematic Diagram (Power Circuit)



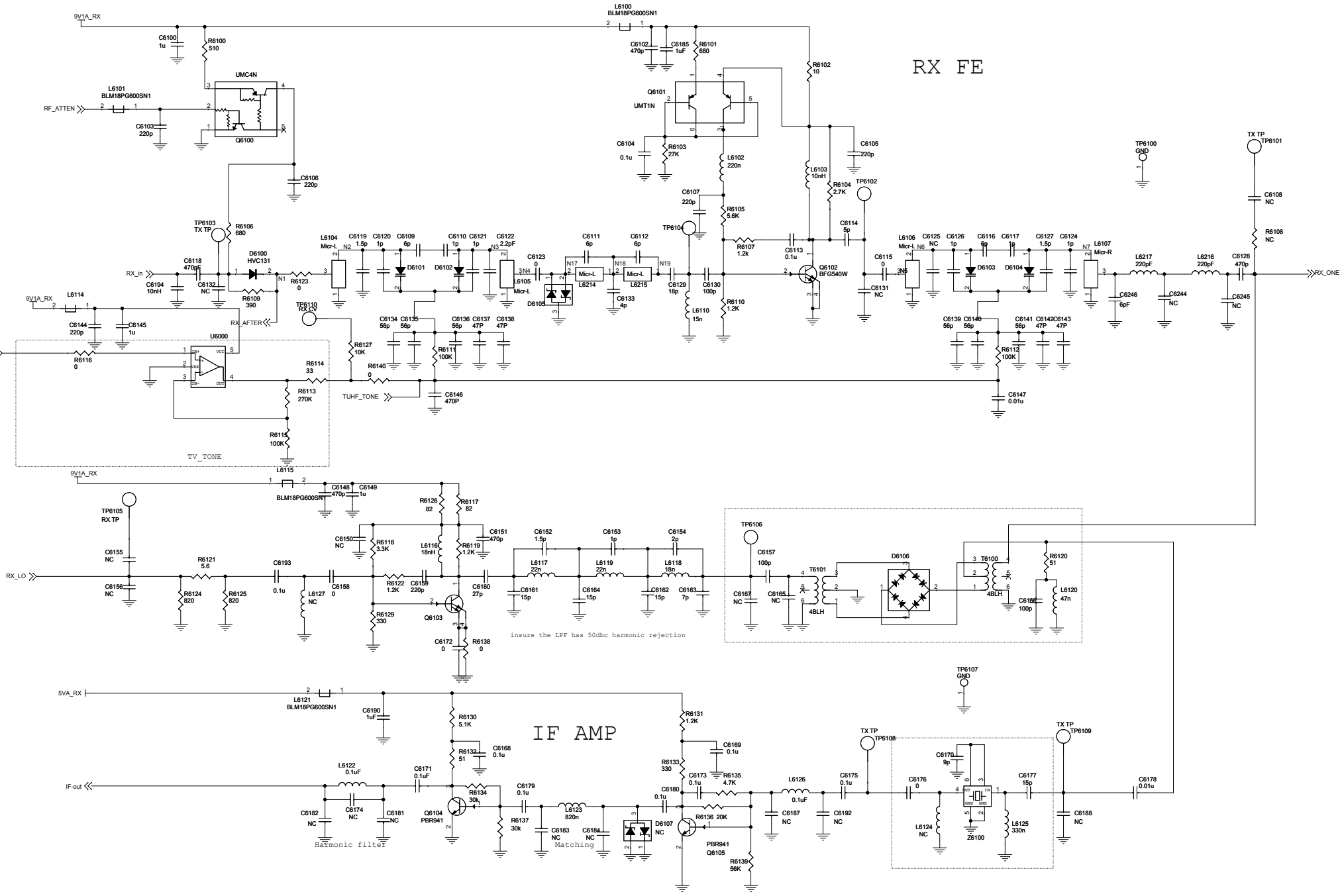
MD78X/MD78XG Schematic Diagram (PLL Circuit)



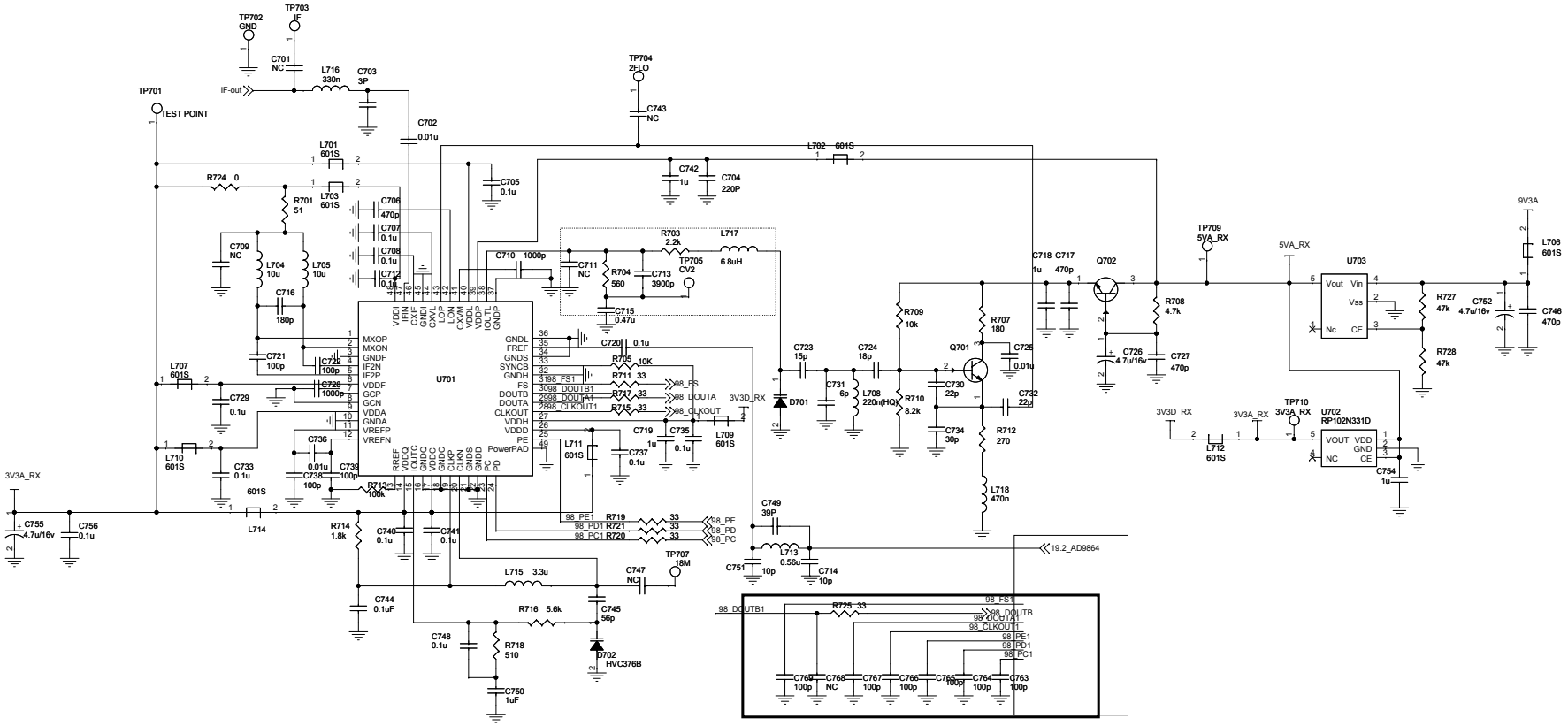
MD78X/MD78XG Schematic Diagram (VCO Circuit)



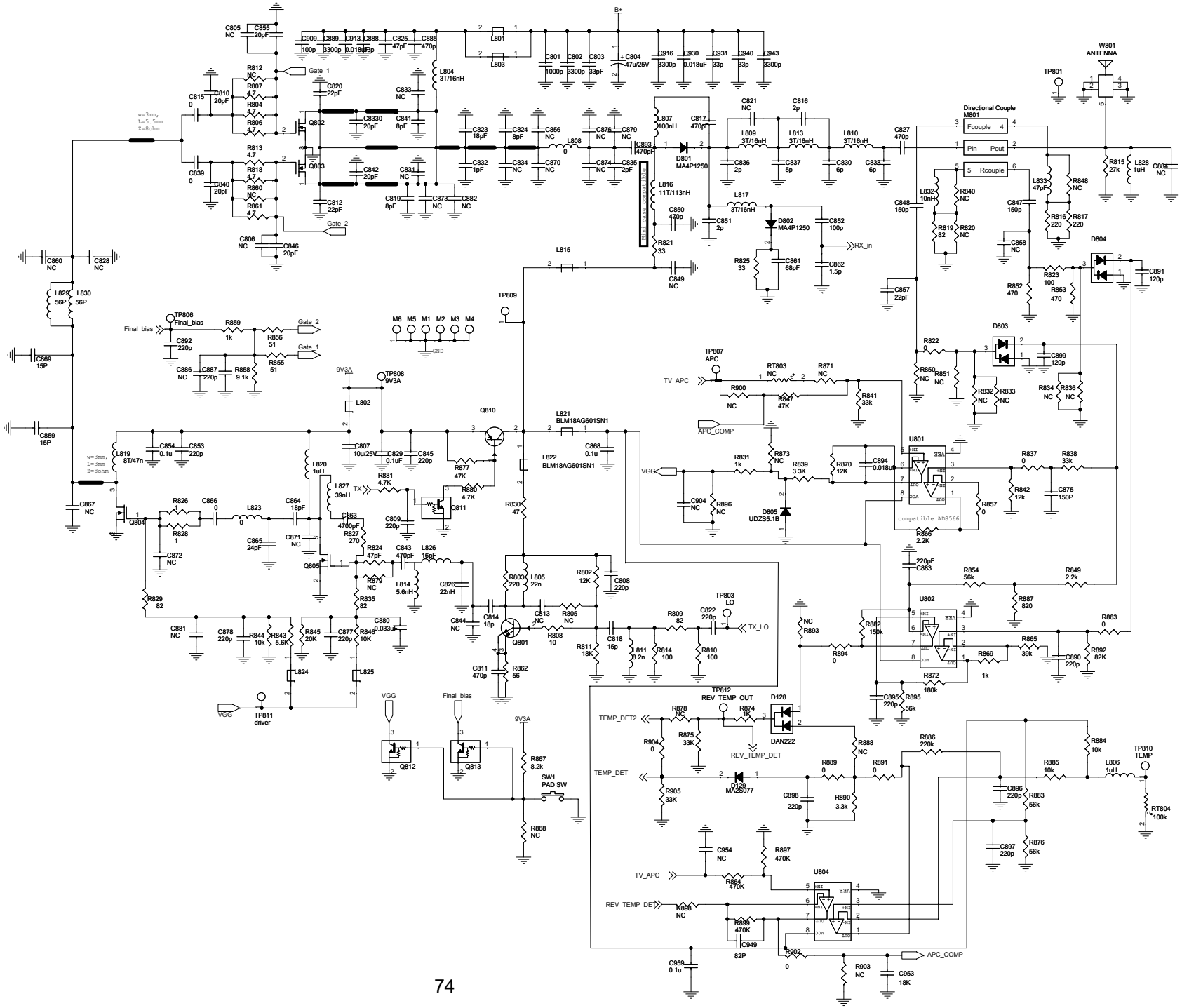
MD78X/MD78XG Schematic Diagram (RX Circuit)



MD78X/MD78XG Schematic Diagram (IF Circuit)



MD78X/MD78XG Schematic Diagram (TX Circuit)



12. Parts List

12.1 Front Panel

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	C1	B3H	3101051010030	100pF	72	D21	B4C	3310240000000	ESD protection diode
2	C10	B3G	3101051010030	100pF	73	D22	B4C	3310240000000	ESD protection diode
3	C11	B3G	3101051010030	100pF	74	D23	B4B	3310990000090	ESD protection diode
4	C12	B3G	3101051010030	100pF	75	D3	B4C	3310990000090	ESD protection diode
5	C13	B4H	3101051040010	0.1uF	76	D4	T5J	3307110100080	LED
6	C14	B3H	3101051040010	0.1uF	77	D5	T5H	3307110100080	LED
7	C15	B2K	3101052710000	270pF	78	D6	T3J	3307110100080	LED
8	C16	B2K	3101052710000	270pF	79	D7	T2J	3307110100080	LED
9	C19	B1L	3101054710010	470pF	80	D8	T2B	3307110300000	LED
10	C2	B4D	3101051040010	0.1uF	81	D9	T2A	3307110300000	LED
11	C20	B4D	3101054710010	470pF	82	J1	B4D	5206040200010	FFC connector
12	C21	B4D	3101054710010	470pF	83	J2	T2G	5206034200010	FPC connector
13	C22	B4D	3101054710010	470pF	84	L1	B4H	3221506300000	Ferrite bead
14	C23	B1E	3101051040010	0.1uF	85	L2	B4D	3221506300000	Ferrite bead
15	C24	B1E	3101051040010	0.1uF	86	PCB	/	41078001000J0	PCB control panel
16	C27	B4D	3101054710010	470pF	87	Q1	B2J	3414001000040	NPN transistor
17	C28	B4D	3101054710010	470pF	88	Q2	B2H	3403008000010	Transistor
18	C29	B4D	3101054710010	470pF	89	Q3	B2H	3403008000010	Transistor
19	C3	B3H	3101061040010	0.1uF	90	Q4	B2G	3599990000610	N-MOSFET
20	C30	B4D	3101054710010	470pF	91	R1	B5H	3001062710000	270Ω
21	C31	B4B	3101054710010	470pF	92	R10	B2G	3001063300000	33Ω
22	C32	B4B	3101054710010	470pF	93	R11	B3F	3001063300000	33Ω
23	C33	B4B	3101054710010	470pF	94	R12	B2H	3001063300000	33Ω
24	C34	B5B	3101054710010	470pF	95	R15	B3G	3001060000000	0Ω
25	C35	B5C	3101054710010	470pF	96	R17	B2H	3001063300000	33Ω
26	C36	B5B	3101054710010	470pF	97	R18	B2G	3001060000000	0Ω
27	C37	B5D	3101054710010	470pF	98	R19	B3G	3001070000000	0Ω
28	C39	T3H	3101055620010	5600pF	99	R2	B2B	3001062710000	270Ω
29	C4	B3I	3101054740020	0.47uF	100	R20	B2G	3001061000000	10Ω
30	C46	B2H	3101054730000	0.047uF	101	R21	B2G	3001061000000	10Ω
31	C47	B5F	3101054710010	470pF	102	R22	B2G	3001061000000	10Ω
32	C48	B5J	3101054710010	470pF	103	R23	B3H	3001060000000	0Ω
33	C49	B2J	3101054710010	470pF	104	R25	B1D	3001051030000	10kΩ
34	C5	B3G	3101051010030	100pF	105	R26	B1D	3001051030000	10kΩ
35	C50	B5H	3101054710010	470pF	106	R27	B1E	3001060000000	0Ω
36	C51	B4J	3101054710010	470pF	107	R28	B3A	3001050000000	0Ω
37	C52	B2J	3101054710010	470pF	108	R29	B1E	3001060000000	0Ω
38	C53	B2B	3101054710010	470pF	109	R3	B2B	3001062710000	270Ω
39	C54	B2B	3101054710010	470pF	110	R30	B3A	3001050000000	0Ω
40	C55	B1C	3101054710010	470pF	111	R31	B5F	3001062710000	270Ω
41	C56	B1B	3101054710010	470pF	112	R32	B1L	3001062710000	270Ω
42	C57	B2A	3101054710010	470pF	113	R33	B2C	3001051030000	10kΩ
43	C58	B2A	3101054710010	470pF	114	R34	B2C	3001051030000	10kΩ
44	C59	B1A	3101054710010	470pF	115	R35	B2C	3001051030000	10kΩ
45	C6	T2G	3101051010030	100pF	116	R36	B2C	3001051030000	10kΩ
46	C60	B1A	3101054710010	470pF	117	R37	B5J	3001062710000	270Ω
47	C61	B4C	3101051040010	0.1uF	118	R38	B2J	3001062710000	270Ω
48	C62	B1M	3101054710010	470pF	119	R39	B1C	3001062710000	270Ω
49	C63	B2K	3101052710000	270pF	120	R4	B2B	3001062710000	270Ω
50	C64	B2K	3101053920000	3900pF	121	R40	B1B	3001062710000	270Ω
51	C65	B4H	3101074750000	4.7uF	122	R41	B1A	3001062710000	270Ω
52	C66	B3H	3101074750000	4.7uF	123	R42	B1A	3001062710000	270Ω
53	C67	B1M	3101054710010	470pF	124	R43	B4B	3001061020010	1kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
54	C68	B1L	3101054710010	470pF	125	R44	B5A	3001061020010	1kΩ
55	C69	B1C	3101054710010	470pF	126	R45	B5D	3001061020010	1kΩ
56	C7	T2G	3101061040010	0.1uF	127	R46	B1L	3001062710000	270Ω
57	C70	B1A	3101054710010	470pF	128	R47	B2I	3001061020010	1kΩ
58	C71	B5F	3101054710010	470pF	129	R5	B2B	3001062710000	270Ω
59	C8	B3G	3101051010030	100pF	130	R6	B3H	3001061030010	10kΩ
60	C9	B3G	3101061040010	0.1uF	131	R7	B3J	3001062710000	270Ω
61	D1	T5F	3307110100080	LED	132	R8	B3J	3001062710000	270Ω
62	D10	B3I	3310990000090	ESD protection diode	133	R9	B2G	3001063300000	33Ω
63	D11	T1B	3307110300000	LED	134	S1	T1M	4301080000090	Momentary contact switch
64	D12	T1A	3307110300000	LED	135	S7	T3A	4301080000090	Momentary contact switch
65	D13	B2K	3310240000000	ESD protection diode	136	U1	B2H	3607010000400	Logic IC
66	D14	B4B	3310990000090	ESD protection diode	137	U2	B3H	3805010860000	EMI filter
67	D17	B5A	3310990000090	ESD protection diode	138	U3	B3F	3805010860000	EMI filter
68	D18	B5C	3310990000090	ESD protection diode	139	U4	B3F	3805010860000	EMI filter
69	D19	B4B	3310240000000	ESD protection diode	140	U5	B4H	3608015000210	Power management IC
70	D2	T1J	3307110100080	LED	141	U8	B4C	3699037000010	USB protection IC
71	D20	B5C	3310990000090	ESD protection diode	/	/	/	/	/

12.2 GPS Circuit

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	C330	T3A	3101051040010	0.1uF	13	R364	T3A	3001050000000	0Ω
2	C331	T2A	3101081060010	10uF	14	R365	T3C	3001051030000	10kΩ
3	C332	T2A	3101051040010	0.1uF	15	R366	T3C	3001051030000	10kΩ
4	C333	T3A	3101081060010	10uF	16	R368	T3C	3001051010000	100Ω
5	C369	T3C	3101054710010	470pF	17	R370	T3C	3001051010000	100Ω
6	D916	T2A	3303010500090	Switching diode	18	R373	T3C	3001053300010	33Ω
7	D919	T2A	3303010500090	Switching diode	19	R398	T3A	3001054720000	4.7kΩ
8	D921	T2A	3302030500030	Zener diode	20	R405	T2A	3001061030000	10kΩ
9	L321	T3A	3212106390000	39nH	21	R417	T2A	3001062030000	20kΩ
10	L322	T3A	3221506300000	Ferrite bead	22	U326	T3B	3625999000060	GPS module
11	R352	T2C	3001053300010	33Ω	23	W321	T3A	4411100002000	IPX RF connector
12	R363	T3A	3001050000000	0Ω	/	/	/	/	/

12.3 Main Board (25 W)

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	B	/	6203077000000	VCO shielding mask	772	L403	B7A	3221506300000	Ferrite bead
2	C	/	6202010000010	APC shielding mask	773	L404	B7A	3221506300000	Ferrite bead
3	C1	T7E	3101051020010	1000pF	774	L405	B7A	3221506300000	Ferrite bead
4	C10	B7G	3101060900010	9pF	775	L406	B7A	3221506300000	Ferrite bead
5	C100	T7G	3101052210010	220pF	776	L407	B7B	3221506300000	Ferrite bead
6	C1000	T8F	3101052210010	220pF	777	L408	B7B	3221506300000	Ferrite bead
7	C1001	B7F	3101054710010	470pF	778	L409	B7B	3221506300000	Ferrite bead
8	C1002	T8F	3101051020010	1000pF	779	L410	B7B	3221506300000	Ferrite bead
9	C1003	B7F	3101054710010	470pF	780	L411	B7B	3221506300000	Ferrite bead
10	C1004	T8F	3101063300000	33pF	781	L412	B7B	3221506300000	Ferrite bead
11	C1005	T6F	3110071040000	0.1uF	782	L414	B8C	3001050000000	0Ω
12	C1006	B8F	3101051040010	0.1uF	783	L415	B8C	3001050000000	0Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
13	C1007	T6F	3110071040000	0.1uF	784	L417	T2C	3001050000000	0Ω
14	C101	T7E	3101050200010	2pF	785	L418	T2C	3001050000000	0Ω
15	C1010	T7F	3101051020010	1000pF	786	L5	B7E	3217607471000	470nH
16	C1015	B7F	3101054710010	470pF	787	L6	T8F	3221506601000	Ferrite bead
17	C1016	T7F	3101065630000	0.056uF	788	L6100	T6I	3211506101000	Ferrite bead
18	C102	T7G	3101061200000	12pF	789	L6101	T4I	3211506101000	Ferrite bead
19	C11	T7E	3101050500030	5pF	790	L6102	T5I	3210306221000	220nH
20	C12	B7G	3101053690000	3.6pF	791	L6103	T6J	3212106270000	27nH
21	C121	T7F	3101051010030	100pF	792	L6110	T5J	3210306220000	22nH
22	C122	T7F	3101061040010	0.1uF	793	L6114	B4I	3211506101000	Ferrite bead
23	C123	T7F	3101062240000	0.22uF	794	L6115	B7H	3211506101000	Ferrite bead
24	C13	B7E	3101054090010	4pF	795	L6116	B8H	3210306270000	27nH
25	C132	T7F	3101062240000	0.22uF	796	L6117	B8I	3210306220000	22nH
26	C1320	T8F	3101051010030	100pF	797	L6118	B8I	3210306220000	22nH
27	C136	B7E	3101074750010	4.7uF	798	L6119	B8I	3210306220000	22nH
28	C14	T7E	3101051200020	12pF	799	L6120	T7I	3210306470000	47nH
29	C141	B7F	3101051040010	0.1uF	800	L6121	T7I	3211506101000	Ferrite bead
30	C142	B7F	3101054710010	470pF	801	L6122	T7I	3101061040010	0.1uF
31	C147	B8F	3101052210010	220pF	802	L6123	T7H	3213306821000	0.82uH
32	C148	B7H	3101054710010	470pF	803	L6125	T8I	3210406331000	330nH
33	C149	B7H	3101051040010	0.1uF	804	L6126	T8H	3101061040010	0.1uF
34	C15	T7E	3101051200020	12pF	805	L6216	T6J	3210305270000	27nH
35	C150	B8G	3101052210010	220pF	806	L6217	T6J	3210305270000	27nH
36	C151	B7F	3101061200000	12pF	807	L7	T7G	3221506601000	Ferrite bead
37	C152	B7E	3101054090010	4pF	808	L701	T6H	3221506601000	Ferrite bead
38	C153	B7F	3101053900000	39pF	809	L702	T6H	3221506601000	Ferrite bead
39	C154	B7G	3101054700010	47pF	810	L703	T6H	3221506601000	Ferrite bead
40	C155	B7G	3101060900010	9pF	811	L704	T5I	3213212103000	10uH
41	C156	B6E	3101052210010	220pF	812	L705	T5I	3213212103000	10uH
42	C157	B7F	3101055600000	56pF	813	L706	T4H	3221506601000	Ferrite bead
43	C158	B7F	3101051800070	18pF	814	L707	T5I	3221506601000	Ferrite bead
44	C159	B7F	3101050500030	5pF	815	L708	B6H	3217107221010	220nH
45	C16	T6E	3101051000030	10pF	816	L709	T5G	3221506601000	Ferrite bead
46	C160	B6G	3101052210010	220pF	817	L710	T5H	3221506601000	Ferrite bead
47	C161	B7G	3101055600000	56pF	818	L711	T5H	3221506601000	Ferrite bead
48	C162	B7G	3101052000020	20pF	819	L712	T6I	3221506601000	Ferrite bead
49	C163	B8F	3101051040010	0.1uF	820	L713	T5G	3213306561000	0.56uH
50	C164	B7G	3101050500030	5pF	821	L714	T5H	3221506601000	Ferrite bead
51	C165	B7G	3101050600010	6pF	822	L715	B5H	3213212332000	3.3uH
52	C166	B8F	3101050500010	5pF	823	L716	T6H	3210406331000	330nH
53	C167	B8G	3101051040010	0.1uF	824	L717	T6G	3212206682000	6.8uH
54	C168	B8G	3101050500010	5pF	825	L718	B6H	3210406471000	470nH
55	C17	T7E	3101061000000	10pF	826	L8	T8F	3221506601000	Ferrite bead
56	C177	B7F	3101060300010	3pF	827	L801	B2F	3221513600000	Ferrite bead
57	C178	T7G	3101060200010	2pF	828	L802	T5E	3221513600000	Ferrite bead
58	C179	T7G	3101060200010	2pF	829	L803	B2F	3221513600000	Ferrite bead
59	C18	B7G	3101050500030	5pF	830	L804	T2F	3233099160000	Air-core coil 16nH
60	C181	B7E	3101050590010	0.5pF	831	L805	B5E	3210306220000	22nH
61	C184	B6E	3101052210010	220pF	832	L806	B3G	3213306102000	1uH
62	C185	B7E	3101055600000	56pF	833	L807	T1H	3210306221000	220nH
63	C186	B7F	3101052210010	220pF	834	L808	T1G	3001080000000	0Ω
64	C189	T7G	3101061200000	12pF	835	L809	T2H	3233099160000	Air-core coil 16nH
65	C191	B7E	3101051500080	15pF	836	L810	T3H	3233099160000	Air-core coil 16nH
66	C192	T7F	3101060800010	8pF	837	L811	B6E	3215006100010	10nH
67	C193	B7E	3101052700000	27pF	838	L813	T3H	3233099160000	Air-core coil 16nH
68	C194	B7E	3101052210010	220pF	839	L814	T5E	3212106689000	6.8nH
69	C195	B7E	3101051040010	0.1uF	840	L815	B2I	3221506601000	Ferrite bead
70	C196	B7E	3101060700020	7pF	841	L816	B2H	3233099111000	Air-core coil 111nH
71	C197	B6G	3101052210010	220pF	842	L817	T2I	3233099160000	Air-core coil 16nH
72	C198	B7E	3101054090010	4pF	843	L819	T5F	3233099470000	Air-core coil 47nH
73	C199	T7E	3101051030020	0.01uF	844	L820	T5E	3217112102020	1uH
74	C2	T6E	3101060300010	3pF	845	L821	B4H	3221506601000	Ferrite bead

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
75	C20	T8G	3101061000000	10pF	846	L822	B5E	3221506601000	Ferrite bead
76	C200	B5D	3101061050020	1uF	847	L823	T6F	3001060000000	0Ω
77	C22	T7H	3101052200010	22pF	848	L824	T6F	3221506601000	Ferrite bead
78	C23	B8E	3101052210010	220pF	849	L825	T6E	3221506601000	Ferrite bead
79	C232	B4C	3101051040010	0.1uF	850	L826	T5E	3101061200000	12pF
80	C233	B4C	3101051040010	0.1uF	851	L827	T6E	3212106390000	TAIYO (RoHS)
81	C234	B4C	3101081060010	10uF	852	L828	T1J	3217112102020	1uH
82	C235	B4C	3101051030020	0.01uF	853	L829	T5F	3001060100000	1Ω
83	C236	B6C	3101051040010	0.1uF	854	L830	T5F	3001060100000	1Ω
84	C237	B5B	3101054740020	0.47uF	855	L832	T3I	3212106100000	10nH
85	C238	B5D	3101061050020	1uF	856	L833	T2J	3101074700050	47pF
86	C239	B6C	3101051040010	0.1uF	857	L9	T7G	3221506601000	Ferrite bead
87	C24	B8E	3101051040010	0.1uF	858	L900	T4B	3221513600000	Ferrite bead
88	C240	B6D	3101051040010	0.1uF	859	L901	T5B	3221506300000	Ferrite bead
89	C241	B5B	3001060000000	0Ω	860	L902	T4C	3217699153000	15uH
90	C242	B6B	3101062210000	220pF	861	L903	T5C	3213099472000	4.7uH
91	C243	B6B	3101051040010	0.1uF	862	L904	B4D	3221506181000	Ferrite bead
92	C245	B6A	3101062210000	220pF	863	L906	B2B	3221513600000	Ferrite bead
93	C246	B6B	3101052230000	0.022uF	864	L908	B5D	3221506181000	Ferrite bead
94	C247	B5C	3101052210010	220pF	865	L909	T7A	3221506181000	Ferrite bead
95	C248	B6C	3101051040010	0.1uF	866	L912	T5C	3221506300000	Ferrite bead
96	C249	B5C	3101061050020	1uF	867	L913	T6C	3221506300000	Ferrite bead
97	C25	B8E	3101050500010	5pF	868	L916	T3D	3221513600000	Ferrite bead
98	C250	B5B	3101052210010	220pF	869	L930	T4D	3241799103000	Power inductor 10uH
99	C251	B5D	3101061050020	1uF	870	L931	T5D	3213099472000	4.7uH
100	C252	B5B	3101061050020	1uF	871	L940	T2D	3221513600000	Ferrite bead
101	C253	B5B	3101061050020	1uF	872	Q100	B7E	3408002000080	NPN transistor
102	C254	B5C	3101052210010	220pF	873	Q101	B8E	3403999000000	Transistor
103	C255	B5C	3101051050000	1uF	874	Q102	T7E	3401002000990	NPN transistor
104	C256	B5D	3101051010030	100pF	875	Q103	B7F	3408002000080	NPN transistor
105	C257	B5C	3101061050020	1uF	876	Q104	B7F	3403003000060	NPN transistor
106	C258	B5C	3101051040010	0.1uF	877	Q105	B8F	3403999000000	Transistor
107	C259	B5D	3101061050020	1uF	878	Q106	B7G	3408002000080	NPN transistor
108	C26	B7E	3101062590010	2.5pF	879	Q107	T7E	3404006000000	NPN transistor
109	C260	B5C	3101051030020	0.01uF	880	Q108	B8F	3403999000000	Transistor
110	C261	B5C	3101051030020	0.01uF	881	Q109	T7G	3404006000000	NPN transistor
111	C262	B5D	3101061050020	1uF	882	Q110	B7G	3408002000080	NPN transistor
112	C263	B5C	3101061050020	1uF	883	Q111	T8G	3401002000990	NPN transistor
113	C264	B5B	3101061050020	1uF	884	Q112	B8H	3403999000000	Transistor
114	C265	B5B	3101052210010	220pF	885	Q116	T7G	3403999000000	Transistor
115	C266	B5C	3101061050020	1uF	886	Q117	T6E	3403999000000	Transistor
116	C267	B5D	3101051040010	0.1uF	887	Q230	B6A	3499000000150	Transistor
117	C268	B6A	3101064740010	0.47uF	888	Q231	B5C	3499000000150	Transistor
118	C269	B5C	3101052210010	220pF	889	Q232	B5D	3499000000150	Transistor
119	C27	B7E	3101050590010	0.5pF	890	Q233	B4B	3499000000150	Transistor
120	C270	B5D	3101052210010	220pF	891	Q234	B4C	3499000000150	Transistor
121	C271	B5D	3101052210010	220pF	892	Q235	B4C	3499000000150	Transistor
122	C272	B5D	3101052210010	220pF	893	Q323	T7C	3403008000010	Transistor
123	C273	B5D	3101052210010	220pF	894	Q400	B2A	3403002000000	PNP transistor
124	C274	B5D	3101051040010	0.1uF	895	Q401	B2A	3403008000010	Transistor
125	C275	B4B	3101071060010	10uF	896	Q402	T2B	3403008000010	Transistor
126	C276	B4B	3101051050000	1uF	897	Q403	B2A	3403008000010	Transistor
127	C277	B4B	3101061050020	1uF	898	Q404	B2B	3403008000010	Transistor
128	C278	B4C	3101061050020	1uF	899	Q405	T2A	3403008000010	Transistor
129	C279	B4C	3101061050020	1uF	900	Q406	B2C	3414999000000	Transistor
130	C28	B7E	3101052210010	220pF	901	Q407	B2B	3414999000000	Transistor
131	C280	B4C	3101052210010	220pF	902	Q408	B2B	3414999000000	Transistor
132	C281	B4C	3101061050020	1uF	903	Q409	B2C	3414999000000	Transistor
133	C282	B4C	3101061050020	1uF	904	Q410	B2C	3414999000000	Transistor
134	C283	B6A	3101061040010	0.1uF	905	Q411	T2B	3414999000000	Transistor
135	C284	B5B	3101092260010	22uF	906	Q412	T2C	3414999000000	Transistor
136	C285	B5A	3101051040010	0.1uF	907	Q413	T6C	3403008000010	Transistor

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
137	C286	B5D	3101081060010	10uF	908	Q414	T2C	3414999000000	Transistor
138	C287	B5A	3101064740000	0.47uF	909	Q415	T2C	3599990000710	P-MOSFET
139	C288	B5B	3101051010030	100pF	910	Q416	T2C	3414001000020	PNP transistor
140	C289	B6A	3101061040010	0.1uF	911	Q6100	T4J	3499000000150	Transistor
141	C29	B8F	3101052210010	220pF	912	Q6101	T5I	3403014000020	Transistor
142	C290	B6B	3101061050020	1uF	913	Q6102	T5J	3404999000000	NPN transistor
143	C291	B6B	3101061050020	1uF	914	Q6103	B8I	3404999000000	NPN transistor
144	C292	B5C	3101064750030	4.7uF	915	Q6104	T7I	3404006000000	NPN transistor
145	C293	B6B	3101071060010	10uF	916	Q6105	T7H	3404006000000	NPN transistor
146	C294	B5A	3101063340010	0.33uF	917	Q701	B6H	3408002000000	NPN transistor
147	C295	B5C	3101051010030	100pF	918	Q702	B6H	3403003000060	NPN transistor
148	C296	B5A	3101051010030	100pF	919	Q801	B6E	3404999000000	NPN transistor
149	C297	B4C	3101064710000	470pF	920	Q803	T4F	3601017000000	RF PA module
150	C298	B5D	3101061050020	1uF	921	Q804	T5F	3504990000070	N-MOSFET
151	C299	B5D	3101061050020	1uF	922	Q805	T5E	3504990000010	PA MOSFET
152	C3	B7G	3101055600000	56pF	923	Q810	B5E	3403002000000	PNP transistor
153	C30	B8F	3101051040010	0.1uF	924	Q811	B5E	3403008000010	Transistor
154	C300	B4C	3101061040010	0.1uF	925	Q812	B4G	3403008000010	Transistor
155	C301	B5A	3101092260010	22uF	926	Q813	B4G	3403008000010	Transistor
156	C302	B5D	3101054710010	470pF	927	Q902	T4H	3403002000000	PNP transistor
157	C303	B5B	3101051040010	0.1uF	928	Q903	T5H	3403008000010	Transistor
158	C305	B5B	3101051050000	1uF	929	Q905	B3A	3499000000150	Transistor
159	C306	B5B	3101051030020	0.01uF	930	Q906	B3B	3414001000020	PNP transistor
160	C307	B5B	3101051010030	100pF	931	Q908	B3B	3403008000010	Transistor
161	C308	B7A	3101051040010	0.1uF	932	Q909	B3B	3403002000010	PNP transistor
162	C309	B7A	3101051010030	100pF	933	Q910	B3B	3414001000020	PNP transistor
163	C31	B7F	3101060300010	3pF	934	Q912	B3A	3403008000010	Transistor
164	C310	T6A	3101051050000	1uF	935	Q913	B2A	3403008000010	Transistor
165	C311	B5B	3101051040010	0.1uF	936	Q914	B3B	3403008000010	Transistor
166	C32	B8G	3101050500010	5pF	937	Q916	B2A	3599990000610	N-MOSFET
167	C325	T8B	3101051040010	0.1uF	938	Q921	B2E	3404999000020	NPN transistor
168	C326	T6C	3101051010030	100pF	939	Q922	T2C	3403008000010	Transistor
169	C329	T6D	3101051040010	0.1uF	940	Q923	T2C	3403008000010	Transistor
170	C33	B8G	3101051010030	100pF	941	R1	T8G	3001054700000	47Ω
171	C330	T3A	3101051040010	0.1uF	942	R109	T8F	3001051000000	10Ω
172	C331	T2A	3101071060010	10uF	943	R111	T7F	3001065600000	56Ω
173	C332	T2A	3101051040010	0.1uF	944	R1110	T8G	3001053300010	33Ω
174	C333	T3A	3101071060010	10uF	945	R114	T7F	3001065100000	51Ω
175	C334	T8D	3101051040010	0.1uF	946	R117	B7E	3001053930000	39kΩ
176	C335	B6B	3101051010030	100pF	947	R120	B7E	3001053930000	39kΩ
177	C336	T7A	3101051040010	0.1uF	948	R122	B8E	3001052700010	27Ω
178	C337	T7B	3101051020010	1000pF	949	R123	B8G	3001052700010	27Ω
179	C338	T7B	3101051020010	1000pF	950	R128	B7E	3001058230000	82kΩ
180	C339	B7B	3101051010030	100pF	951	R129	B8E	3001052210000	220Ω
181	C34	B8E	3101051010030	100pF	952	R130	B8G	3001052210000	220Ω
182	C340	T7A	3101051040010	0.1uF	953	R131	B8F	3001056820010	6.8kΩ
183	C341	B6B	3101051010030	100pF	954	R132	B8G	3001053920000	3.9kΩ
184	C342	B6C	3101051010030	100pF	955	R135	B8E	3001052210000	220Ω
185	C343	T7C	3101051010030	100pF	956	R136	B8G	3001052210000	220Ω
186	C344	T7D	3101051010030	100pF	957	R137	B7E	3001061210000	120Ω
187	C345	T7C	3101051010030	100pF	958	R138	B7F	3001057520000	7.5kΩ
188	C346	T7C	3101051010030	100pF	959	R139	B7E	3001061210000	120Ω
189	C347	T6D	3101051010030	100pF	960	R140	B7E	3001051010040	100Ω
190	C348	T6C	3101051010030	100pF	961	R141	T7E	3001054700000	47Ω
191	C349	T6C	3101051010030	100pF	962	R142	B8E	3001056820010	6.8kΩ
192	C350	T6C	3101051010030	100pF	963	R143	B8E	3001057520000	7.5kΩ
193	C351	T6C	3101051010030	100pF	964	R144	B7G	3001061510000	150Ω
194	C352	T6C	3101051010030	100pF	965	R145	B7E	3001051010040	100Ω
195	C353	T6C	3101051010030	100pF	966	R146	T7E	3001051010040	100Ω
196	C354	T6C	3101051010030	100pF	967	R147	T7E	3001051010040	100Ω
197	C355	B6C	3101051010030	100pF	968	R148	T8G	3001051010040	100Ω
198	C356	T7C	3101051040010	0.1uF	969	R151	T7E	3001051530010	15kΩ
199	C357	T6C	3101051010030	100pF	970	R152	T7E	3001053630000	36kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
200	C358	T7D	3101051010030	100pF	971	R153	B8E	3221506601000	Ferrite bead
201	C359	B7D	3101051010030	100pF	972	R155	T7E	3001052030000	20kΩ
202	C360	B7D	3101051010030	100pF	973	R156	T7E	3001050000000	0Ω
203	C361	B7D	3101051010030	100pF	974	R157	B8F	3221506601000	Ferrite bead
204	C362	T7B	3101058200000	82pF	975	R158	B8F	3001053920000	3.9kΩ
205	C363	T7B	3101058200000	82pF	976	R159	B7F	3001051030000	10kΩ
206	C364	T7B	3101053900000	39pF	977	R160	B7G	3001051010040	100Ω
207	C365	T7B	3101058200000	82pF	978	R161	T7E	3001051830000	18kΩ
208	C366	T6D	3101051040010	0.1uF	979	R167	T8G	3001053300010	33Ω
209	C367	T7A	3101071060010	10uF	980	R171	T7F	3001060000000	0Ω
210	C368	T7A	3101054710010	470pF	981	R174	T8E	3001050000000	0Ω
211	C369	T3C	3101054710010	470pF	982	R175	T7F	3001051000000	10Ω
212	C375	T7B	3101052000020	20pF	983	R176	B7F	3001054720000	4.7kΩ
213	C376	T7C	3101052000020	20pF	984	R177	T7F	3001051030000	10kΩ
214	C378	B7B	3101051010030	100pF	985	R178	T8G	3001053300010	33Ω
215	C379	B6B	3101051040010	0.1uF	986	R179	B8F	3221506601000	Ferrite bead
216	C380	B7B	3101051040010	0.1uF	987	R180	T6F	3001051030000	10kΩ
217	C381	B6C	3101051030020	0.01uF	988	R181	T7F	3001051020000	1kΩ
218	C382	B6C	3101051040010	0.1uF	989	R183	T7F	3001051020000	1kΩ
219	C383	B6C	3101051040010	0.1uF	990	R186	B8G	3221506601000	Ferrite bead
220	C384	B6B	3101051030020	0.01uF	991	R187	T7F	3001061000000	10Ω
221	C385	B6B	3101051010030	100pF	992	R188	T8F	3001050000000	0Ω
222	C386	B6B	3101051040010	0.1uF	993	R190	T7G	3001051010040	100Ω
223	C387	B7B	3101051040010	0.1uF	994	R192	B7G	3001061810000	180Ω
224	C388	B7C	3101051040010	0.1uF	995	R194	B8H	3001051230000	12kΩ
225	C389	B7B	3101051040010	0.1uF	996	R195	T7G	3001052730010	27kΩ
226	C390	B6C	3101051010030	100pF	997	R196	B7G	3001051010040	100Ω
227	C391	T7C	3101051040010	0.1uF	998	R197	T7H	3001050000000	0Ω
228	C392	B6C	3101051040010	0.1uF	999	R198	T7G	3001051530010	15kΩ
229	C393	B6C	3101051040010	0.1uF	1000	R199	T8G	3001051240000	120kΩ
230	C394	B7B	3101051040010	0.1uF	1001	R2	T8E	3001060000000	0Ω
231	C396	T6B	3101061050020	1uF	1002	R202	B5D	3001051030000	10kΩ
232	C398	B6B	3101051040010	0.1uF	1003	R231	B6C	3001053300010	33Ω
233	C399	B6B	3101051030020	0.01uF	1004	R232	B6D	3001053300010	33Ω
234	C4	B7G	3101052000020	20pF	1005	R234	B6C	3001051030000	10kΩ
235	C400	B7B	3101051040010	0.1uF	1006	R235	B6C	3001051030000	10kΩ
236	C402	T6C	3101071060010	10uF	1007	R236	B5D	3001051030000	10kΩ
237	C407	T8C	3101051040010	0.1uF	1008	R237	B5A	3001055630000	56kΩ
238	C409	T7C	3101051010030	100pF	1009	R238	B5B	3001053320000	3.3kΩ
239	C410	T8C	3101051010030	100pF	1010	R239	B6B	3001055620000	5.6kΩ
240	C411	T8C	3101051010030	100pF	1011	R240	T6D	3001053320000	3.3kΩ
241	C412	T8C	3101051010030	100pF	1012	R241	B5A	3001055630000	56kΩ
242	C413	T7C	3101051010030	100pF	1013	R242	B6C	3001050000000	0Ω
243	C414	T7C	3101051010030	100pF	1014	R244	B5C	3001052230010	22kΩ
244	C415	T7C	3101051010030	100pF	1015	R246	B5C	3001052230010	22kΩ
245	C416	T7C	3101051010030	100pF	1016	R247	B5B	3001051040010	100kΩ
246	C417	T8C	3101051010030	100pF	1017	R248	B5B	3001051040010	100kΩ
247	C418	T8C	3101051010030	100pF	1018	R250	B5B	3001051530000	15kΩ
248	C419	B8D	3101051010030	100pF	1019	R251	B5B	3001051010000	100Ω
249	C42	B8E	3101050100030	1pF	1020	R252	B5C	3001051040010	100kΩ
250	C420	B8D	3101051010030	100pF	1021	R255	B5D	3001064710000	470Ω
251	C421	T2C	3101052210010	220pF	1022	R257	B5C	3001053030010	30kΩ
252	C422	T2B	3101051040010	0.1uF	1023	R258	B5C	3001051030000	10kΩ
253	C423	T2C	3101052210010	220pF	1024	R259	B5C	3001051030000	10kΩ
254	C424	T2A	3101052210010	220pF	1025	R260	B5C	3001051010000	100Ω
255	C425	T2A	3101052210010	220pF	1026	R261	B5C	3001051030000	10kΩ
256	C426	T2B	3101051010030	100pF	1027	R262	B5B	3001051040010	100kΩ
257	C427	T2C	3101051010030	100pF	1028	R263	B5B	3001053030010	30kΩ
258	C428	T2C	3101051010030	100pF	1029	R264	B5D	3001051020010	1kΩ
259	C429	T2C	3101051010030	100pF	1030	R265	B4B	3001051820000	1.8kΩ
260	C430	T2A	3101051010030	100pF	1031	R266	B4B	3001054730000	47kΩ
261	C431	T2A	3101051010030	100pF	1032	R267	B5D	3001051020010	1kΩ
262	C432	T2B	3101052210010	220pF	1033	R268	B5B	3001051040010	100kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
263	C433	T2B	3101052210010	220pF	1034	R269	B4B	3001051040010	100kΩ
264	C434	T2B	3101052210010	220pF	1035	R270	B4B	3001054730000	47kΩ
265	C435	B8D	3101051010030	100pF	1036	R271	B4B	3001051010000	100Ω
266	C436	T2C	3101052210010	220pF	1037	R272	B5B	3001054730000	47kΩ
267	C437	T2B	3101052210010	220pF	1038	R273	B4C	3001052430010	24kΩ
268	C438	B7C	3101054740020	0.47uF	1039	R274	B4C	3001051040010	100kΩ
269	C439	B7C	3101054740020	0.47uF	1040	R275	B4C	3001051040010	100kΩ
270	C440	B8D	3101051010030	100pF	1041	R276	B4C	3001051040010	100kΩ
271	C441	T8C	3101051010030	100pF	1042	R277	B4C	3001054730000	47kΩ
272	C442	B8B	3101051010030	100pF	1043	R278	B4C	3001051010000	100Ω
273	C443	B8B	3101051010030	100pF	1044	R279	B5D	3001053030010	30kΩ
274	C444	B8A	3101051010030	100pF	1045	R282	T6A	3001060000000	0Ω
275	C445	B8B	3101051010030	100pF	1046	R283	B5D	3001053030010	30kΩ
276	C446	B8A	3101051010030	100pF	1047	R284	B5D	3001051530000	15kΩ
277	C447	B8B	3101051010030	100pF	1048	R285	B5D	3001051530000	15kΩ
278	C448	B8A	3101051010030	100pF	1049	R286	B6B	3001054730000	47kΩ
279	C449	B8A	3101051010030	100pF	1050	R287	B6B	3001055620000	5.6kΩ
280	C450	B8A	3101051010030	100pF	1051	R288	B6A	3001054730000	47kΩ
281	C451	B8A	3101051010030	100pF	1052	R289	B6A	3001050000000	0Ω
282	C452	B8B	3101051010030	100pF	1053	R290	B5C	3001051020000	1kΩ
283	C453	B8B	3101051010030	100pF	1054	R291	B6B	3001051220000	1.2kΩ
284	C454	B8B	3101051010030	100pF	1055	R292	B6B	3001053300010	33Ω
285	C455	B8B	3101051010030	100pF	1056	R295	B5A	3001051020000	1kΩ
286	C456	B8B	3101051010030	100pF	1057	R296	B6B	3001051040000	100kΩ
287	C46	B7G	3101052210010	220pF	1058	R3	T7F	3001050000000	0Ω
288	C463	B7C	3101051010030	100pF	1059	R316	T5B	3001051030000	10kΩ
289	C465	B8C	3101051010030	100pF	1060	R319	T6B	3001053300010	33Ω
290	C466	B8C	3101051010030	100pF	1061	R320	B6B	3001053300010	33Ω
291	C467	B8C	3101051010030	100pF	1062	R322	T5B	3001051030000	10kΩ
292	C468	B8C	3101051010030	100pF	1063	R324	T7C	3001053300010	33Ω
293	C469	B8A	3101051010030	100pF	1064	R326	T6B	3001051030000	10kΩ
294	C473	T8D	3101051040010	0.1uF	1065	R327	B6C	3001053300010	33Ω
295	C474	T2C	3101054710010	470pF	1066	R337	T7C	3001051010000	100Ω
296	C476	T2C	3101054710010	470pF	1067	R338	T7B	3001051010000	100Ω
297	C477	T7C	3101051010030	100pF	1068	R339	T7C	3001051010000	100Ω
298	C478	T7C	3101051010030	100pF	1069	R346	B6C	3001051010000	100Ω
299	C479	T8C	3101051010030	100pF	1070	R347	T7D	3001053300010	33Ω
300	C480	T8C	3101051010030	100pF	1071	R348	T8B	3001050000000	0Ω
301	C483	B2B	3101051040010	0.1uF	1072	R349	T8B	3001053300010	33Ω
302	C484	T2C	3101062250000	2.2uF	1073	R350	T8B	3001053300010	33Ω
303	C485	B2C	3101051040010	0.1uF	1074	R351	T6B	3001051030000	10kΩ
304	C49	B7G	3101060700020	7pF	1075	R352	T2C	3001053300010	33Ω
305	C5	B7G	3101053900000	39pF	1076	R353	T6A	3001051030000	10kΩ
306	C50	T8G	3101054710010	470pF	1077	R354	T6C	3001053300010	33Ω
307	C500	B7C	3101053300000	33pF	1078	R355	B6C	3001053300010	33Ω
308	C501	B7C	3101053310020	330pF	1079	R356	B6A	3001050000000	0Ω
309	C502	B7C	3101053320010	3300pF	1080	R357	T6C	3001053300010	33Ω
310	C503	B7C	3101051820000	1800pF	1081	R358	B7B	3001051000000	10Ω
311	C506	B7C	3101051030020	0.01uF	1082	R360	B7B	3001051000000	10Ω
312	C507	B7C	3101051030020	0.01uF	1083	R361	B7B	3001051530000	15kΩ
313	c508	B7C	3101071060010	10uF	1084	R362	B7B	3001051530000	15kΩ
314	C509	B7C	3101051040010	0.1uF	1085	R363	T3A	3001050000000	0Ω
315	C510	B7C	3101051010030	100pF	1086	R364	T3A	3001050000000	0Ω
316	C511	B7B	3101071060010	10uF	1087	R365	T3C	3001051030000	10kΩ
317	C512	B7B	3101051040010	0.1uF	1088	R366	T3C	3001051030000	10kΩ
318	C513	B7C	3101051020010	1000pF	1089	R367	T6D	3001053300010	33Ω
319	C514	B7C	3101051040010	0.1uF	1090	R368	T3C	3001051010000	100Ω
320	C515	B7C	3101051040010	0.1uF	1091	R369	T6D	3001053300010	33Ω
321	C516	B7B	3101051010030	100pF	1092	R370	T3C	3001051010000	100Ω
322	C517	B7B	3101051010030	100pF	1093	R371	T6D	3001053300010	33Ω
323	C518	B7B	3101051010030	100pF	1094	R372	T6D	3001051030000	10kΩ
324	C519	B5C	3101071060010	10uF	1095	R373	T3C	3001053300010	33Ω
325	C52	B7G	3101052210010	220pF	1096	R374	T7B	3001050000000	0Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
326	C520	B6D	3101071060010	10uF	1097	R375	T6C	3001050000000	0Ω
327	C53	T8G	3101051590000	1.5pF	1098	R376	T6C	3001053300010	33Ω
328	C55	T7G	3101060400010	4pF	1099	R377	T6C	3001051030000	10kΩ
329	C56	T7G	3101051000030	10pF	1100	R378	T6C	3001051020000	1kΩ
330	C58	T7G	3101051030020	0.01uF	1101	R379	T7C	3001051030000	10kΩ
331	C59	T7G	3101051200020	12pF	1102	R380	T6C	3001053300010	33Ω
332	C6	B7F	3101052210010	220pF	1103	R381	T6C	3001053300010	33Ω
333	C60	T7G	3101051020010	1000pF	1104	R382	T6C	3001051020000	1kΩ
334	C61	T7H	3101051800010	18pF	1105	R383	B7C	3001051020010	1kΩ
335	C6100	T4I	3101061050020	1uF	1106	R385	B7B	3001051030000	10kΩ
336	C6102	T6J	3101054710010	470pF	1107	R386	B6B	3001051000000	10Ω
337	C6103	T4I	3101052210010	220pF	1108	R387	T7B	3001053300010	33Ω
338	C6104	T5I	3101051040010	0.1uF	1109	R388	T7C	3001051000000	10Ω
339	C6105	T5J	3101052210010	220pF	1110	R390	T7B	3001051030000	10kΩ
340	C6106	T4J	3101052210010	220pF	1111	R391	T8D	3001051030000	10kΩ
341	C6107	T5J	3101052210010	220pF	1112	R392	T7D	3001051030000	10kΩ
342	C6108	T6J	3101051020010	1000pF	1113	R393	T7D	3001051030000	10kΩ
343	C6109	T4J	3101050600010	6pF	1114	R394	T7D	3001051030000	10kΩ
344	C6110	T4J	3101050100030	1pF	1115	R395	T7D	3001054720000	4.7kΩ
345	C6111	T5J	3101050900000	9pF	1116	R396	T7D	3001054720000	4.7kΩ
346	C6112	T5J	3101051000020	10pF	1117	R398	T3A	3001054720000	4.7kΩ
347	C6113	T5J	3101051040010	0.1uF	1118	R399	T6A	3001050000000	0Ω
348	C6114	T5J	3101050600010	6pF	1119	R4	T8E	3001061010000	100Ω
349	C6115	T6J	3001050000000	0Ω	1120	R400	T7D	3001051030000	10kΩ
350	C6116	T6J	3101050600010	6pF	1121	R401	B7B	3001051520000	1.5kΩ
351	C6117	T6J	3101051590000	1.5pF	1122	R402	T6D	3001053300010	33Ω
352	C6118	T4J	3101054710010	470pF	1123	R403	T6C	3001051010000	100Ω
353	C6120	T4J	3101050300000	3pF	1124	R404	T6C	3001051010000	100Ω
354	C6121	T4J	3101050300000	3pF	1125	R405	T2A	3001061030000	10kΩ
355	C6122	T5J	3101052490010	2.4pF	1126	R406	T6C	3001051010000	100Ω
356	C6123	T5J	3001050000000	0Ω	1127	R407	T8C	3001060000000	0Ω
357	C6124	T6J	3101050500000	5pF	1128	R408	T7C	3001053300010	33Ω
358	C6125	T6J	3101050200010	2pF	1129	R409	T8C	3001051010000	100Ω
359	C6126	T6J	3101052790060	2.7pF	1130	R410	T6C	3001051010000	100Ω
360	C6127	T6J	3101052790060	2.7pF	1131	R411	T6C	3001051010000	100Ω
361	C6128	T6J	3101054710010	470pF	1132	R412	T8C	3001053300010	33Ω
362	C6129	T5J	3101051200020	12pF	1133	R413	T6C	3001053300010	33Ω
363	C6130	T5J	3101051010030	100pF	1134	R414	T7A	3001051000000	10Ω
364	C6133	T5J	3101057590000	7.5pF	1135	R415	T7C	3001053300010	33Ω
365	C6134	T4I	3101056800000	68pF	1136	R416	T8C	3001051010000	100Ω
366	C6135	T4I	3101056800000	68pF	1137	R417	T2A	3001062030000	20kΩ
367	C6136	T4I	3101056800000	68pF	1138	R420	T8C	3001053300010	33Ω
368	C6137	T4I	3101056800000	68pF	1139	R421	T6C	3001051010000	100Ω
369	C6138	T4I	3101056800000	68pF	1140	R422	T7B	3001051030000	10kΩ
370	C6139	T6I	3101056800000	68pF	1141	R423	T7C	3001053300010	33Ω
371	C6140	T6I	3101056800000	68pF	1142	R424	T7C	3001053300010	33Ω
372	C6141	T6I	3101056800000	68pF	1143	R425	T7C	3001053300010	33Ω
373	C6142	T6I	3101056800000	68pF	1144	R426	T7A	3001050000000	0Ω
374	C6143	T6I	3101056800000	68pF	1145	R427	T2B	3001051030000	10kΩ
375	C6144	B4H	3101052210010	220pF	1146	R428	T2B	3001054720000	4.7kΩ
376	C6145	B4I	3101061050020	1uF	1147	R429	T6C	3001051030000	10kΩ
377	C6146	T4I	3101054710010	470pF	1148	R430	T8C	3001053300010	33Ω
378	C6147	T6I	3101051030020	0.01uF	1149	R431	T7C	3001053300010	33Ω
379	C6148	B7H	3101054710010	470pF	1150	R432	T7C	3001053300010	33Ω
380	C6149	B7H	3101061050020	1uF	1151	R433	T7C	3001053300010	33Ω
381	C6151	B7H	3101054710010	470pF	1152	R434	T8D	3001051010000	100Ω
382	C6152	B8I	3101050300000	3pF	1153	R435	T2C	3001054720000	4.7kΩ
383	C6153	B8I	3101050400010	4pF	1154	R436	T2B	3001054720000	4.7kΩ
384	C6154	B8I	3101050400010	4pF	1155	R437	T2A	3001054720000	4.7kΩ
385	C6155	B7H	3101051030020	0.01uF	1156	R438	B2A	3001051030000	10kΩ
386	C6157	B8I	3101061010010	100pF	1157	R439	B2A	3001051010000	100Ω
387	C6158	B7H	3001060000000	0Ω	1158	R440	T6B	3001050000000	0Ω
388	C6159	B8H	3101052210010	220pF	1159	R441	B6A	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
389	C6160	B8H	3101053300000	33pF	1160	R442	T6A	3001051030000	10kΩ
390	C6161	B8H	3101051500020	15pF	1161	R443	T2A	3001051030000	10kΩ
391	C6162	B8I	3101051500020	15pF	1162	R445	T2A	3001051010000	100Ω
392	C6163	B8I	3101050700010	7pF	1163	R447	T2A	3001051030000	10kΩ
393	C6164	B8I	3101051500020	15pF	1164	R448	T2B	3001054720000	4.7kΩ
394	C6166	T7I	3101051010030	100pF	1165	R449	B2A	3001064730000	47kΩ
395	C6168	T7I	3101051040010	0.1uF	1166	R450	B2A	3001071020000	1kΩ
396	C6169	T7I	3101051040010	0.1uF	1167	R451	B2B	3001051030000	10kΩ
397	C6170	T7I	3101050900000	9pF	1168	R452	B2B	3001051030000	10kΩ
398	C6171	T7I	3101051040010	0.1uF	1169	R453	T5B	3001051030000	10kΩ
399	C6172	B7I	3001050000000	0Ω	1170	R454	B2A	3001050000000	0Ω
400	C6173	T7H	3101051040010	0.1uF	1171	R455	T2A	3001058230000	82kΩ
401	C6175	T8H	3101051040010	0.1uF	1172	R456	T8C	3001050000000	0Ω
402	C6176	T8I	3001060000000	0Ω	1173	R457	T8C	3001050000000	0Ω
403	C6177	T8I	3101051500020	15pF	1174	R458	T8C	3001051010000	100Ω
404	C6178	T7I	3101051030020	0.01uF	1175	R459	T8C	3001051010000	100Ω
405	C6179	T7H	3101051040010	0.1uF	1176	R460	T7D	3001051020010	1kΩ
406	C6180	T7H	3101051040010	0.1uF	1177	R461	B2C	3001051030000	10kΩ
407	C6185	T6J	3101061050020	1uF	1178	R462	B2B	3001051030000	10kΩ
408	C6190	T7I	3101061050020	1uF	1179	R463	B2B	3001051030000	10kΩ
409	C6193	B7H	3101061040010	0.1uF	1180	R464	B2B	3001051030000	10kΩ
410	C62	B8G	3101050100030	1pF	1181	R465	B2C	3001051030000	10kΩ
411	C6244	T6J	3101051000030	10pF	1182	R466	B2C	3001051030000	10kΩ
412	C6245	T7J	3101050200010	2pF	1183	R467	B2C	3001053300010	33Ω
413	C6246	T6J	3101050600010	6pF	1184	R468	T2B	3001054720000	4.7kΩ
414	C64	T7F	3110071040000	0.1uF	1185	R469	T2C	3001054720000	4.7kΩ
415	C66	T6F	3110071040000	0.1uF	1186	R470	T2B	3001054720000	4.7kΩ
416	C67	T7F	3110071040000	0.1uF	1187	R471	T2B	3001054720000	4.7kΩ
417	C68	T6F	3110071040000	0.1uF	1188	R472	T2B	3001054720000	4.7kΩ
418	C69	T7F	3110071040000	0.1uF	1189	R473	B2C	3001053300010	33Ω
419	C7	B7F	3101051040010	0.1uF	1190	R474	B2C	3001053300010	33Ω
420	C70	T6F	3110071040000	0.1uF	1191	R475	T2A	3001051030000	10kΩ
421	C701	T6H	3101051030020	0.01uF	1192	R476	T8C	3001054720000	4.7kΩ
422	C702	T6H	3101051030020	0.01uF	1193	R479	T6C	3001053300010	33Ω
423	C703	T6H	3101060300010	3pF	1194	R481	B5B	3001051030000	10kΩ
424	C704	T6H	3101052210010	220pF	1195	R482	B6B	3001051030000	10kΩ
425	C705	T6H	3101051040010	0.1uF	1196	R483	B6B	3001051030000	10kΩ
426	C706	T6H	3101054710010	470pF	1197	R484	T8C	3001054720000	4.7kΩ
427	C707	T6H	3101051040010	0.1uF	1198	R485	B7C	3001053300010	33Ω
428	C708	T6H	3101051040010	0.1uF	1199	R486	B7C	3001053300010	33Ω
429	C709	T5I	3101051040010	0.1uF	1200	R487	T7A	3001053300010	33Ω
430	C71	B7F	3101071050240	1uF	1201	R488	T7B	3001054720000	4.7kΩ
431	C710	T6H	3101051020010	1000pF	1202	R489	T7A	3001053300010	33Ω
432	C712	T6H	3101051040010	0.1uF	1203	R490	T7A	3001053300010	33Ω
433	C713	T6H	3101053920000	3900pF	1204	R491	B7C	3001053300010	33Ω
434	C714	T6G	3101051000020	10pF	1205	R492	T7A	3001053300010	33Ω
435	C715	T6H	3101064740000	0.47uF	1206	R493	T2A	3001061040010	100kΩ
436	C716	T6I	3101061810060	180pF	1207	R495	B7C	3001053300010	33Ω
437	C717	B6H	3101054710010	470pF	1208	R496	B2C	3001054720000	4.7kΩ
438	C718	B6H	3101051050160	1uF	1209	R497	B2B	3001051020000	1kΩ
439	C719	T5G	3101051050000	1uF	1210	R498	B7C	3001053300010	33Ω
440	C72	T7F	3110071040000	0.1uF	1211	R499	B7B	3001054720000	4.7kΩ
441	C720	T6H	3101051040010	0.1uF	1212	R5	T7E	3001050000000	0Ω
442	C721	T6H	3101051010030	100pF	1213	R500	B7C	3001051040000	100kΩ
443	C722	T6H	3101051010030	100pF	1214	R501	B7C	3001051030010	10kΩ
444	C723	B6H	3101051500020	15pF	1215	R502	B7C	3001051020000	1kΩ
445	C724	B6H	3101051800010	18pF	1216	R503	B7C	3001051020000	1kΩ
446	C725	B6H	3101051030020	0.01uF	1217	R504	B7C	3001051020000	1kΩ
447	C726	B6H	3101074750000	4.7uF	1218	R505	B7C	3001050000000	0Ω
448	C727	B6H	3101054710010	470pF	1219	R506	B7C	3001051030000	10kΩ
449	C728	T5H	3101051020010	1000pF	1220	R507	B7C	3001050000000	0Ω
450	C729	T5H	3101051040010	0.1uF	1221	R508	T2C	3001051030000	10kΩ
451	C730	B6H	3101052200010	22pF	1222	R509	B7B	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
452	C731	B6H	3101050600010	6pF	1223	R510	B7B	3001051030000	10kΩ
453	C732	B6H	3101052200010	22pF	1224	R511	B7B	3001054720000	4.7kΩ
454	C733	T5H	3101051040010	0.1uF	1225	R512	B7C	3001051030000	10kΩ
455	C734	B6H	3101053000010	30pF	1226	R513	B7C	3001051040000	100kΩ
456	C735	T5H	3101051040010	0.1uF	1227	R514	B7C	3001051040000	100kΩ
457	C736	T5H	3101051030020	0.01uF	1228	R515	T7A	3001053300010	33Ω
458	C737	T5H	3101051040010	0.1uF	1229	R516	T7A	3001053300010	33Ω
459	C738	T5H	3101051010030	100pF	1230	R517	T7A	3001053300010	33Ω
460	C739	T5H	3101051010030	100pF	1231	R518	T7A	3001053300010	33Ω
461	C74	T7F	3110071040000	0.1uF	1232	R519	T7B	3001053300010	33Ω
462	C740	T5H	3101051040010	0.1uF	1233	R520	T7B	3001053300010	33Ω
463	C741	T5H	3101051040010	0.1uF	1234	R521	T7B	3001053300010	33Ω
464	C742	T6H	3101061050020	1uF	1235	R522	T7A	3001053300010	33Ω
465	C743	T6H	3101064700000	47pF	1236	R523	B7B	3001053300010	33Ω
466	C744	B5H	3101051040010	0.1uF	1237	R524	B7B	3001053300010	33Ω
467	C745	B5H	3101053300000	33pF	1238	R525	B8B	3001053300010	33Ω
468	C746	T4H	3101054710010	470pF	1239	R526	B7B	3001053300010	33Ω
469	C747	B5H	3101052200010	22pF	1240	R527	B7B	3001053300010	33Ω
470	C748	B5H	3101061040010	0.1uF	1241	R528	B7C	3001056830000	68kΩ
471	C749	T5G	3101063900060	39pF	1242	R529	B7C	3001053330000	33kΩ
472	C75	T7F	3101051020010	1000pF	1243	R530	T8D	3001051030000	10kΩ
473	C750	B5H	3101071050240	1uF	1244	R531	T8D	3001051030000	10kΩ
474	C751	T6G	3101051000020	10pF	1245	R532	T8C	3001051030000	10kΩ
475	C752	T4I	3101074750000	4.7uF	1246	R533	B7B	3001053300010	33Ω
476	C754	T4I	3101061050020	1uF	1247	R534	B8C	3001051030000	10kΩ
477	C755	T6I	3101074750000	4.7uF	1248	R535	B8C	3001051030000	10kΩ
478	C756	T6I	3101051040010	0.1uF	1249	R536	T5B	3001050000000	0Ω
479	C76	T8F	3101051010030	100pF	1250	R538	T7C	3001051030000	10kΩ
480	C763	T5H	3101051010030	100pF	1251	R539	T7C	3001051030000	10kΩ
481	C764	T5H	3101051010030	100pF	1252	R540	T8D	3001051030000	10kΩ
482	C765	T5H	3101051010030	100pF	1253	R541	T8C	3001051030000	10kΩ
483	C766	T5H	3101051010030	100pF	1254	R543	T7C	3001051030000	10kΩ
484	C767	T5H	3101051010030	100pF	1255	R544	B5B	3001050000000	0Ω
485	C769	T6G	3101051010030	100pF	1256	R545	B7D	3001053300010	33Ω
486	C77	T8F	3101051010030	100pF	1257	R546	B2C	3001061010000	100Ω
487	C78	T6F	3110071040000	0.1uF	1258	R552	B7D	3001053300010	33Ω
488	C79	T7E	3101051020010	1000pF	1259	R553	B7D	3001053300010	33Ω
489	C8	T7E	3101054710010	470pF	1260	R554	T8D	3001051020010	1kΩ
490	C80	T8F	3101051030020	0.01uF	1261	R555	T8D	3001051030000	10kΩ
491	C801	B1F	3101081020010	1000pF	1262	R556	T2C	3001051010000	100Ω
492	C802	B1F	3101063320000	3300pF	1263	R557	T2B	3001051010000	100Ω
493	C803	B1F	3101063300000	33pF	1264	R558	B2C	3001053330010	33kΩ
494	C804	B1F	3101092260010	22uF	1265	R559	B2B	3001053330010	33kΩ
495	C807	T5E	3101081060010	10uF	1266	R560	B2B	3001053330010	33kΩ
496	C808	B5E	3101062210000	220pF	1267	R561	B2C	3001053330010	33kΩ
497	C809	B5E	3101062210000	220pF	1268	R562	B2C	3001053330010	33kΩ
498	C811	B6E	3101064710000	470pF	1269	R563	T2B	3001051030000	10kΩ
499	C814	B5E	3101061800000	18pF	1270	R564	B7C	3001050000000	0Ω
500	C816	T3H	3101080300010	3pF	1271	R565	B7C	3001050000000	0Ω
501	C817	T2H	3101064710000	470pF	1272	R566	B7C	3001050000000	0Ω
502	C818	B6E	3101063900060	39pF	1273	R567	B7C	3001050000000	0Ω
503	C82	T7F	3101051020010	1000pF	1274	R569	T2C	3001051030000	10kΩ
504	C820	T3F	3101073000010	30pF	1275	R570	T2C	3001064720000	4.7kΩ
505	C821	T2H	3101080200010	2pF	1276	R571	T6C	3001051030000	10kΩ
506	C822	B6E	3101062210000	220pF	1277	R573	T2C	3001054720000	4.7kΩ
507	C823	T2F	3101081800010	18pF	1278	R574	T2C	3001064720000	4.7kΩ
508	C825	B2F	3101074700050	47pF	1279	R575	T2B	3001053330010	33kΩ
509	C826	T5E	3210306180000	18nH	1280	R576	T2C	3001053330010	33kΩ
510	C827	T3I	3101084710010	470pF	1281	R577	T2B	3001061010000	100Ω
511	C829	B4E	3101061040010	0.1uF	1282	R578	B2B	3001061010000	100Ω
512	C83	T8F	3101051040010	0.1uF	1283	R579	B2B	3001061010000	100Ω
513	C830	T3H	3101080700010	7pF	1284	R580	B2C	3001061010000	100Ω
514	C833	T3F	3101080300010	3pF	1285	R581	B2C	3001061010000	100Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
515	C8330	T3F	3101081500010	15pF	1286	R6	T7F	3001050000000	0Ω
516	C835	T1H	3101080700010	7pF	1287	R6004	T5B	3001063320000	3.3kΩ
517	C836	T2H	3101080400010	4pF	1288	R6100	T4I	3001050000000	0Ω
518	C837	T2H	3101080700010	7pF	1289	R6101	T6I	3001056810000	680Ω
519	C838	T3I	3101080400010	4pF	1290	R6102	T5J	3001071000000	10Ω
520	C839	T5F	3101065620010	5600pF	1291	R6103	T5I	3001052730010	27kΩ
521	C84	T7F	3110071040000	0.1uF	1292	R6104	T5J	3001052720000	2.7kΩ
522	C840	T5F	3101074700050	47pF	1293	R6105	T5J	3001055620000	5.6kΩ
523	C841	T3F	3101373900000	39pF	1294	R6106	T4J	3001066810000	680Ω
524	C843	T5E	3001060000000	0Ω	1295	R6107	T5J	3001056810000	680Ω
525	C845	B4E	3101062210000	220pF	1296	R6108	T6J	3001054720000	4.7kΩ
526	C847	T2I	3101061510050	150pF	1297	R6109	T4J	3001063910000	390Ω
527	C848	T3J	3101061510050	150pF	1298	R6110	T5J	3001051220000	1.2kΩ
528	C85	T8E	3101051040010	0.1uF	1299	R6111	T4I	3001051040000	100kΩ
529	C850	B2I	3101084710010	470pF	1300	R6112	T6I	3001051040000	100kΩ
530	C851	T2I	3101080300010	3pF	1301	R6113	B4H	3001052740000	270kΩ
531	C852	T2H	3101061010010	100pF	1302	R6114	B4H	3001053300010	33Ω
532	C853	T5F	3101062210000	220pF	1303	R6115	B4H	3001051040000	100kΩ
533	C854	T5F	3101061040010	0.1uF	1304	R6116	B4H	3001060000000	0Ω
534	C857	T3J	3101062200010	22pF	1305	R6117	B7H	3001078200000	82Ω
535	C859	T5F	3101072700010	27pF	1306	R6118	B7H	3001053920010	3.9kΩ
536	C86	T7F	3101051040010	0.1uF	1307	R6119	B8H	3001051220000	1.2kΩ
537	C861	T2I	3101068200030	82pF	1308	R6120	T7I	3001055100010	51Ω
538	C863	T6E	3101064720000	4700pF	1309	R6121	B7H	3001051800000	18Ω
539	C864	T6E	3101063900060	39pF	1310	R6122	B7H	3001051220000	1.2kΩ
540	C865	T6F	3101062000000	20pF	1311	R6123	T4J	3001050000000	0Ω
541	C866	T6F	3101066800000	68pF	1312	R6124	B7I	3001052710000	270Ω
542	C868	B4H	3101061040010	0.1uF	1313	R6125	B7I	3001052710000	270Ω
543	C869	T5F	3101072700010	27pF	1314	R6126	B7H	3001078200000	82Ω
544	C87	T7E	3101051040010	0.1uF	1315	R6127	T4I	3001051030000	10kΩ
545	C873	T2F	3101080800010	8pF	1316	R6129	B7I	3001063310010	330Ω
546	C874	T1H	3101080300010	3pF	1317	R6130	T7I	3001055120030	5.1KΩ
547	C875	B4H	3101051510000	150pF	1318	R6131	T7I	3001051220000	1.2kΩ
548	C877	T6E	3101062210000	220pF	1319	R6132	T7I	3001055100010	51Ω
549	C878	T6F	3101062210000	220pF	1320	R6133	T7H	3001053310010	330Ω
550	C88	T7F	3110071040000	0.1uF	1321	R6134	T7H	3001053030000	30kΩ
551	C880	T6E	3101063330030	0.033uF	1322	R6135	T7H	3001054720000	4.7kΩ
552	C883	B4I	3101052210010	220pF	1323	R6136	T7H	3001052030000	20kΩ
553	C885	B2F	3101082700010	27pF	1324	R6137	T7I	3001053030000	30kΩ
554	C887	B5F	3101061020040	1000pF	1325	R6138	B8I	3001060000000	0Ω
555	C888	B2F	3101063300000	33pF	1326	R6139	T8H	3001055630000	56kΩ
556	C889	B2F	3101062200010	22pF	1327	R6140	T4I	3001060000000	0Ω
557	C89	T7F	3101051040010	0.1uF	1328	R701	T5I	3001055100010	51Ω
558	C890	B3I	3101052210010	220pF	1329	R703	T6G	3001052220010	2.2kΩ
559	C891	T2I	3101051210000	120pF	1330	R704	T6H	3001055610010	560Ω
560	C892	B5F	3101062210000	220pF	1331	R705	T6H	3001051030000	10kΩ
561	C893	T1H	3101081020010	1000pF	1332	R707	B6H	3001051810010	180Ω
562	C894	B4H	3101051830020	0.018uF	1333	R708	B6H	3001054720000	4.7kΩ
563	C895	B4I	3101052210010	220pF	1334	R709	B6H	3001061030010	10kΩ
564	C896	B3G	3101052210010	220pF	1335	R710	B6H	3001068220000	8.2kΩ
565	C897	B3G	3101052210010	220pF	1336	R711	T5G	3001053300010	33Ω
566	C898	B5C	3101052210010	220pF	1337	R712	B6H	3001052710010	270Ω
567	C899	T3J	3101051210000	120pF	1338	R713	T5H	3001051040000	100kΩ
568	C9	T8G	3101051590000	1.5pF	1339	R714	B5H	3001051820000	1.8kΩ
569	C90	T7F	3101051010030	100pF	1340	R715	T5G	3001053300010	33Ω
570	C900	T5C	3101061050020	1uF	1341	R716	B5H	3001055620000	5.6kΩ
571	C901	T5C	3101061050020	1uF	1342	R717	T5G	3001053300010	33Ω
572	C902	T2E	3101062200010	22pF	1343	R718	B5H	3001055110000	510Ω
573	C905	T2A	3101061050020	1uF	1344	R719	T5H	3001053300010	33Ω
574	C906	T2A	3101061050020	1uF	1345	R720	T5H	3001053300010	33Ω
575	C907	T4B	3101051040010	0.1uF	1346	R721	T5H	3001053300010	33Ω
576	C908	T5B	3101061050020	1uF	1347	R724	T5I	3001060000000	0Ω
577	C909	B2F	3101063310010	330pF	1348	R725	T5G	3001053300010	33Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
578	C91	T6F	3110071040000	0.1uF	1349	R727	T4H	3001064730000	47kΩ
579	C910	B4I	3101051020010	1000pF	1350	R728	T4H	3001064730000	47kΩ
580	C911	T3A	3101051040010	0.1uF	1351	R802	B5E	3001061530010	15kΩ
581	C912	T5C	3101072250100	2.2uF	1352	R803	B5E	3001062210000	220Ω
582	C913	B2F	3101064710000	470pF	1353	R808	B5E	3001061000000	10Ω
583	C914	T4D	3101092260010	22uF	1354	R809	B6E	3001061510000	150Ω
584	C915	T4C	3101082260020	22uF	1355	R810	B6E	3001066800000	68Ω
585	C916	T2E	3101063320000	3300pF	1356	R811	B5E	3001061530010	15kΩ
586	C917	T5D	3101071060010	10uF	1357	R813	T4F	3001084790000	4.7Ω
587	C918	T5D	3101052200010	22pF	1358	R814	B6E	3001066800000	68Ω
588	C919	T5C	3101072260000	22uF	1359	R815	T1I	3001082730000	27kΩ
589	C920	T4C	3101061030010	0.01uF	1360	R816	T2J	3001072210000	220Ω
590	C921	T5C	3101051040010	0.1uF	1361	R817	T2J	3001072210000	220Ω
591	C922	T5C	3101055600000	56pF	1362	R818	T4F	3001084790000	4.7Ω
592	C923	B4D	3101061050020	1uF	1363	R819	T3I	3001078200000	82Ω
593	C924	B4D	3101061050020	1uF	1364	R821	B2I	3001113300000	33Ω
594	C925	B4D	3101061050020	1uF	1365	R822	T3J	3001060000000	0Ω
595	C926	B7D	3101071060010	10uF	1366	R823	T2J	3001061010000	100Ω
596	C927	T4D	3101061040010	0.1uF	1367	R824	T5E	3101063900060	39pF
597	C928	T5H	3101081060010	10uF	1368	R825	T3I	3001113300000	33Ω
598	C93	T7F	3101051010030	100pF	1369	R826	T6F	3001060100000	1Ω
599	C930	B1F	3101061830000	0.018uF	1370	R827	T6E	3001062710000	270Ω
600	C931	T1E	3101062700010	27pF	1371	R828	T6F	3001060100000	1Ω
601	C932	T5C	3101062250000	2.2uF	1372	R829	T6F	3001068200000	82Ω
602	C933	B2A	3101092260010	22uF	1373	R830	B5E	3001074700000	47Ω
603	C934	B4D	3101062250000	2.2uF	1374	R831	B4H	3001051020000	1kΩ
604	C935	B5D	3101061040010	0.1uF	1375	R835	T6E	3001068200000	82Ω
605	C936	T5D	3101051010030	100pF	1376	R837	B4I	3001050000000	0Ω
606	C938	T4D	3101092260010	22uF	1377	R838	B4I	3001051530010	15kΩ
607	C94	T7F	3110071040000	0.1uF	1378	R839	B4H	3001053320000	3.3kΩ
608	C940	B1F	3101066800000	68pF	1379	R841	B4H	3001053330000	33kΩ
609	C942	T4B	3101053310020	330pF	1380	R842	B4I	3001051230000	12kΩ
610	C943	B1F	3101062700010	27pF	1381	R843	T6F	3001065620000	5.6kΩ
611	C944	B2B	3101051020010	1000pF	1382	R844	T6F	3001063620000	3.6kΩ
612	C945	B2A	3101054710010	470pF	1383	R845	T6E	3001062030000	20kΩ
613	C946	T5D	3101061050020	1uF	1384	R846	T6E	3001061030000	10kΩ
614	C947	T5B	3101051040010	0.1uF	1385	R847	B4H	3001054730000	47kΩ
615	C948	T4B	3101051040010	0.1uF	1386	R849	B4I	3001052220010	2.2kΩ
616	C949	B2G	3101058200000	82pF	1387	R852	T2I	3001064710000	470Ω
617	C95	T7F	3101051030020	0.01uF	1388	R853	T2I	3001064710000	470Ω
618	C950	T2D	3101051040010	0.1uF	1389	R854	B4I	3001055630000	56kΩ
619	C951	T4C	3110992270000	220uF	1390	R856	B4F	3001085100000	51Ω
620	C952	T3C	3101061030010	0.01uF	1391	R857	B4I	3001050000000	0Ω
621	C953	B3G	3001051830000	18kΩ	1392	R858	B5F	3001069120000	9.1kΩ
622	C955	T3D	3101051040010	0.1uF	1393	R859	B5F	3001061020010	1kΩ
623	C956	T3D	3101081060010	10uF	1394	R860	B4F	3001084790000	4.7Ω
624	C957	T3D	3101081060010	10uF	1395	R861	T4F	3001084790000	4.7Ω
625	C958	T3D	3101051040010	0.1uF	1396	R862	B6E	3001065600000	56Ω
626	C959	B2G	3101061040010	0.1uF	1397	R863	B2I	3001050000000	0Ω
627	C96	T7F	3101051020010	1000pF	1398	R864	B3G	3001054740010	470kΩ
628	C961	B3A	3101061040010	0.1uF	1399	R865	B4H	3001053930000	39kΩ
629	C962	B6D	3101051050000	1uF	1400	R866	B4I	3001052220010	2.2kΩ
630	C963	B7D	3101061040010	0.1uF	1401	R867	B4G	3001058220000	8.2kΩ
631	C965	B7D	3101062250000	2.2uF	1402	R869	B4H	3001051020000	1kΩ
632	C966	T5B	3101061050020	1uF	1403	R870	B4H	3001051230000	12kΩ
633	C968	B3B	3101051040010	0.1uF	1404	R872	B4H	3001051840000	180kΩ
634	C969	B3B	3101051040010	0.1uF	1405	R874	B4I	3001051020000	1kΩ
635	C97	T8F	3101051030020	0.01uF	1406	R875	B4I	3001053330000	33kΩ
636	C978	T7D	3101051040010	0.1uF	1407	R876	B3G	3001055630000	56kΩ
637	C979	T6D	3101051040010	0.1uF	1408	R877	B5E	3001054730000	47kΩ
638	C98	T8F	3101051040010	0.1uF	1409	R880	B5E	3001074720010	4.7kΩ
639	C980	T2D	3101081060010	10uF	1410	R881	B5E	3001074720010	4.7kΩ
640	C981	T4D	3101081060010	10uF	1411	R882	B4I	3001051540000	150kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
641	C982	T7C	3101051040010	0.1uF	1412	R883	B3G	3001055630000	56kΩ
642	C983	T7D	3101051050000	1uF	1413	R884	B3G	3001051030000	10kΩ
643	C984	T7D	3101051020010	1000pF	1414	R885	B3G	3001051030000	10kΩ
644	C99	T8F	3101052710000	270pF	1415	R886	B3G	3001052240000	220kΩ
645	C997	T7C	3101062240030	0.22uF	1416	R887	B4I	3001058210000	820Ω
646	D100	T7F	3303030800020	Switching diode	1417	R889	B5C	3001050000000	0Ω
647	D101	B7E	3304010100220	Varactor	1418	R890	B4H	3001053320000	3.3kΩ
648	D102	B7E	3304010100220	Varactor	1419	R891	B3G	3001053320000	3.3kΩ
649	D103	B3A	3303240000000	Switching diode	1420	R892	B3I	3001058230000	82kΩ
650	D105	B7F	3304010100220	Varactor	1421	R894	B4I	3001050000000	0Ω
651	D106	B7F	3304010100220	Varactor	1422	R895	B4H	3001055630000	56kΩ
652	D107	B7G	3304010100220	Varactor	1423	R896	T6G	3001057520000	7.5kΩ
653	D108	B6G	3304010100220	Varactor	1424	R897	B2G	3001054740010	470kΩ
654	D109	B7G	3304010100220	Varactor	1425	R898	B2G	3001054740010	470kΩ
655	D110	B6G	3304010100220	Varactor	1426	R899	B2G	3001054740010	470kΩ
656	D111	B7E	3304010100220	Varactor	1427	R902	B3G	3001050000000	0Ω
657	D112	B7E	3304010100220	Varactor	1428	R904	B5C	3001050000000	0Ω
658	D113	B7F	3304010100220	Varactor	1429	R905	B5C	3001053330000	33kΩ
659	D116	B7E	3304010100220	Varactor	1430	R906	T4H	3001064730000	47kΩ
660	D117	B7E	3304010100220	Varactor	1431	R908	T4H	3001054720000	4.7kΩ
661	D121	B7G	3304010100220	Varactor	1432	R910	T6D	3001054720000	4.7kΩ
662	D122	B7G	3304010100220	Varactor	1433	R911	T5B	3001061030000	10kΩ
663	D125	B7G	3304010100220	Varactor	1434	R913	T6D	3001054720000	4.7kΩ
664	D126	B7G	3304010100220	Varactor	1435	R917	T5D	3001053340010	330kΩ
665	D127	T7E	3303030100010	Switching diode	1436	R919	T5D	3001051540000	150kΩ
666	D128	B4I	3303030100010	Switching diode	1437	R924	B4D	3001061020010	1kΩ
667	D129	B5C	3303030800020	Switching diode	1438	R925	T5D	3001064720000	4.7kΩ
668	D230	B4C	3310240000000	ESD protection diode	1439	R929	B2A	3001051010000	100Ω
669	D231	B4C	3310240000000	ESD protection diode	1440	R930	B3A	3001051030000	10kΩ
670	D232	B7D	3310240000000	ESD protection diode	1441	R931	B3A	3001054730000	47kΩ
671	D233	T2B	3310240000000	ESD protection diode	1442	R932	B3A	3001052030000	20kΩ
672	D234	T5C	3310240200000	ESD protection diode	1443	R934	B3A	3001055130010	51kΩ
673	D236	T6C	3310240200000	ESD protection diode	1444	R937	B3B	3001054720000	4.7kΩ
674	D237	T4B	3310990000090	ESD protection diode	1445	R938	B3B	3001051030000	10kΩ
675	D238	T2C	3310240000000	ESD protection diode	1446	R940	B3B	3001052230010	22kΩ
676	D239	T5B	3310240200000	ESD protection diode	1447	R941	B3B	3001051020010	1kΩ
677	D240	T2A	3310240000000	ESD protection diode	1448	R942	B3B	3001054720000	4.7kΩ
678	D402	T2C	3310240000000	ESD protection diode	1449	R943	B2A	3001064730000	47kΩ
679	D403	T2A	3310240000000	ESD protection diode	1450	R944	B3B	3001052230010	22kΩ
680	D404	T2B	3310240000000	ESD protection diode	1451	R945	B3B	3001051030000	10kΩ
681	D405	T2B	3310240000000	ESD protection diode	1452	R946	B3A	3001071020000	1kΩ
682	D406	T2B	3310240000000	ESD protection diode	1453	R947	B3B	3001051020010	1kΩ
683	D407	T8B	3399040600010	ESD protection diode	1454	R948	B2A	3001051010000	100Ω
684	D408	B8C	3399040600010	ESD protection diode	1455	R949	B2A	3001054730000	47kΩ
685	D409	T2C	3310240000040	ESD protection diode	1456	R950	T3C	3001051030000	10kΩ
686	D410	B2B	3310240000040	ESD protection	1457	R951	B3A	3001053330000	33kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
				diode					
687	D450	T2C	3699037000010	USB protection IC	1458	R952	B3A	3001053330000	33kΩ
688	D6100	T4J	3399030000010	PIN diode	1459	R953	B3D	3001061000000	10Ω
689	D6101	T4J	3304010100890	Varactor	1460	R954	B6D	3001061020010	1kΩ
690	D6102	T4J	3304010100890	Varactor	1461	R955	B2A	3001052030000	20kΩ
691	D6103	T6J	3304010100890	Varactor	1462	R956	B2A	3001051840000	180kΩ
692	D6104	T6J	3304010100890	Varactor	1463	R957	B2A	3001051020010	1kΩ
693	D6105	T5J	3399990004910	Limiter diode	1464	R958	B3D	3001066810000	680Ω
694	D6106	B7J	3699019000000	Mixer IC	1465	R959	B2A	3001056830000	68kΩ
695	D6204	B3A	3303030100010	Switching diode	1466	R961	B3D	3001083310010	330Ω
696	D701	B6G	3304010100220	Varactor	1467	R962	T3C	3001060000000	0Ω
697	D702	B5H	3304010100180	Varactor	1468	R963	T3C	3001060000000	0Ω
698	D801	T1H	3303990000020	Switching diode	1469	R964	T3C	3001052220010	2.2kΩ
699	D802	T2I	3303990000020	Switching diode	1470	R965	T3C	3001060000000	0Ω
700	D803	T3J	3303030300000	Schottky diode	1471	R966	B2D	3001161510010	150Ω
701	D804	T2I	3303030300000	Schottky diode	1472	R968	T2C	3001052220000	2.2kΩ
702	D805	B4H	3302030500030	Zener diode	1473	R969	T2C	3001064730000	47kΩ
703	D900	T2D	3399100000010	TVS diode	1474	R970	T2C	3001061020010	1kΩ
704	D902	T4C	3301100300030	Rectifier diode	1475	R971	T3C	3099052741000	2.74kΩ
705	D910	B2A	3302030500010	Zener diode	1476	R972	T3C	3001062220000	2.2kΩ
706	D911	B2A	3302030500010	Zener diode	1477	R974	B3A	3001062720000	2.7kΩ
707	D914	B3A	3303240000000	Switching diode	1478	R975	B3A	3001052030000	20kΩ
708	D915	T3C	3303010500290	Switching diode	1479	R976	T7D	3001050000000	0Ω
709	D916	T2A	3303010500090	Switching diode	1480	R978	B3A	3001052720000	2.7kΩ
710	D917	T3C	3302030500030	Zener diode	1481	R979	T6C	3001051030000	10kΩ
711	D918	T3C	3302030500030	Zener diode	1482	R980	T6C	3001051040000	100kΩ
712	D919	T2A	3303010500090	Switching diode	1483	R981	B3A	3001051030000	10kΩ
713	D920	B2B	3303240000000	Switching diode	1484	R982	T3C	3001051040000	100kΩ
714	D921	T2A	3302030500030	Zener diode	1485	R983	T6D	3001050000000	0Ω
715	D922	T7C	3303010500090	Switching diode	1486	R984	B3A	3001052210000	220Ω
716	F900	B2B	4002000000340	Fuse	1487	R985	T6C	3001050000000	0Ω
717	J400	T8C	5201020200030	Board-to-board connector	1488	R986	T6D	3001050000000	0Ω
718	J404	B8C	5206040200010	FFC connector	1489	R987	T7C	3001050000000	0Ω
719	L1	B7F	3213212332000	3.3uH	1490	RN230	B6C	3005051010010	100Ω
720	L103	B7E	3217607471000	470nH	1491	RN500	B7B	3005051010010	100Ω
721	L105	B7E	3237199120000	Air-core coil 12.5nH	1492	RT804	B3G	3003061040000	100kΩ
722	L106	B7E	3214307390000	39nH	1493	S1	/	6202720000010	PA heat sink pad
723	L107	B7E	3217607471000	470nH	1494	T6100	B7J	3259999999080	Transformer
724	L108	B6E	3217607471000	470nH	1495	T6101	B8J	3259999999080	Transformer
725	L110	B7F	3217607471000	470nH	1496	U100	T8F	3604019000000	PLL IC
726	L112	B6E	3217607471000	470nH	1497	U101	T7F	3616059000000	Switch IC
727	L114	B7F	3237199120000	12.5nH	1498	U102	T7E	3616059000000	Switch IC
728	L115	B7F	3217607330000	33nH	1499	U201	B5B	3602017000030	Audio amplification IC
729	L116	B7E	3217607471000	470nH	1500	U231	B6C	3613010000000	Baseband IC
730	L117	B7G	3217607471000	470nH	1501	U232	T5B	3612024000020	Memory
731	L118	B8G	3217607471000	470nH	1502	U233	T6A	3612016000000	Memory
732	L121	B7F	3217607471000	470nH	1503	U235	B5C	3605010000020	Operational amplifier
733	L122	T8G	3210306180000	18nH	1504	U236	B4C	3605010000020	Operational amplifier
734	L123	T7G	3210306180000	18nH	1505	U237	B6B	3616010000000	Switch IC
735	L124	B7G	3237199190000	Air-core coil 18.5nH	1506	U238	B6A	3605008005070	Operational amplifier
736	L126	B7G	3214307390000	39nH	1507	U302	T6B	3610010000010	MCU
737	L127	B7G	3217607471000	470nH	1508	U326	T3B	3625999000060	GPS module
738	L128	T8G	3210306330000	33nH	1509	U327	T6D	3607010000400	Logic IC
739	L129	B6G	3217607471000	470nH	1510	U328	B2C	3607010000400	Logic IC
740	L131	T7E	3221506601000	Ferrite bead	1511	U401	B2B	3616010000150	Switch IC
741	L132	T7E	3210306330000	33nH	1512	U500	B7C	3606010000010	D/A conversion IC
742	L133	B6G	3217607471000	470nH	1513	U6000	B4H	3605002057090	Operational

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
									amplifier
743	L134	B7G	3217607471000	470nH	1514	U701	T5H	3603999000000	IF IC
744	L135	T7E	3210306330000	33nH	1515	U702	T4I	3608006000000	Power management IC
745	L136	T6E	3210306180000	18nH	1516	U703	T4H	3608015000060	Power management IC
746	L137	B7G	3237199190000	Air-core coil 18.5nH	1517	U801	B4H	3605025000020	Operational amplifier
747	L138	T7E	3210306330000	33nH	1518	U802	B4H	3605002054590	Operational amplifier
748	L139	B7G	3214307390000	39nH	1519	U804	B3G	3605008005070	Operational amplifier
749	L140	B7G	3217607471000	470nH	1520	U900	T5C	3608015000180	Power management IC
750	L147	T7B	3210406471000	470nH	1521	U901	T2A	3608015000180	Power management IC
751	L151	T7B	3210406471000	470nH	1522	U902	T5C	3608010000350	Power management IC
752	L152	B7F	3221506601000	Ferrite bead	1523	U903	T5B	3608015000170	Power management IC
753	L154	T8F	3213306561000	0.56uH	1524	U905	B4D	3608015000060	Power management IC
754	L156	T7F	3213212332000	3.3uH	1525	U907	T6D	3626999000020	Reset IC
755	L162	T7G	3210306560000	56nH	1526	U909	B4D	3608015000180	Power management IC
756	L166	T7G	3210306560000	56nH	1527	U910	T7C	3626015000010	Reset IC
757	L167	B8G	3210306270000	27nH	1528	U914	T3C	3605008005070	Operational amplifier
758	L168	B8E	3210306270000	27nH	1529	U915	B7D	3608015000060	Power management IC
759	L169	T8G	3210306560000	56nH	1530	U917	B2A	3609006003050	Reset IC
760	L171	T7G	3210306150000	15nH	1531	U918	B7D	3608015000210	Power management IC
761	L173	T7G	3212106120000	12nH	1532	U919	T5D	3608010006230	Power management IC
762	L2	T7E	3210306180000	18nH	1533	W321	T3A	4411100002000	IPX RF connector
763	L232	B4C	3221506300000	Ferrite bead	1534	X100	T8E	3701019250030	TCXO
764	L233	B5C	3211506101000	Ferrite bead	1535	X302	T7B	3701019250040	TCXO
765	L234	B5D	3211506101000	Ferrite bead	1536	X375	T7B	3701327610060	Crystal
766	L235	B5D	3211506101000	Ferrite bead	1537	Z6100	T8I	3802733540030	Crystal filter
767	L321	T3A	3212106390000	39nH	1538	/	/	3210306150000	15nH
768	L322	T3A	3221506300000	Ferrite bead	1539	/	/	9830000000001	Voice encoding/decoding software
769	L4	B8F	3217607471000	470nH	1540	/	/	41MD7801000L0	PCB main board
770	L401	B7A	3221506300000	Ferrite bead	1541	/	/	1616100001420	Built-in software
771	L402	B7A	3221506300000	Ferrite bead	/	/	/	/	/

12.4 Main Board (45 W)

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	B	/	6203077000000	VCO shielding mask	778	L4	B8F	3217607471000	470nH
2	C	/	6202010000010	APC shielding mask	779	L401	B7A	3221506300000	Ferrite bead
3	C1	T7E	3101051020010	1000pF	780	L402	B7A	3221506300000	Ferrite bead
4	C10	B7G	3101060900010	9pF	781	L403	B7A	3221506300000	Ferrite bead
5	C100	T7G	3101052210010	220pF	782	L404	B7A	3221506300000	Ferrite bead
6	C1000	T8F	3101052210010	220pF	783	L405	B7A	3221506300000	Ferrite bead
7	C1001	B7F	3101054710010	470pF	784	L406	B7A	3221506300000	Ferrite bead
8	C1002	T8F	3101051020010	1000pF	785	L407	B7B	3221506300000	Ferrite bead

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
9	C1003	B7F	3101054710010	470pF	786	L408	B7B	3221506300000	Ferrite bead
10	C1004	T8F	3101063300000	33pF	787	L409	B7B	3221506300000	Ferrite bead
11	C1005	T6F	3110071040000	0.1uF	788	L410	B7B	3221506300000	Ferrite bead
12	C1006	B8F	3101051040010	0.1uF	789	L411	B7B	3221506300000	Ferrite bead
13	C1007	T6F	3110071040000	0.1uF	790	L412	B7B	3221506300000	Ferrite bead
14	C101	T7E	3101050200010	2pF	791	L414	B8C	3001050000000	0Ω
15	C1010	T7F	3101051020010	1000pF	792	L415	B8C	3001050000000	0Ω
16	C1015	B7F	3101054710010	470pF	793	L417	T2C	3001050000000	0Ω
17	C1016	T7F	3101065630000	0.056uF	794	L418	T2C	3001050000000	0Ω
18	C102	T7G	3101061200000	12pF	795	L5	B7E	3217607471000	470nH
19	C11	T7E	3101050500030	5pF	796	L6	T8F	3221506601000	Ferrite bead
20	C12	B7G	3101053690000	3.6pF	797	L6100	T6I	3211506101000	Ferrite bead
21	C121	T7F	3101051010030	100pF	798	L6101	T4I	3211506101000	Ferrite bead
22	C122	T7F	3101061040010	0.1uF	799	L6102	T5I	3210306221000	220nH
23	C123	T7F	3101062240000	0.22uF	800	L6103	T6J	3212106270000	27nH
24	C13	B7E	3101054090010	4pF	801	L6110	T5J	3210306220000	22nH
25	C132	T7F	3101062240000	0.22uF	802	L6114	B4I	3211506101000	Ferrite bead
26	C1320	T8F	3101051010030	100pF	803	L6115	B7H	3211506101000	Ferrite bead
27	C136	B7E	3101074750010	4.7uF	804	L6116	B8H	3210306270000	27nH
28	C14	T7E	3101051200020	12pF	805	L6117	B8I	3210306220000	22nH
29	C141	B7F	3101051040010	0.1uF	806	L6118	B8I	3210306220000	22nH
30	C142	B7F	3101054710010	470pF	807	L6119	B8I	3210306220000	22nH
31	C147	B8F	3101052210010	220pF	808	L6120	T7I	3210306470000	47nH
32	C148	B7H	3101054710010	470pF	809	L6121	T7I	3211506101000	Ferrite bead
33	C149	B7H	3101051040010	0.1uF	810	L6122	T7I	3101061040010	0.1uF
34	C15	T7E	3101051200020	12pF	811	L6123	T7H	3213306821000	0.82uH
35	C150	B8G	3101052210010	220pF	812	L6125	T8I	3210406331000	330nH
36	C151	B7F	3101061200000	12pF	813	L6126	T8H	3101061040010	0.1uF
37	C152	B7E	3101054090010	4pF	814	L6216	T6J	3210305270000	27nH
38	C153	B7F	3101053900000	39pF	815	L6217	T6J	3210305270000	27nH
39	C154	B7G	3101054700010	47pF	816	L7	T7G	3221506601000	Ferrite bead
40	C155	B7G	3101060900010	9pF	817	L701	T6H	3221506601000	Ferrite bead
41	C156	B6E	3101052210010	220pF	818	L702	T6H	3221506601000	Ferrite bead
42	C157	B7F	3101055600000	56pF	819	L703	T6H	3221506601000	Ferrite bead
43	C158	B7F	3101051800070	18pF	820	L704	T5I	3213212103000	10uH
44	C159	B7F	3101050500030	5pF	821	L705	T5I	3213212103000	10uH
45	C16	T6E	3101051000030	10pF	822	L706	T4H	3221506601000	Ferrite bead
46	C160	B6G	3101052210010	220pF	823	L707	T5I	3221506601000	Ferrite bead
47	C161	B7G	3101055600000	56pF	824	L708	B6H	3217107221010	220nH
48	C162	B7G	3101052000020	20pF	825	L709	T5G	3221506601000	Ferrite bead
49	C163	B8F	3101051040010	0.1uF	826	L710	T5H	3221506601000	Ferrite bead
50	C164	B7G	3101050500030	5pF	827	L711	T5H	3221506601000	Ferrite bead
51	C165	B7G	3101050600010	6pF	828	L712	T6I	3221506601000	Ferrite bead
52	C166	B8F	3101050500010	5pF	829	L713	T5G	3213306561000	0.56uH
53	C167	B8G	3101051040010	0.1uF	830	L714	T5H	3221506601000	Ferrite bead
54	C168	B8G	3101050500010	5pF	831	L715	B5H	3213212332000	3.3uH
55	C17	T7E	3101061000000	10pF	832	L716	T6H	3210406331000	330nH
56	C177	B7F	3101060300010	3pF	833	L717	T6G	3212206682000	6.8uH
57	C178	T7G	3101060200010	2pF	834	L718	B6H	3210406471000	470nH
58	C179	T7G	3101060200010	2pF	835	L8	T8F	3221506601000	Ferrite bead
59	C18	B7G	3101050500030	5pF	836	L801	B2F	3221513600000	Ferrite bead
60	C181	B7E	3101050590010	0.5pF	837	L802	T5E	3221513600000	Ferrite bead
61	C184	B6E	3101052210010	220pF	838	L803	B2F	3221513600000	Ferrite bead
62	C185	B7E	3101055600000	56pF	839	L804	T2F	3233099160000	Air-core coil 16nH
63	C186	B7F	3101052210010	220pF	840	L805	B5E	3210306220000	22nH
64	C189	T7G	3101061200000	12pF	841	L806	B3G	3213306102000	1uH
65	C191	B7E	3101051500080	15pF	842	L807	T1H	3210306221000	220nH
66	C192	T7F	3101060800010	8pF	843	L808	T1G	3001080000000	0Ω
67	C193	B7E	3101052700000	27pF	844	L809	T2H	3233099160000	Air-core coil 16nH
68	C194	B7E	3101052210010	220pF	845	L810	T3H	3233099160000	Air-core coil 16nH
69	C195	B7E	3101051040010	0.1uF	846	L811	B6E	3215006100010	10nH
70	C196	B7E	3101060700020	7pF	847	L813	T3H	3233099160000	Air-core coil 16nH
71	C197	B6G	3101052210010	220pF	848	L814	T5E	3212106689000	6.8nH

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
72	C198	B7E	3101054090010	4pF	849	L815	B2I	3221506601000	Ferrite bead
73	C199	T7E	3101051030020	0.01uF	850	L816	B2H	3233099111000	Air-core coil 111nH
74	C2	T6E	3101060300010	3pF	851	L817	T2I	3233099160000	Air-core coil 16nH
75	C20	T8G	3101061000000	10pF	852	L819	T5F	3233099470000	Air-core coil 47nH
76	C200	B5D	3101061050020	1uF	853	L820	T5E	3217112102020	1uH
77	C22	T7H	3101052200010	22pF	854	L821	B4H	3221506601000	Ferrite bead
78	C23	B8E	3101052210010	220pF	855	L822	B5E	3221506601000	Ferrite bead
79	C232	B4C	3101051040010	0.1uF	856	L823	T6F	3210306479000	4.7nH
80	C233	B4C	3101051040010	0.1uF	857	L824	T6F	3221506601000	Ferrite bead
81	C234	B4C	3101081060010	10uF	858	L825	T6E	3221506601000	Ferrite bead
82	C235	B4C	3101051030020	0.01uF	859	L826	T5E	3101060800010	8pF
83	C236	B6C	3101051040010	0.1uF	860	L827	T6E	3212106390000	39nH
84	C237	B5B	3101054740020	0.47uF	861	L828	T1J	3217112102020	1uH
85	C238	B5D	3101061050020	1uF	862	L829	T5F	3101072210010	220pF
86	C239	B6C	3101051040010	0.1uF	863	L830	T5F	3101072210010	220pF
87	C24	B8E	3101051040010	0.1uF	864	L832	T3I	3212106100000	10nH
88	C240	B6D	3101051040010	0.1uF	865	L833	T2J	3101074700050	47pF
89	C241	B5B	3001060000000	0Ω	866	L9	T7G	3221506601000	Ferrite bead
90	C242	B6B	3101062210000	220pF	867	L900	T4B	3221513600000	Ferrite bead
91	C243	B6B	3101051040010	0.1uF	868	L901	T5B	3221506300000	Ferrite bead
92	C245	B6A	3101062210000	220pF	869	L902	T4C	3217699153000	15uH
93	C246	B6B	3101052230000	0.022uF	870	L903	T5C	3213099472000	4.7uH
94	C247	B5C	3101052210010	220pF	871	L904	B4D	3221506181000	Ferrite bead
95	C248	B6C	3101051040010	0.1uF	872	L906	B2B	3221513600000	Ferrite bead
96	C249	B5C	3101061050020	1uF	873	L908	B5D	3221506181000	Ferrite bead
97	C25	B8E	3101050500010	5pF	874	L909	T7A	3221506181000	Ferrite bead
98	C250	B5B	3101052210010	220pF	875	L912	T5C	3221506300000	Ferrite bead
99	C251	B5D	3101061050020	1uF	876	L913	T6C	3221506300000	Ferrite bead
100	C252	B5B	3101061050020	1uF	877	L916	T3D	3221513600000	Ferrite bead
101	C253	B5B	3101061050020	1uF	878	L930	T4D	3241799103000	Power inductor 10uH
102	C254	B5C	3101052210010	220pF	879	L931	T5D	3213099472000	4.7uH
103	C255	B5C	3101051050000	1uF	880	L940	T2D	3221513600000	Ferrite bead
104	C256	B5D	3101051010030	100pF	881	Q100	B7E	3408002000080	NPN transistor
105	C257	B5C	3101061050020	1uF	882	Q101	B8E	3403999000000	Transistor
106	C258	B5C	3101051040010	0.1uF	883	Q102	T7E	3401002000990	NPN transistor
107	C259	B5D	3101061050020	1uF	884	Q103	B7F	3408002000080	NPN transistor
108	C26	B7E	3101062590010	2.5pF	885	Q104	B7F	3403003000060	NPN transistor
109	C260	B5C	3101051030020	0.01uF	886	Q105	B8F	3403999000000	Transistor
110	C261	B5C	3101051030020	0.01uF	887	Q106	B7G	3408002000080	NPN transistor
111	C262	B5D	3101061050020	1uF	888	Q107	T7E	3404006000000	NPN transistor
112	C263	B5C	3101061050020	1uF	889	Q108	B8F	3403999000000	Transistor
113	C264	B5B	3101061050020	1uF	890	Q109	T7G	3404006000000	NPN transistor
114	C265	B5B	3101052210010	220pF	891	Q110	B7G	3408002000080	NPN transistor
115	C266	B5C	3101061050020	1uF	892	Q111	T8G	3401002000990	NPN transistor
116	C267	B5D	3101051040010	0.1uF	893	Q112	B8H	3403999000000	Transistor
117	C268	B6A	3101064740010	0.47uF	894	Q116	T7G	3403999000000	Transistor
118	C269	B5C	3101052210010	220pF	895	Q117	T6E	3403999000000	Transistor
119	C27	B7E	3101050590010	0.5pF	896	Q230	B6A	3499000000150	Transistor
120	C270	B5D	3101052210010	220pF	897	Q231	B5C	3499000000150	Transistor
121	C271	B5D	3101052210010	220pF	898	Q232	B5D	3499000000150	Transistor
122	C272	B5D	3101052210010	220pF	899	Q233	B4B	3499000000150	Transistor
123	C273	B5D	3101052210010	220pF	900	Q234	B4C	3499000000150	Transistor
124	C274	B5D	3101051040010	0.1uF	901	Q235	B4C	3499000000150	Transistor
125	C275	B4B	3101071060010	10uF	902	Q323	T7C	3403008000010	Transistor
126	C276	B4B	3101051050000	1uF	903	Q400	B2A	3403002000000	PNP transistor
127	C277	B4B	3101061050020	1uF	904	Q401	B2A	3403008000010	Transistor
128	C278	B4C	3101061050020	1uF	905	Q402	T2B	3403008000010	Transistor
129	C279	B4C	3101061050020	1uF	906	Q403	B2A	3403008000010	Transistor
130	C28	B7E	3101052210010	220pF	907	Q404	B2B	3403008000010	Transistor
131	C280	B4C	3101052210010	220pF	908	Q405	T2A	3403008000010	Transistor
132	C281	B4C	3101061050020	1uF	909	Q406	B2C	3414999000000	Transistor
133	C282	B4C	3101061050020	1uF	910	Q407	B2B	3414999000000	Transistor

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
134	C283	B6A	3101061040010	0.1uF	911	Q408	B2B	3414999000000	Transistor
135	C284	B5B	3101092260010	22uF	912	Q409	B2C	3414999000000	Transistor
136	C285	B5A	3101051040010	0.1uF	913	Q410	B2C	3414999000000	Transistor
137	C286	B5D	3101081060010	10uF	914	Q411	T2B	3414999000000	Transistor
138	C287	B5A	3101064740000	0.47uF	915	Q412	T2C	3414999000000	Transistor
139	C288	B5B	3101051010030	100pF	916	Q413	T6C	3403008000010	Transistor
140	C289	B6A	3101061040010	0.1uF	917	Q414	T2C	3414999000000	Transistor
141	C29	B8F	3101052210010	220pF	918	Q415	T2C	3599990000710	P-MOSFET
142	C290	B6B	3101061050020	1uF	919	Q416	T2C	3414001000020	PNP transistor
143	C291	B6B	3101061050020	1uF	920	Q6100	T4J	3499000000150	Transistor
144	C292	B5C	3101064750030	4.7uF	921	Q6101	T5I	3403014000020	Transistor
145	C293	B6B	3101071060010	10uF	922	Q6102	T5J	3404999000000	NPN transistor
146	C294	B5A	3101063340010	0.33uF	923	Q6103	B8I	3404999000000	NPN transistor
147	C295	B5C	3101051010030	100pF	924	Q6104	T7I	3404006000000	NPN transistor
148	C296	B5A	3101051010030	100pF	925	Q6105	T7H	3404006000000	NPN transistor
149	C297	B4C	3101064710000	470pF	926	Q701	B6H	3408002000000	NPN transistor
150	C298	B5D	3101061050020	1uF	927	Q702	B6H	3403003000060	NPN transistor
151	C299	B5D	3101061050020	1uF	928	Q801	B6E	3404999000000	NPN transistor
152	C3	B7G	3101055600000	56pF	929	Q802	T4G	3601017000000	RF PA module
153	C30	B8F	3101051040010	0.1uF	930	Q803	T4F	3601017000000	RF PA module
154	C300	B4C	3101061040010	0.1uF	931	Q804	T5F	3504990000070	N-MOSFET
155	C301	B5A	3101092260010	22uF	932	Q805	T5E	3504990000010	PA MOSFET
156	C302	B5D	3101054710010	470pF	933	Q810	B5E	3403002000000	PNP transistor
157	C303	B5B	3101051040010	0.1uF	934	Q811	B5E	3403008000010	Transistor
158	C305	B5B	3101051050000	1uF	935	Q812	B4G	3403008000010	Transistor
159	C306	B5B	3101051030020	0.01uF	936	Q813	B4G	3403008000010	Transistor
160	C307	B5B	3101051010030	100pF	937	Q902	T4H	3403002000000	PNP transistor
161	C308	B7A	3101051040010	0.1uF	938	Q903	T5H	3403008000010	Transistor
162	C309	B7A	3101051010030	100pF	939	Q905	B3A	3499000000150	Transistor
163	C31	B7F	3101060300010	3pF	940	Q906	B3B	3414001000020	PNP transistor
164	C310	T6A	3101051050000	1uF	941	Q908	B3B	3403008000010	Transistor
165	C311	B5B	3101051040010	0.1uF	942	Q909	B3B	3403002000010	PNP transistor
166	C32	B8G	3101050500010	5pF	943	Q910	B3B	3414001000020	PNP transistor
167	C325	T8B	3101051040010	0.1uF	944	Q912	B3A	3403008000010	Transistor
168	C326	T6C	3101051010030	100pF	945	Q913	B2A	3403008000010	Transistor
169	C329	T6D	3101051040010	0.1uF	946	Q914	B3B	3403008000010	Transistor
170	C33	B8G	3101051010030	100pF	947	Q916	B2A	3599990000610	N-MOSFET
171	C330	T3A	3101051040010	0.1uF	948	Q921	B2E	3404999000020	NPN transistor
172	C331	T2A	3101071060010	10uF	949	Q922	T2C	3403008000010	Transistor
173	C332	T2A	3101051040010	0.1uF	950	Q923	T2C	3403008000010	Transistor
174	C333	T3A	3101071060010	10uF	951	R1	T8G	3001054700000	47Ω
175	C334	T8D	3101051040010	0.1uF	952	R109	T8F	3001051000000	10Ω
176	C335	B6B	3101051010030	100pF	953	R111	T7F	3001065600000	56Ω
177	C336	T7A	3101051040010	0.1uF	954	R1110	T8G	3001053300010	33Ω
178	C337	T7B	3101051020010	1000pF	955	R114	T7F	3001065100000	51Ω
179	C338	T7B	3101051020010	1000pF	956	R117	B7E	3001053930000	39kΩ
180	C339	B7B	3101051010030	100pF	957	R120	B7E	3001053930000	39kΩ
181	C34	B8E	3101051010030	100pF	958	R122	B8E	3001052700010	27Ω
182	C340	T7A	3101051040010	0.1uF	959	R123	B8G	3001052700010	27Ω
183	C341	B6B	3101051010030	100pF	960	R128	B7E	3001058230000	82kΩ
184	C342	B6C	3101051010030	100pF	961	R129	B8E	3001052210000	220Ω
185	C343	T7C	3101051010030	100pF	962	R130	B8G	3001052210000	220Ω
186	C344	T7D	3101051010030	100pF	963	R131	B8F	3001056820010	6.8kΩ
187	C345	T7C	3101051010030	100pF	964	R132	B8G	3001053920000	3.9kΩ
188	C346	T7C	3101051010030	100pF	965	R135	B8E	3001052210000	220Ω
189	C347	T6D	3101051010030	100pF	966	R136	B8G	3001052210000	220Ω
190	C348	T6C	3101051010030	100pF	967	R137	B7E	3001061210000	120Ω
191	C349	T6C	3101051010030	100pF	968	R138	B7F	3001057520000	7.5kΩ
192	C350	T6C	3101051010030	100pF	969	R139	B7E	3001061210000	120Ω
193	C351	T6C	3101051010030	100pF	970	R140	B7E	3001051010040	100Ω
194	C352	T6C	3101051010030	100pF	971	R141	T7E	3001054700000	47Ω
195	C353	T6C	3101051010030	100pF	972	R142	B8E	3001056820010	6.8kΩ
196	C354	T6C	3101051010030	100pF	973	R143	B8E	3001057520000	7.5kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
197	C355	B6C	3101051010030	100pF	974	R144	B7G	3001061510000	150Ω
198	C356	T7C	3101051040010	0.1uF	975	R145	B7E	3001051010040	100Ω
199	C357	T6C	3101051010030	100pF	976	R146	T7E	3001051010040	100Ω
200	C358	T7D	3101051010030	100pF	977	R147	T7E	3001051010040	100Ω
201	C359	B7D	3101051010030	100pF	978	R148	T8G	3001051010040	100Ω
202	C360	B7D	3101051010030	100pF	979	R151	T7E	3001051530010	15kΩ
203	C361	B7D	3101051010030	100pF	980	R152	T7E	3001053630000	36kΩ
204	C362	T7B	3101058200000	82pF	981	R153	B8E	3221506601000	Ferrite bead
205	C363	T7B	3101058200000	82pF	982	R155	T7E	3001052030000	20kΩ
206	C364	T7B	3101053900000	39pF	983	R156	T7E	3001050000000	0Ω
207	C365	T7B	3101058200000	82pF	984	R157	B8F	3221506601000	Ferrite bead
208	C366	T6D	3101051040010	0.1uF	985	R158	B8F	3001053920000	3.9kΩ
209	C367	T7A	3101071060010	10uF	986	R159	B7F	3001051030000	10kΩ
210	C368	T7A	3101054710010	470pF	987	R160	B7G	3001051010040	100Ω
211	C369	T3C	3101054710010	470pF	988	R161	T7E	3001051830000	18kΩ
212	C375	T7B	3101052000020	20pF	989	R167	T8G	3001053300010	33Ω
213	C376	T7C	3101052000020	20pF	990	R171	T7F	3001060000000	0Ω
214	C378	B7B	3101051010030	100pF	991	R174	T8E	3001050000000	0Ω
215	C379	B6B	3101051040010	0.1uF	992	R175	T7F	3001051000000	10Ω
216	C380	B7B	3101051040010	0.1uF	993	R176	B7F	3001054720000	4.7kΩ
217	C381	B6C	3101051030020	0.01uF	994	R177	T7F	3001051030000	10kΩ
218	C382	B6C	3101051040010	0.1uF	995	R178	T8G	3001053300010	33Ω
219	C383	B6C	3101051040010	0.1uF	996	R179	B8F	3221506601000	Ferrite bead
220	C384	B6B	3101051030020	0.01uF	997	R180	T6F	3001051030000	10kΩ
221	C385	B6B	3101051010030	100pF	998	R181	T7F	3001051020000	1kΩ
222	C386	B6B	3101051040010	0.1uF	999	R183	T7F	3001051020000	1kΩ
223	C387	B7B	3101051040010	0.1uF	1000	R186	B8G	3221506601000	Ferrite bead
224	C388	B7C	3101051040010	0.1uF	1001	R187	T7F	3001061000000	10Ω
225	C389	B7B	3101051040010	0.1uF	1002	R188	T8F	3001050000000	0Ω
226	C390	B6C	3101051010030	100pF	1003	R190	T7G	3001051010040	100Ω
227	C391	T7C	3101051040010	0.1uF	1004	R192	B7G	3001061810000	180Ω
228	C392	B6C	3101051040010	0.1uF	1005	R194	B8H	3001051230000	12kΩ
229	C393	B6C	3101051040010	0.1uF	1006	R195	T7G	3001052730010	27kΩ
230	C394	B7B	3101051040010	0.1uF	1007	R196	B7G	3001051010040	100Ω
231	C396	T6B	3101061050020	1uF	1008	R197	T7H	3001050000000	0Ω
232	C398	B6B	3101051040010	0.1uF	1009	R198	T7G	3001051530010	15kΩ
233	C399	B6B	3101051030020	0.01uF	1010	R199	T8G	3001051240000	120kΩ
234	C4	B7G	3101052000020	20pF	1011	R2	T8E	3001060000000	0Ω
235	C400	B7B	3101051040010	0.1uF	1012	R202	B5D	3001051030000	10kΩ
236	C402	T6C	3101071060010	10uF	1013	R231	B6C	3001053300010	33Ω
237	C407	T8C	3101051040010	0.1uF	1014	R232	B6D	3001053300010	33Ω
238	C409	T7C	3101051010030	100pF	1015	R234	B6C	3001051030000	10kΩ
239	C410	T8C	3101051010030	100pF	1016	R235	B6C	3001051030000	10kΩ
240	C411	T8C	3101051010030	100pF	1017	R236	B5D	3001051030000	10kΩ
241	C412	T8C	3101051010030	100pF	1018	R237	B5A	3001055630000	56kΩ
242	C413	T7C	3101051010030	100pF	1019	R238	B5B	3001053320000	3.3kΩ
243	C414	T7C	3101051010030	100pF	1020	R239	B6B	3001055620000	5.6kΩ
244	C415	T7C	3101051010030	100pF	1021	R240	T6D	3001053320000	3.3kΩ
245	C416	T7C	3101051010030	100pF	1022	R241	B5A	3001055630000	56kΩ
246	C417	T8C	3101051010030	100pF	1023	R242	B6C	3001050000000	0Ω
247	C418	T8C	3101051010030	100pF	1024	R244	B5C	3001052230010	22kΩ
248	C419	B8D	3101051010030	100pF	1025	R246	B5C	3001052230010	22kΩ
249	C42	B8E	3101050100030	1pF	1026	R247	B5B	3001051040010	100kΩ
250	C420	B8D	3101051010030	100pF	1027	R248	B5B	3001051040010	100kΩ
251	C421	T2C	3101052210010	220pF	1028	R250	B5B	3001051530000	15kΩ
252	C422	T2B	3101051040010	0.1uF	1029	R251	B5B	3001051010000	100Ω
253	C423	T2C	3101052210010	220pF	1030	R252	B5C	3001051040010	100kΩ
254	C424	T2A	3101052210010	220pF	1031	R255	B5D	3001064710000	470Ω
255	C425	T2A	3101052210010	220pF	1032	R257	B5C	3001053030010	30kΩ
256	C426	T2B	3101051010030	100pF	1033	R258	B5C	3001051030000	10kΩ
257	C427	T2C	3101051010030	100pF	1034	R259	B5C	3001051030000	10kΩ
258	C428	T2C	3101051010030	100pF	1035	R260	B5C	3001051010000	100Ω
259	C429	T2C	3101051010030	100pF	1036	R261	B5C	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
260	C430	T2A	3101051010030	100pF	1037	R262	B5B	3001051040010	100kΩ
261	C431	T2A	3101051010030	100pF	1038	R263	B5B	3001053030010	30kΩ
262	C432	T2B	3101052210010	220pF	1039	R264	B5D	3001051020010	1kΩ
263	C433	T2B	3101052210010	220pF	1040	R265	B4B	3001051820000	1.8kΩ
264	C434	T2B	3101052210010	220pF	1041	R266	B4B	3001054730000	47kΩ
265	C435	B8D	3101051010030	100pF	1042	R267	B5D	3001051020010	1kΩ
266	C436	T2C	3101052210010	220pF	1043	R268	B5B	3001051040010	100kΩ
267	C437	T2B	3101052210010	220pF	1044	R269	B4B	3001051040010	100kΩ
268	C438	B7C	3101054740020	0.47uF	1045	R270	B4B	3001054730000	47kΩ
269	C439	B7C	3101054740020	0.47uF	1046	R271	B4B	3001051010000	100Ω
270	C440	B8D	3101051010030	100pF	1047	R272	B5B	3001054730000	47kΩ
271	C441	T8C	3101051010030	100pF	1048	R273	B4C	3001052430010	24kΩ
272	C442	B8B	3101051010030	100pF	1049	R274	B4C	3001051040010	100kΩ
273	C443	B8B	3101051010030	100pF	1050	R275	B4C	3001051040010	100kΩ
274	C444	B8A	3101051010030	100pF	1051	R276	B4C	3001051040010	100kΩ
275	C445	B8B	3101051010030	100pF	1052	R277	B4C	3001054730000	47kΩ
276	C446	B8A	3101051010030	100pF	1053	R278	B4C	3001051010000	100Ω
277	C447	B8B	3101051010030	100pF	1054	R279	B5D	3001053030010	30kΩ
278	C448	B8A	3101051010030	100pF	1055	R282	T6A	3001060000000	0Ω
279	C449	B8A	3101051010030	100pF	1056	R283	B5D	3001053030010	30kΩ
280	C450	B8A	3101051010030	100pF	1057	R284	B5D	3001051530000	15kΩ
281	C451	B8A	3101051010030	100pF	1058	R285	B5D	3001051530000	15kΩ
282	C452	B8B	3101051010030	100pF	1059	R286	B6B	3001054730000	47kΩ
283	C453	B8B	3101051010030	100pF	1060	R287	B6B	3001055620000	5.6kΩ
284	C454	B8B	3101051010030	100pF	1061	R288	B6A	3001054730000	47kΩ
285	C455	B8B	3101051010030	100pF	1062	R289	B6A	3001050000000	0Ω
286	C456	B8B	3101051010030	100pF	1063	R290	B5C	3001051020000	1kΩ
287	C46	B7G	3101052210010	220pF	1064	R291	B6B	3001051220000	1.2kΩ
288	C463	B7C	3101051010030	100pF	1065	R292	B6B	3001053300010	33Ω
289	C465	B8C	3101051010030	100pF	1066	R295	B5A	3001051020000	1kΩ
290	C466	B8C	3101051010030	100pF	1067	R296	B6B	3001051040000	100kΩ
291	C467	B8C	3101051010030	100pF	1068	R3	T7F	3001050000000	0Ω
292	C468	B8C	3101051010030	100pF	1069	R316	T5B	3001051030000	10kΩ
293	C469	B8A	3101051010030	100pF	1070	R319	T6B	3001053300010	33Ω
294	C473	T8D	3101051040010	0.1uF	1071	R320	B6B	3001053300010	33Ω
295	C474	T2C	3101054710010	470pF	1072	R322	T5B	3001051030000	10kΩ
296	C476	T2C	3101054710010	470pF	1073	R324	T7C	3001053300010	33Ω
297	C477	T7C	3101051010030	100pF	1074	R326	T6B	3001051030000	10kΩ
298	C478	T7C	3101051010030	100pF	1075	R327	B6C	3001053300010	33Ω
299	C479	T8C	3101051010030	100pF	1076	R337	T7C	3001051010000	100Ω
300	C480	T8C	3101051010030	100pF	1077	R338	T7B	3001051010000	100Ω
301	C483	B2B	3101051040010	0.1uF	1078	R339	T7C	3001051010000	100Ω
302	C484	T2C	3101062250000	2.2uF	1079	R346	B6C	3001051010000	100Ω
303	C485	B2C	3101051040010	0.1uF	1080	R347	T7D	3001053300010	33Ω
304	C49	B7G	3101060700020	7pF	1081	R348	T8B	3001050000000	0Ω
305	C5	B7G	3101053900000	39pF	1082	R349	T8B	3001053300010	33Ω
306	C50	T8G	3101054710010	470pF	1083	R350	T8B	3001053300010	33Ω
307	C500	B7C	3101053300000	33pF	1084	R351	T6B	3001051030000	10kΩ
308	C501	B7C	3101053310020	330pF	1085	R352	T2C	3001053300010	33Ω
309	C502	B7C	3101053320010	3300pF	1086	R353	T6A	3001051030000	10kΩ
310	C503	B7C	3101051820000	1800pF	1087	R354	T6C	3001053300010	33Ω
311	C506	B7C	3101051030020	0.01uF	1088	R355	B6C	3001053300010	33Ω
312	C507	B7C	3101051030020	0.01uF	1089	R356	B6A	3001050000000	0Ω
313	c508	B7C	3101071060010	10uF	1090	R357	T6C	3001053300010	33Ω
314	C509	B7C	3101051040010	0.1uF	1091	R358	B7B	3001051000000	10Ω
315	C510	B7C	3101051010030	100pF	1092	R360	B7B	3001051000000	10Ω
316	C511	B7B	3101071060010	10uF	1093	R361	B7B	3001051530000	15kΩ
317	C512	B7B	3101051040010	0.1uF	1094	R362	B7B	3001051530000	15kΩ
318	C513	B7C	3101051020010	1000pF	1095	R363	T3A	3001050000000	0Ω
319	C514	B7C	3101051040010	0.1uF	1096	R364	T3A	3001050000000	0Ω
320	C515	B7C	3101051040010	0.1uF	1097	R365	T3C	3001051030000	10kΩ
321	C516	B7B	3101051010030	100pF	1098	R366	T3C	3001051030000	10kΩ
322	C517	B7B	3101051010030	100pF	1099	R367	T6D	3001053300010	33Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
323	C518	B7B	3101051010030	100pF	1100	R368	T3C	3001051010000	100Ω
324	C519	B5C	3101071060010	10uF	1101	R369	T6D	3001053300010	33Ω
325	C52	B7G	3101052210010	220pF	1102	R370	T3C	3001051010000	100Ω
326	C520	B6D	3101071060010	10uF	1103	R371	T6D	3001053300010	33Ω
327	C53	T8G	3101051590000	1.5pF	1104	R372	T6D	3001051030000	10kΩ
328	C55	T7G	3101060400010	4pF	1105	R373	T3C	3001053300010	33Ω
329	C56	T7G	3101051000030	10pF	1106	R374	T7B	3001050000000	0Ω
330	C58	T7G	3101051030020	0.01uF	1107	R375	T6C	3001050000000	0Ω
331	C59	T7G	3101051200020	12pF	1108	R376	T6C	3001053300010	33Ω
332	C6	B7F	3101052210010	220pF	1109	R377	T6C	3001051030000	10kΩ
333	C60	T7G	3101051020010	1000pF	1110	R378	T6C	3001051020000	1kΩ
334	C61	T7H	3101051800010	18pF	1111	R379	T7C	3001051030000	10kΩ
335	C6100	T4I	3101061050020	1uF	1112	R380	T6C	3001053300010	33Ω
336	C6102	T6J	3101054710010	470pF	1113	R381	T6C	3001053300010	33Ω
337	C6103	T4I	3101052210010	220pF	1114	R382	T6C	3001051020000	1kΩ
338	C6104	T5I	3101051040010	0.1uF	1115	R383	B7C	3001051020010	1kΩ
339	C6105	T5J	3101052210010	220pF	1116	R385	B7B	3001051030000	10kΩ
340	C6106	T4J	3101052210010	220pF	1117	R386	B6B	3001051000000	10Ω
341	C6107	T5J	3101052210010	220pF	1118	R387	T7B	3001053300010	33Ω
342	C6108	T6J	3101051020010	1000pF	1119	R388	T7C	3001051000000	10Ω
343	C6109	T4J	3101050600010	6pF	1120	R390	T7B	3001051030000	10kΩ
344	C6110	T4J	3101050100030	1pF	1121	R391	T8D	3001051030000	10kΩ
345	C6111	T5J	3101050900000	9pF	1122	R392	T7D	3001051030000	10kΩ
346	C6112	T5J	3101051000020	10pF	1123	R393	T7D	3001051030000	10kΩ
347	C6113	T5J	3101051040010	0.1uF	1124	R394	T7D	3001051030000	10kΩ
348	C6114	T5J	3101050600010	6pF	1125	R395	T7D	3001054720000	4.7kΩ
349	C6115	T6J	3001050000000	0Ω	1126	R396	T7D	3001054720000	4.7kΩ
350	C6116	T6J	3101050600010	6pF	1127	R398	T3A	3001054720000	4.7kΩ
351	C6117	T6J	3101051590000	1.5pF	1128	R399	T6A	3001050000000	0Ω
352	C6118	T4J	3101054710010	470pF	1129	R4	T8E	3001061010000	100Ω
353	C6120	T4J	3101050300000	3pF	1130	R400	T7D	3001051030000	10kΩ
354	C6121	T4J	3101050300000	3pF	1131	R401	B7B	3001051520000	1.5kΩ
355	C6122	T5J	3101052490010	2.4pF	1132	R402	T6D	3001053300010	33Ω
356	C6123	T5J	3001050000000	0Ω	1133	R403	T6C	3001051010000	100Ω
357	C6124	T6J	3101050500000	5pF	1134	R404	T6C	3001051010000	100Ω
358	C6125	T6J	3101050200010	2pF	1135	R405	T2A	3001061030000	10kΩ
359	C6126	T6J	3101052790060	2.7pF	1136	R406	T6C	3001051010000	100Ω
360	C6127	T6J	3101052790060	2.7pF	1137	R407	T8C	3001060000000	0Ω
361	C6128	T6J	3101054710010	470pF	1138	R408	T7C	3001053300010	33Ω
362	C6129	T5J	3101051200020	12pF	1139	R409	T8C	3001051010000	100Ω
363	C6130	T5J	3101051010030	100pF	1140	R410	T6C	3001051010000	100Ω
364	C6133	T5J	3101057590000	7.5pF	1141	R411	T6C	3001051010000	100Ω
365	C6134	T4I	3101056800000	68pF	1142	R412	T8C	3001053300010	33Ω
366	C6135	T4I	3101056800000	68pF	1143	R413	T6C	3001053300010	33Ω
367	C6136	T4I	3101056800000	68pF	1144	R414	T7A	3001051000000	10Ω
368	C6137	T4I	3101056800000	68pF	1145	R415	T7C	3001053300010	33Ω
369	C6138	T4I	3101056800000	68pF	1146	R416	T8C	3001051010000	100Ω
370	C6139	T6I	3101056800000	68pF	1147	R417	T2A	3001062030000	20kΩ
371	C6140	T6I	3101056800000	68pF	1148	R420	T8C	3001053300010	33Ω
372	C6141	T6I	3101056800000	68pF	1149	R421	T6C	3001051010000	100Ω
373	C6142	T6I	3101056800000	68pF	1150	R422	T7B	3001051030000	10kΩ
374	C6143	T6I	3101056800000	68pF	1151	R423	T7C	3001053300010	33Ω
375	C6144	B4H	3101052210010	220pF	1152	R424	T7C	3001053300010	33Ω
376	C6145	B4I	3101061050020	1uF	1153	R425	T7C	3001053300010	33Ω
377	C6146	T4I	3101054710010	470pF	1154	R426	T7A	3001050000000	0Ω
378	C6147	T6I	3101051030020	0.01uF	1155	R427	T2B	3001051030000	10kΩ
379	C6148	B7H	3101054710010	470pF	1156	R428	T2B	3001054720000	4.7kΩ
380	C6149	B7H	3101061050020	1uF	1157	R429	T6C	3001051030000	10kΩ
381	C6151	B7H	3101054710010	470pF	1158	R430	T8C	3001053300010	33Ω
382	C6152	B8I	3101050300000	3pF	1159	R431	T7C	3001053300010	33Ω
383	C6153	B8I	3101050400010	4pF	1160	R432	T7C	3001053300010	33Ω
384	C6154	B8I	3101050400010	4pF	1161	R433	T7C	3001053300010	33Ω
385	C6155	B7H	3101051030020	0.01uF	1162	R434	T8D	3001051010000	100Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
386	C6157	B8I	3101061010010	100pF	1163	R435	T2C	3001054720000	4.7kΩ
387	C6158	B7H	3001060000000	0Ω	1164	R436	T2B	3001054720000	4.7kΩ
388	C6159	B8H	3101052210010	220pF	1165	R437	T2A	3001054720000	4.7kΩ
389	C6160	B8H	3101053300000	33pF	1166	R438	B2A	3001051030000	10kΩ
390	C6161	B8H	3101051500020	15pF	1167	R439	B2A	3001051010000	100Ω
391	C6162	B8I	3101051500020	15pF	1168	R440	T6B	3001050000000	0Ω
392	C6163	B8I	3101050700010	7pF	1169	R441	B6A	3001051030000	10kΩ
393	C6164	B8I	3101051500020	15pF	1170	R442	T6A	3001051030000	10kΩ
394	C6166	T7I	3101051010030	100pF	1171	R443	T2A	3001051030000	10kΩ
395	C6168	T7I	3101051040010	0.1uF	1172	R445	T2A	3001051010000	100Ω
396	C6169	T7I	3101051040010	0.1uF	1173	R447	T2A	3001051030000	10kΩ
397	C6170	T7I	3101050900000	9pF	1174	R448	T2B	3001054720000	4.7kΩ
398	C6171	T7I	3101051040010	0.1uF	1175	R449	B2A	3001064730000	47kΩ
399	C6172	B7I	3001050000000	0Ω	1176	R450	B2A	3001071020000	1kΩ
400	C6173	T7H	3101051040010	0.1uF	1177	R451	B2B	3001051030000	10kΩ
401	C6175	T8H	3101051040010	0.1uF	1178	R452	B2B	3001051030000	10kΩ
402	C6176	T8I	3001060000000	0Ω	1179	R453	T5B	3001051030000	10kΩ
403	C6177	T8I	3101051500020	15pF	1180	R454	B2A	3001050000000	0Ω
404	C6178	T7I	3101051030020	0.01uF	1181	R455	T2A	3001058230000	82kΩ
405	C6179	T7H	3101051040010	0.1uF	1182	R456	T8C	3001050000000	0Ω
406	C6180	T7H	3101051040010	0.1uF	1183	R457	T8C	3001050000000	0Ω
407	C6185	T6J	3101061050020	1uF	1184	R458	T8C	3001051010000	100Ω
408	C6190	T7I	3101061050020	1uF	1185	R459	T8C	3001051010000	100Ω
409	C6193	B7H	3101061040010	0.1uF	1186	R460	T7D	3001051020010	1kΩ
410	C62	B8G	3101050100030	1pF	1187	R461	B2C	3001051030000	10kΩ
411	C6244	T6J	3101051000030	10pF	1188	R462	B2B	3001051030000	10kΩ
412	C6245	T7J	3101050200010	2pF	1189	R463	B2B	3001051030000	10kΩ
413	C6246	T6J	3101050600010	6pF	1190	R464	B2B	3001051030000	10kΩ
414	C64	T7F	3110071040000	0.1uF	1191	R465	B2C	3001051030000	10kΩ
415	C66	T6F	3110071040000	0.1uF	1192	R466	B2C	3001051030000	10kΩ
416	C67	T7F	3110071040000	0.1uF	1193	R467	B2C	3001053300010	33Ω
417	C68	T6F	3110071040000	0.1uF	1194	R468	T2B	3001054720000	4.7kΩ
418	C69	T7F	3110071040000	0.1uF	1195	R469	T2C	3001054720000	4.7kΩ
419	C7	B7F	3101051040010	0.1uF	1196	R470	T2B	3001054720000	4.7kΩ
420	C70	T6F	3110071040000	0.1uF	1197	R471	T2B	3001054720000	4.7kΩ
421	C701	T6H	3101051030020	0.01uF	1198	R472	T2B	3001054720000	4.7kΩ
422	C702	T6H	3101051030020	0.01uF	1199	R473	B2C	3001053300010	33Ω
423	C703	T6H	3101060300010	3pF	1200	R474	B2C	3001053300010	33Ω
424	C704	T6H	3101052210010	220pF	1201	R475	T2A	3001051030000	10kΩ
425	C705	T6H	3101051040010	0.1uF	1202	R476	T8C	3001054720000	4.7kΩ
426	C706	T6H	3101054710010	470pF	1203	R479	T6C	3001053300010	33Ω
427	C707	T6H	3101051040010	0.1uF	1204	R481	B5B	3001051030000	10kΩ
428	C708	T6H	3101051040010	0.1uF	1205	R482	B6B	3001051030000	10kΩ
429	C709	T5I	3101051040010	0.1uF	1206	R483	B6B	3001051030000	10kΩ
430	C71	B7F	3101071050240	1uF	1207	R484	T8C	3001054720000	4.7kΩ
431	C710	T6H	3101051020010	1000pF	1208	R485	B7C	3001053300010	33Ω
432	C712	T6H	3101051040010	0.1uF	1209	R486	B7C	3001053300010	33Ω
433	C713	T6H	3101053920000	3900pF	1210	R487	T7A	3001053300010	33Ω
434	C714	T6G	3101051000020	10pF	1211	R488	T7B	3001054720000	4.7kΩ
435	C715	T6H	3101064740000	0.47uF	1212	R489	T7A	3001053300010	33Ω
436	C716	T6I	3101061810060	180pF	1213	R490	T7A	3001053300010	33Ω
437	C717	B6H	3101054710010	470pF	1214	R491	B7C	3001053300010	33Ω
438	C718	B6H	3101051050160	1uF	1215	R492	T7A	3001053300010	33Ω
439	C719	T5G	3101051050000	1uF	1216	R493	T2A	3001061040010	100kΩ
440	C72	T7F	3110071040000	0.1uF	1217	R495	B7C	3001053300010	33Ω
441	C720	T6H	3101051040010	0.1uF	1218	R496	B2C	3001054720000	4.7kΩ
442	C721	T6H	3101051010030	100pF	1219	R497	B2B	3001051020000	1kΩ
443	C722	T6H	3101051010030	100pF	1220	R498	B7C	3001053300010	33Ω
444	C723	B6H	3101051500020	15pF	1221	R499	B7B	3001054720000	4.7kΩ
445	C724	B6H	3101051800010	18pF	1222	R5	T7E	3001050000000	0Ω
446	C725	B6H	3101051030020	0.01uF	1223	R500	B7C	3001051040000	100kΩ
447	C726	B6H	3101074750000	4.7uF	1224	R501	B7C	3001051030010	10kΩ
448	C727	B6H	3101054710010	470pF	1225	R502	B7C	3001051020000	1kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
449	C728	T5H	3101051020010	1000pF	1226	R503	B7C	3001051020000	1kΩ
450	C729	T5H	3101051040010	0.1uF	1227	R504	B7C	3001051020000	1kΩ
451	C730	B6H	3101052200010	22pF	1228	R505	B7C	3001050000000	0Ω
452	C731	B6H	3101050600010	6pF	1229	R506	B7C	3001051030000	10kΩ
453	C732	B6H	3101052200010	22pF	1230	R507	B7C	3001050000000	0Ω
454	C733	T5H	3101051040010	0.1uF	1231	R508	T2C	3001051030000	10kΩ
455	C734	B6H	3101053000010	30pF	1232	R509	B7B	3001051030000	10kΩ
456	C735	T5H	3101051040010	0.1uF	1233	R510	B7B	3001051030000	10kΩ
457	C736	T5H	3101051030020	0.01uF	1234	R511	B7B	3001054720000	4.7kΩ
458	C737	T5H	3101051040010	0.1uF	1235	R512	B7C	3001051030000	10kΩ
459	C738	T5H	3101051010030	100pF	1236	R513	B7C	3001051040000	100kΩ
460	C739	T5H	3101051010030	100pF	1237	R514	B7C	3001051040000	100kΩ
461	C74	T7F	3110071040000	0.1uF	1238	R515	T7A	3001053300010	33Ω
462	C740	T5H	3101051040010	0.1uF	1239	R516	T7A	3001053300010	33Ω
463	C741	T5H	3101051040010	0.1uF	1240	R517	T7A	3001053300010	33Ω
464	C742	T6H	3101061050020	1uF	1241	R518	T7A	3001053300010	33Ω
465	C743	T6H	3101064700000	47pF	1242	R519	T7B	3001053300010	33Ω
466	C744	B5H	3101051040010	0.1uF	1243	R520	T7B	3001053300010	33Ω
467	C745	B5H	3101053300000	33pF	1244	R521	T7B	3001053300010	33Ω
468	C746	T4H	3101054710010	470pF	1245	R522	T7A	3001053300010	33Ω
469	C747	B5H	3101052200010	22pF	1246	R523	B7B	3001053300010	33Ω
470	C748	B5H	3101061040010	0.1uF	1247	R524	B7B	3001053300010	33Ω
471	C749	T5G	3101063900060	39pF	1248	R525	B8B	3001053300010	33Ω
472	C75	T7F	3101051020010	1000pF	1249	R526	B7B	3001053300010	33Ω
473	C750	B5H	3101071050240	1uF	1250	R527	B7B	3001053300010	33Ω
474	C751	T6G	3101051000020	10pF	1251	R528	B7C	3001056830000	68kΩ
475	C752	T4I	3101074750000	4.7uF	1252	R529	B7C	3001053330000	33kΩ
476	C754	T4I	3101061050020	1uF	1253	R530	T8D	3001051030000	10kΩ
477	C755	T6I	3101074750000	4.7uF	1254	R531	T8D	3001051030000	10kΩ
478	C756	T6I	3101051040010	0.1uF	1255	R532	T8C	3001051030000	10kΩ
479	C76	T8F	3101051010030	100pF	1256	R533	B7B	3001053300010	33Ω
480	C763	T5H	3101051010030	100pF	1257	R534	B8C	3001051030000	10kΩ
481	C764	T5H	3101051010030	100pF	1258	R535	B8C	3001051030000	10kΩ
482	C765	T5H	3101051010030	100pF	1259	R536	T5B	3001050000000	0Ω
483	C766	T5H	3101051010030	100pF	1260	R538	T7C	3001051030000	10kΩ
484	C767	T5H	3101051010030	100pF	1261	R539	T7C	3001051030000	10kΩ
485	C769	T6G	3101051010030	100pF	1262	R540	T8D	3001051030000	10kΩ
486	C77	T8F	3101051010030	100pF	1263	R541	T8C	3001051030000	10kΩ
487	C78	T6F	3110071040000	0.1uF	1264	R543	T7C	3001051030000	10kΩ
488	C79	T7E	3101051020010	1000pF	1265	R544	B5B	3001050000000	0Ω
489	C8	T7E	3101054710010	470pF	1266	R545	B7D	3001053300010	33Ω
490	C80	T8F	3101051030020	0.01uF	1267	R546	B2C	3001061010000	100Ω
491	C801	B1F	3101081020010	1000pF	1268	R552	B7D	3001053300010	33Ω
492	C802	B1F	3101063320000	3300pF	1269	R553	B7D	3001053300010	33Ω
493	C803	B1F	3101063300000	33pF	1270	R554	T8D	3001051020010	1kΩ
494	C804	B1F	3101092260010	22uF	1271	R555	T8D	3001051030000	10kΩ
495	C807	T5E	3101081060010	10uF	1272	R556	T2C	3001051010000	100Ω
496	C808	B5E	3101062210000	220pF	1273	R557	T2B	3001051010000	100Ω
497	C809	B5E	3101062210000	220pF	1274	R558	B2C	3001053330010	33kΩ
498	C810	T5G	3101073900010	39pF	1275	R559	B2B	3001053330010	33kΩ
499	C811	B6E	3101064710000	470pF	1276	R560	B2B	3001053330010	33kΩ
500	C812	T3G	3101372400000	24pF	1277	R561	B2C	3001053330010	33kΩ
501	C814	B5E	3101061800000	18pF	1278	R562	B2C	3001053330010	33kΩ
502	C815	T5F	3101068210000	820pF	1279	R563	T2B	3001051030000	10kΩ
503	C816	T3H	3101080300010	3pF	1280	R564	B7C	3001050000000	0Ω
504	C817	T2H	3101064710000	470pF	1281	R565	B7C	3001050000000	0Ω
505	C818	B6E	3101063900060	39pF	1282	R566	B7C	3001050000000	0Ω
506	C819	T3F	3101371200000	12pF	1283	R567	B7C	3001050000000	0Ω
507	C82	T7F	3101051020010	1000pF	1284	R569	T2C	3001051030000	10kΩ
508	C820	T3F	3101372400000	24pF	1285	R570	T2C	3001064720000	4.7kΩ
509	C821	T2H	3101080200010	2pF	1286	R571	T6C	3001051030000	10kΩ
510	C822	B6E	3101062210000	220pF	1287	R573	T2C	3001054720000	4.7kΩ
511	C823	T2F	3101372000000	20pF	1288	R574	T2C	3001064720000	4.7kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
512	C825	B2F	3101074700050	47pF	1289	R575	T2B	3001053330010	33kΩ
513	C826	T5E	3210306180000	18nH	1290	R576	T2C	3001053330010	33kΩ
514	C827	T3I	3101084710010	470pF	1291	R577	T2B	3001061010000	100Ω
515	C828	T5G	3101071000050	10pF	1292	R578	B2B	3001061010000	100Ω
516	C829	B4E	3101061040010	0.1uF	1293	R579	B2B	3001061010000	100Ω
517	C83	T8F	3101051040010	0.1uF	1294	R580	B2C	3001061010000	100Ω
518	C830	T3H	3101080700010	7pF	1295	R581	B2C	3001061010000	100Ω
519	C831	T3G	3101372200000	22pF	1296	R6	T7F	3001050000000	0Ω
520	C833	T3F	3101372200000	22pF	1297	R6004	T5B	3001063320000	3.3kΩ
521	C8330	T3F	3101081200010	12pF	1298	R6100	T4I	3001050000000	0Ω
522	C835	T1H	3101080600010	6pF	1299	R6101	T6I	3001056810000	680Ω
523	C836	T2H	3101080400010	4pF	1300	R6102	T5J	3001071000000	10Ω
524	C837	T2H	3101080700010	7pF	1301	R6103	T5I	3001052730010	27kΩ
525	C838	T3I	3101080400010	4pF	1302	R6104	T5J	3001052720000	2.7kΩ
526	C839	T5F	3101068210000	820pF	1303	R6105	T5J	3001055620000	5.6kΩ
527	C84	T7F	3110071040000	0.1uF	1304	R6106	T4J	3001066810000	680Ω
528	C840	T5F	3101073900010	39pF	1305	R6107	T5J	3001056810000	680Ω
529	C841	T3F	3101371200000	12pF	1306	R6108	T6J	3001054720000	4.7kΩ
530	C842	T3G	3101081200010	12pF	1307	R6109	T4J	3001063910000	390Ω
531	C843	T5E	3001060000000	0Ω	1308	R6110	T5J	3001051220000	1.2kΩ
532	C845	B4E	3101062210000	220pF	1309	R6111	T4I	3001051040000	100kΩ
533	C847	T2I	3101061510050	150pF	1310	R6112	T6I	3001051040000	100kΩ
534	C848	T3J	3101061510050	150pF	1311	R6113	B4H	3001052740000	270kΩ
535	C85	T8E	3101051040010	0.1uF	1312	R6114	B4H	3001053300010	33Ω
536	C850	B2I	3101084710010	470pF	1313	R6115	B4H	3001051040000	100kΩ
537	C851	T2I	3101080300010	3pF	1314	R6116	B4H	3001060000000	0Ω
538	C852	T2H	3101061010010	100pF	1315	R6117	B7H	3001078200000	82Ω
539	C853	T5F	3101062210000	220pF	1316	R6118	B7H	3001053920010	3.9kΩ
540	C854	T5F	3101061040010	0.1uF	1317	R6119	B8H	3001051220000	1.2kΩ
541	C857	T3J	3101062200010	22pF	1318	R6120	T7I	3001055100010	51Ω
542	C859	T5F	3101072000010	20pF	1319	R6121	B7H	3001051800000	18Ω
543	C86	T7F	3101051040010	0.1uF	1320	R6122	B7H	3001051220000	1.2kΩ
544	C860	T5F	3101071000050	10pF	1321	R6123	T4J	3001050000000	0Ω
545	C861	T2I	3101068200030	82pF	1322	R6124	B7I	3001052710000	270Ω
546	C863	T6E	3101064720000	4700pF	1323	R6125	B7I	3001052710000	270Ω
547	C864	T6E	3101063900060	39pF	1324	R6126	B7H	3001078200000	82Ω
548	C865	T6F	3101063300000	33pF	1325	R6127	T4I	3001051030000	10kΩ
549	C866	T6F	3101061510050	150pF	1326	R6129	B7I	3001063310010	330Ω
550	C868	B4H	3101061040010	0.1uF	1327	R6130	T7I	3001055120030	5.1kΩ
551	C869	T5F	3101072000010	20pF	1328	R6131	T7I	3001051220000	1.2kΩ
552	C87	T7E	3101051040010	0.1uF	1329	R6132	T7I	3001055100010	51Ω
553	C873	T2F	3101080500010	5pF	1330	R6133	T7H	3001053310010	330Ω
554	C875	B4H	3101051510000	150pF	1331	R6134	T7H	3001053030000	30kΩ
555	C877	T6E	3101062210000	220pF	1332	R6135	T7H	3001054720000	4.7kΩ
556	C878	T6F	3101062210000	220pF	1333	R6136	T7H	3001052030000	20kΩ
557	C879	T1G	3101080300010	3pF	1334	R6137	T7I	3001053030000	30kΩ
558	C88	T7F	3110071040000	0.1uF	1335	R6138	B8I	3001060000000	0Ω
559	C880	T6E	3101064730000	0.047uF	1336	R6139	T8H	3001055630000	56kΩ
560	C881	T6G	3001064720000	4.7kΩ	1337	R6140	T4I	3001060000000	0Ω
561	C883	B4I	3101052210010	220pF	1338	R701	T5I	3001055100010	51Ω
562	C885	B2F	3101082700010	27pF	1339	R703	T6G	3001052220010	2.2kΩ
563	C887	B5F	3101061020040	1000pF	1340	R704	T6H	3001055610010	560Ω
564	C888	B2F	3101063300000	33pF	1341	R705	T6H	3001051030000	10kΩ
565	C889	B2F	3101062200010	22pF	1342	R707	B6H	3001051810010	180Ω
566	C89	T7F	3101051040010	0.1uF	1343	R708	B6H	3001054720000	4.7kΩ
567	C890	B3I	3101052210010	220pF	1344	R709	B6H	3001061030010	10kΩ
568	C891	T2I	3101051210000	120pF	1345	R710	B6H	3001068220000	8.2kΩ
569	C892	B5F	3101062210000	220pF	1346	R711	T5G	3001053300010	33Ω
570	C893	T1H	3101084710010	470pF	1347	R712	B6H	3001052710010	270Ω
571	C894	B4H	3101051830020	0.018uF	1348	R713	T5H	3001051040000	100kΩ
572	C895	B4I	3101052210010	220pF	1349	R714	B5H	3001051820000	1.8kΩ
573	C896	B3G	3101052210010	220pF	1350	R715	T5G	3001053300010	33Ω
574	C897	B3G	3101052210010	220pF	1351	R716	B5H	3001055620000	5.6kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
575	C898	B5C	3101052210010	220pF	1352	R717	T5G	3001053300010	33Ω
576	C899	T3J	3101051210000	120pF	1353	R718	B5H	3001055110000	510Ω
577	C9	T8G	3101051590000	1.5pF	1354	R719	T5H	3001053300010	33Ω
578	C90	T7F	3101051010030	100pF	1355	R720	T5H	3001053300010	33Ω
579	C900	T5C	3101061050020	1uF	1356	R721	T5H	3001053300010	33Ω
580	C901	T5C	3101061050020	1uF	1357	R724	T5I	3001060000000	0Ω
581	C902	T2E	3101062200010	22pF	1358	R725	T5G	3001053300010	33Ω
582	C905	T2A	3101061050020	1uF	1359	R727	T4H	3001064730000	47kΩ
583	C906	T2A	3101061050020	1uF	1360	R728	T4H	3001064730000	47kΩ
584	C907	T4B	3101051040010	0.1uF	1361	R802	B5E	3001062020030	2kΩ
585	C908	T5B	3101061050020	1uF	1362	R803	B5E	3001062020030	2kΩ
586	C909	B2F	3101063310010	330pF	1363	R804	T4G	3001084790000	4.7Ω
587	C91	T6F	3110071040000	0.1uF	1364	R806	T4G	3001084790000	4.7Ω
588	C910	B4I	3101051020010	1000pF	1365	R807	T4F	3001084790000	4.7Ω
589	C911	T3A	3101051040010	0.1uF	1366	R808	B5E	3001061000000	10Ω
590	C912	T5C	3101072250100	2.2uF	1367	R809	B6E	3001061010000	100Ω
591	C913	B2F	3101064710000	470pF	1368	R810	B6E	3001068200000	82Ω
592	C914	T4D	3101092260010	22uF	1369	R811	B5E	3001063320000	3.3kΩ
593	C915	T4C	3101082260020	22uF	1370	R813	T4F	3001084790000	4.7Ω
594	C916	T2E	3101063320000	3300pF	1371	R814	B6E	3001068200000	82Ω
595	C917	T5D	3101071060010	10uF	1372	R815	T1I	3001082730000	27kΩ
596	C918	T5D	3101052200010	22pF	1373	R816	T2J	3001072210000	220Ω
597	C919	T5C	3101072260000	22uF	1374	R817	T2J	3001072210000	220Ω
598	C920	T4C	3101061030010	0.01uF	1375	R818	T4F	3001084790000	4.7Ω
599	C921	T5C	3101051040010	0.1uF	1376	R819	T3I	3001078200000	82Ω
600	C922	T5C	3101055600000	56pF	1377	R821	B2I	3001113300000	33Ω
601	C923	B4D	3101061050020	1uF	1378	R822	T3J	3001060000000	0Ω
602	C924	B4D	3101061050020	1uF	1379	R823	T2J	3001061010000	100Ω
603	C925	B4D	3101061050020	1uF	1380	R824	T5E	3101063900060	39pF
604	C926	B7D	3101071060010	10uF	1381	R825	T3I	3001113300000	33Ω
605	C927	T4D	3101061040010	0.1uF	1382	R826	T6F	3001061000000	10Ω
606	C928	T5H	3101081060010	10uF	1383	R827	T6E	3001062710000	270Ω
607	C93	T7F	3101051010030	100pF	1384	R828	T6F	3001061000000	10Ω
608	C930	B1F	3101061830000	0.018uF	1385	R829	T6F	3001068200000	82Ω
609	C931	T1E	3101062700010	27pF	1386	R830	B5E	3001074700000	47Ω
610	C932	T5C	3101062250000	2.2uF	1387	R831	B4H	3001051020000	1kΩ
611	C933	B2A	3101092260010	22uF	1388	R835	T6E	3001068200000	82Ω
612	C934	B4D	3101062250000	2.2uF	1389	R837	B4I	3001050000000	0Ω
613	C935	B5D	3101061040010	0.1uF	1390	R838	B4I	3001053330000	33kΩ
614	C936	T5D	3101051010030	100pF	1391	R839	B4H	3001053320000	3.3kΩ
615	C938	T4D	3101092260010	22uF	1392	R840	T3I	3101060600010	6pF
616	C94	T7F	3110071040000	0.1uF	1393	R841	B4H	3001053330000	33kΩ
617	C940	B1F	3101066800000	68pF	1394	R842	B4I	3001051530000	15kΩ
618	C942	T4B	3101053310020	330pF	1395	R843	T6F	3001065620000	5.6kΩ
619	C943	B1F	3101062700010	27pF	1396	R844	T6F	3001061030000	10kΩ
620	C944	B2B	3101051020010	1000pF	1397	R845	T6E	3001062730010	27kΩ
621	C945	B2A	3101054710010	470pF	1398	R846	T6E	3001061030000	10kΩ
622	C946	T5D	3101061050020	1uF	1399	R847	B4H	3001054730000	47kΩ
623	C947	T5B	3101051040010	0.1uF	1400	R849	B4I	3001052220010	2.2kΩ
624	C948	T4B	3101051040010	0.1uF	1401	R853	T2I	3001064710000	470Ω
625	C949	B2G	3101058200000	82pF	1402	R854	B4I	3001055630000	56kΩ
626	C95	T7F	3101051030020	0.01uF	1403	R855	B4F	3001082200000	22Ω
627	C950	T2D	3101051040010	0.1uF	1404	R856	B4F	3001082200000	22Ω
628	C951	T4C	3110992270000	220uF	1405	R857	B4I	3001050000000	0Ω
629	C952	T3C	3101061030010	0.01uF	1406	R858	B5F	3001069120000	9.1kΩ
630	C953	B3G	3001051830000	18kΩ	1407	R859	B5F	3001061020010	1kΩ
631	C955	T3D	3101051040010	0.1uF	1408	R861	T4F	3001084790000	4.7Ω
632	C956	T3D	3101081060010	10uF	1409	R862	B6E	3001065600000	56Ω
633	C957	T3D	3101081060010	10uF	1410	R863	B2I	3001050000000	0Ω
634	C958	T3D	3101051040010	0.1uF	1411	R864	B3G	3001054740010	470kΩ
635	C959	B2G	3101061040010	0.1uF	1412	R865	B4H	3001053930000	39kΩ
636	C96	T7F	3101051020010	1000pF	1413	R866	B4I	3001052220010	2.2kΩ
637	C961	B3A	3101061040010	0.1uF	1414	R867	B4G	3001058220000	8.2kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
638	C962	B6D	3101051050000	1uF	1415	R869	B4H	3001051020000	1kΩ
639	C963	B7D	3101061040010	0.1uF	1416	R870	B4H	3001051530000	15kΩ
640	C965	B7D	3101062250000	2.2uF	1417	R872	B4H	3001051840000	180kΩ
641	C966	T5B	3101061050020	1uF	1418	R874	B4I	3001051020000	1kΩ
642	C968	B3B	3101051040010	0.1uF	1419	R875	B4I	3001053330000	33kΩ
643	C969	B3B	3101051040010	0.1uF	1420	R876	B3G	3001055630000	56kΩ
644	C97	T8F	3101051030020	0.01uF	1421	R877	B5E	3001054730000	47kΩ
645	C978	T7D	3101051040010	0.1uF	1422	R880	B5E	3001074720010	4.7kΩ
646	C979	T6D	3101051040010	0.1uF	1423	R881	B5E	3001074720010	4.7kΩ
647	C98	T8F	3101051040010	0.1uF	1424	R882	B4I	3001051540000	150kΩ
648	C980	T2D	3101081060010	10uF	1425	R883	B3G	3001055630000	56kΩ
649	C981	T4D	3101081060010	10uF	1426	R884	B3G	3001051030000	10kΩ
650	C982	T7C	3101051040010	0.1uF	1427	R885	B3G	3001051030000	10kΩ
651	C983	T7D	3101051050000	1uF	1428	R886	B3G	3001052240000	220kΩ
652	C984	T7D	3101051020010	1000pF	1429	R887	B4I	3001058210000	820Ω
653	C99	T8F	3101052710000	270pF	1430	R889	B5C	3001050000000	0Ω
654	C997	T7C	3101062240030	0.22uF	1431	R890	B4H	3001053320000	3.3kΩ
655	D100	T7F	3303030800020	Switching diode	1432	R891	B3G	3001053320000	3.3kΩ
656	D101	B7E	3304010100220	Varactor	1433	R892	B3I	3001058230000	82kΩ
657	D102	B7E	3304010100220	Varactor	1434	R894	B4I	3001050000000	0Ω
658	D103	B3A	3303240000000	Switching diode	1435	R895	B4H	3001055630000	56kΩ
659	D105	B7F	3304010100220	Varactor	1436	R896	T6G	3001055620000	5.6kΩ
660	D106	B7F	3304010100220	Varactor	1437	R897	B2G	3001054740010	470kΩ
661	D107	B7G	3304010100220	Varactor	1438	R898	B2G	3001054740010	470kΩ
662	D108	B6G	3304010100220	Varactor	1439	R899	B2G	3001054740010	470kΩ
663	D109	B7G	3304010100220	Varactor	1440	R902	B3G	3001050000000	0Ω
664	D110	B6G	3304010100220	Varactor	1441	R904	B5C	3001050000000	0Ω
665	D111	B7E	3304010100220	Varactor	1442	R905	B5C	3001053330000	33kΩ
666	D112	B7E	3304010100220	Varactor	1443	R906	T4H	3001064730000	47kΩ
667	D113	B7F	3304010100220	Varactor	1444	R908	T4H	3001054720000	4.7kΩ
668	D116	B7E	3304010100220	Varactor	1445	R910	T6D	3001054720000	4.7kΩ
669	D117	B7E	3304010100220	Varactor	1446	R911	T5B	3001061030000	10kΩ
670	D121	B7G	3304010100220	Varactor	1447	R913	T6D	3001054720000	4.7kΩ
671	D122	B7G	3304010100220	Varactor	1448	R917	T5D	3001053340010	330kΩ
672	D125	B7G	3304010100220	Varactor	1449	R919	T5D	3001051540000	150kΩ
673	D126	B7G	3304010100220	Varactor	1450	R924	B4D	3001061020010	1kΩ
674	D127	T7E	3303030100010	Switching diode	1451	R925	T5D	3001064720000	4.7kΩ
675	D128	B4I	3303030100010	Switching diode	1452	R929	B2A	3001051010000	100Ω
676	D129	B5C	3303030800020	Switching diode	1453	R930	B3A	3001051030000	10kΩ
677	D230	B4C	3310240000000	ESD protection diode	1454	R931	B3A	3001054730000	47kΩ
678	D231	B4C	3310240000000	ESD protection diode	1455	R932	B3A	3001052030000	20kΩ
679	D232	B7D	3310240000000	ESD protection diode	1456	R934	B3A	3001055130010	51kΩ
680	D233	T2B	3310240000000	ESD protection diode	1457	R937	B3B	3001054720000	4.7kΩ
681	D234	T5C	3310240200000	ESD protection diode	1458	R938	B3B	3001051030000	10kΩ
682	D236	T6C	3310240200000	ESD protection diode	1459	R940	B3B	3001052230010	22kΩ
683	D237	T4B	3310990000090	ESD protection diode	1460	R941	B3B	3001051020010	1kΩ
684	D238	T2C	3310240000000	ESD protection diode	1461	R942	B3B	3001054720000	4.7kΩ
685	D239	T5B	3310240200000	ESD protection diode	1462	R943	B2A	3001064730000	47kΩ
686	D240	T2A	3310240000000	ESD protection diode	1463	R944	B3B	3001052230010	22kΩ
687	D402	T2C	3310240000000	ESD protection diode	1464	R945	B3B	3001051030000	10kΩ
688	D403	T2A	3310240000000	ESD protection diode	1465	R946	B3A	3001071020000	1kΩ
689	D404	T2B	3310240000000	ESD protection	1466	R947	B3B	3001051020010	1kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
				diode					
690	D405	T2B	3310240000000	ESD protection diode	1467	R948	B2A	3001051010000	100Ω
691	D406	T2B	3310240000000	ESD protection diode	1468	R949	B2A	3001054730000	47kΩ
692	D407	T8B	3399040600010	ESD protection diode	1469	R950	T3C	3001051030000	10kΩ
693	D408	B8C	3399040600010	ESD protection diode	1470	R951	B3A	3001053330000	33kΩ
694	D409	T2C	3310240000040	ESD protection diode	1471	R952	B3A	3001053330000	33kΩ
695	D410	B2B	3310240000040	ESD protection diode	1472	R953	B3D	3001061000000	10Ω
696	D450	T2C	3699037000010	USB protection IC	1473	R954	B6D	3001061020010	1kΩ
697	D6100	T4J	3399030000010	PIN diode	1474	R955	B2A	3001052030000	20kΩ
698	D6101	T4J	3304010100890	Varactor	1475	R956	B2A	3001051840000	180kΩ
699	D6102	T4J	3304010100890	Varactor	1476	R957	B2A	3001051020010	1kΩ
700	D6103	T6J	3304010100890	Varactor	1477	R958	B3D	3001066810000	680Ω
701	D6104	T6J	3304010100890	Varactor	1478	R959	B2A	3001056830000	68kΩ
702	D6105	T5J	3399990004910	Limiter diode	1479	R961	B3D	3001083310010	330Ω
703	D6106	B7J	3699019000000	Mixer IC	1480	R962	T3C	3001060000000	0Ω
704	D6204	B3A	3303030100010	Switching diode	1481	R963	T3C	3001060000000	0Ω
705	D701	B6G	3304010100220	Varactor	1482	R964	T3C	3001052220010	2.2kΩ
706	D702	B5H	3304010100180	Varactor	1483	R965	T3C	3001060000000	0Ω
707	D801	T1H	3303990000020	Switching diode	1484	R966	B2D	3001161510010	150Ω
708	D802	T2I	3303990000020	Switching diode	1485	R968	T2C	3001052220000	2.2kΩ
709	D803	T3J	3303030300000	Schottky diode	1486	R969	T2C	3001064730000	47kΩ
710	D804	T2I	3303030300000	Schottky diode	1487	R970	T2C	3001061020010	1kΩ
711	D805	B4H	3302030500030	Zener diode	1488	R971	T3C	3099052741000	2.74kΩ
712	D900	T2D	3399100000010	TVS diode	1489	R972	T3C	3001062220000	2.2kΩ
713	D902	T4C	3301100300030	Rectifier diode	1490	R974	B3A	3001062720000	2.7kΩ
714	D910	B2A	3302030500010	Zener diode	1491	R975	B3A	3001052030000	20kΩ
715	D911	B2A	3302030500010	Zener diode	1492	R976	T7D	3001050000000	0Ω
716	D914	B3A	3303240000000	Switching diode	1493	R978	B3A	3001052720000	2.7kΩ
717	D915	T3C	3303010500290	Switching diode	1494	R979	T6C	3001051030000	10kΩ
718	D916	T2A	3303010500090	Switching diode	1495	R980	T6C	3001051040000	100kΩ
719	D917	T3C	3302030500030	Zener diode	1496	R981	B3A	3001051030000	10kΩ
720	D918	T3C	3302030500030	Zener diode	1497	R982	T3C	3001051040000	100kΩ
721	D919	T2A	3303010500090	Switching diode	1498	R983	T6D	3001050000000	0Ω
722	D920	B2B	3303240000000	Switching diode	1499	R984	B3A	3001052210000	220Ω
723	D921	T2A	3302030500030	Zener diode	1500	R985	T6C	3001050000000	0Ω
724	D922	T7C	3303010500090	Switching diode	1501	R986	T6D	3001050000000	0Ω
725	F900	B2B	4002000000340	Fuse	1502	R987	T7C	3001050000000	0Ω
726	J400	T8C	5201020200030	Board-to-board connector	1503	RN230	B6C	3005051010010	100Ω
727	J404	B8C	5206040200010	FFC connector	1504	RN500	B7B	3005051010010	100Ω
728	L1	B7F	3213212332000	3.3uH	1505	RT804	B3G	3003061040000	100kΩ
729	L103	B7E	3217607471000	470nH	1506	S1	/	6202720000010	PA heat sink pad
730	L105	B7E	3237199120000	Air-core coil 12.5nH	1507	T6100	B7J	3259999999080	Transformer
731	L106	B7E	3214307390000	39nH	1508	T6101	B8J	3259999999080	Transformer
732	L107	B7E	3217607471000	470nH	1509	U100	T8F	3604019000000	PLL IC
733	L108	B6E	3217607471000	470nH	1510	U101	T7F	3616059000000	Switch IC
734	L110	B7F	3217607471000	470nH	1511	U102	T7E	3616059000000	Switch IC
735	L112	B6E	3217607471000	470nH	1512	U201	B5B	3602017000030	Audio amplification IC
736	L114	B7F	3237199120000	Air-core coil 12.5nH	1513	U231	B6C	3613010000000	Baseband IC
737	L115	B7F	3217607330000	33nH	1514	U232	T5B	3612024000020	Memory
738	L116	B7E	3217607471000	470nH	1515	U233	T6A	3612016000000	Memory
739	L117	B7G	3217607471000	470nH	1516	U235	B5C	3605010000020	Operational amplifier
740	L118	B8G	3217607471000	470nH	1517	U236	B4C	3605010000020	Operational

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
									amplifier
741	L121	B7F	3217607471000	470nH	1518	U237	B6B	3616010000000	Switch IC
742	L122	T8G	3210306180000	18nH	1519	U238	B6A	3605008005070	Operational amplifier
743	L123	T7G	3210306180000	18nH	1520	U302	T6B	3610010000010	MCU
744	L124	B7G	3237199190000	Air-core coil 18.5nH	1521	U326	T3B	3625999000060	GPS module
745	L126	B7G	3214307390000	39nH	1522	U327	T6D	3607010000400	Logic IC
746	L127	B7G	3217607471000	470nH	1523	U328	B2C	3607010000400	Logic IC
747	L128	T8G	3210306330000	33nH	1524	U401	B2B	3616010000150	Switch IC
748	L129	B6G	3217607471000	470nH	1525	U500	B7C	3606010000010	D/A conversion IC
749	L131	T7E	3221506601000	Ferrite bead	1526	U6000	B4H	3605002057090	Operational amplifier
750	L132	T7E	3210306330000	33nH	1527	U701	T5H	3603999000000	IF IC
751	L133	B6G	3217607471000	470nH	1528	U702	T4I	3608006000000	Power management IC
752	L134	B7G	3217607471000	470nH	1529	U703	T4H	3608015000060	Power management IC
753	L135	T7E	3210306330000	33nH	1530	U801	B4H	3605026000020	Operational amplifier
754	L136	T6E	3210306180000	18nH	1531	U802	B4H	3605002054590	Operational amplifier
755	L137	B7G	3237199190000	Air-core coil 18.5nH	1532	U804	B3G	3605008005070	Operational amplifier
756	L138	T7E	3210306330000	33nH	1533	U900	T5C	3608015000180	Power management IC
757	L139	B7G	3214307390000	39nH	1534	U901	T2A	3608015000180	Power management IC
758	L140	B7G	3217607471000	470nH	1535	U902	T5C	3608010000350	Power management IC
759	L147	T7B	3210406471000	470nH	/1536	U903	T5B	3608015000170	Power management IC
760	L151	T7B	3210406471000	470nH	1537	U905	B4D	3608015000060	Power management IC
761	L152	B7F	3221506601000	Ferrite bead	1538	U907	T6D	3626999000020	Reset IC
762	L154	T8F	3213306561000	0.56uH	1539	U909	B4D	3608015000180	Power management IC
763	L156	T7F	3213212332000	3.3uH	1540	U910	T7C	3626015000010	Reset IC
764	L162	T7G	3210306560000	56nH	1541	U914	T3C	3605008005070	Operational amplifier
765	L166	T7G	3210306560000	56nH	1542	U915	B7D	3608015000060	Power management IC
766	L167	B8G	3210306270000	27nH	1543	U917	B2A	3609006003050	Reset IC
767	L168	B8E	3210306270000	27nH	1544	U918	B7D	3608015000210	Power management IC
768	L169	T8G	3210306560000	56nH	1545	U919	T5D	3608010006230	Power management IC
769	L171	T7G	3210306150000	15nH	1546	W321	T3A	4411100002000	IPX RF connector
770	L173	T7G	3212106120000	12nH	1547	X100	T8E	3701019250030	TCXO
771	L2	T7E	3210306180000	18nH	1548	X302	T7B	3701019250040	TCXO
772	L232	B4C	3221506300000	Ferrite bead	1549	X375	T7B	3701327610060	Crystal
773	L233	B5C	3211506101000	Ferrite bead	1550	Z6100	T8I	3802733540030	Crystal filter
774	L234	B5D	3211506101000	Ferrite bead	1551	/	/	3608015000170	Power management IC
775	L235	B5D	3211506101000	Ferrite bead	1552	/	/	9830000000001	Voice encoding/decoding software
776	L321	T3A	3212106390000	39nH	1553	/	/	41MD7801000L0	PCB main board
777	L322	T3A	3221506300000	Ferrite bead	1554	/	/	1616100001420	Built-in software

UHF5 (806 – 941 MHz)

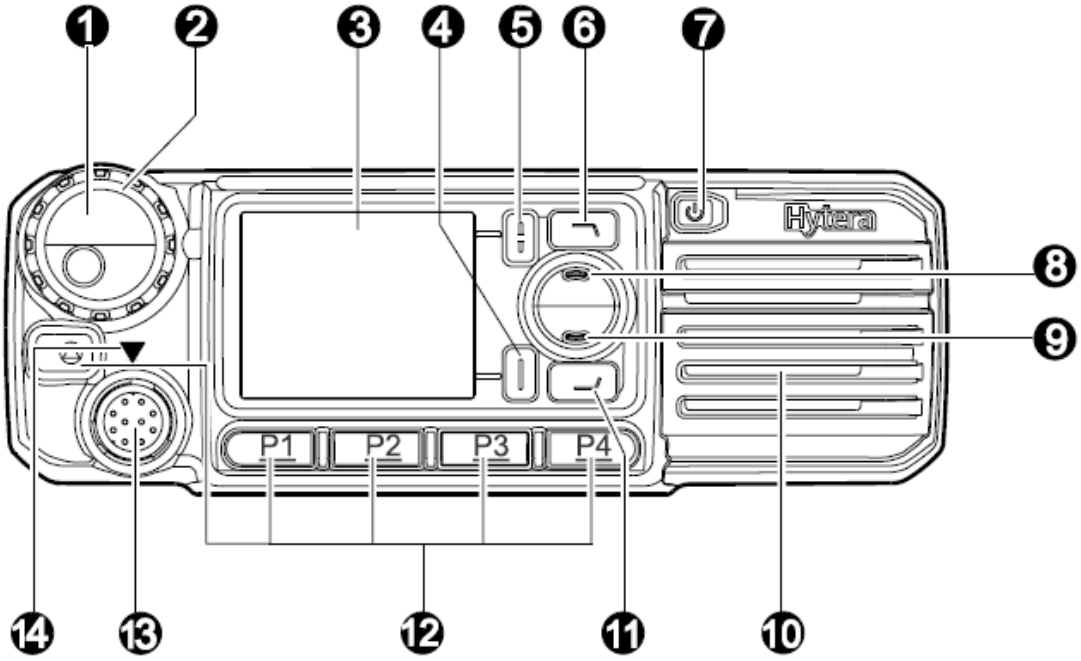
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1. Product Controls

Front Panel

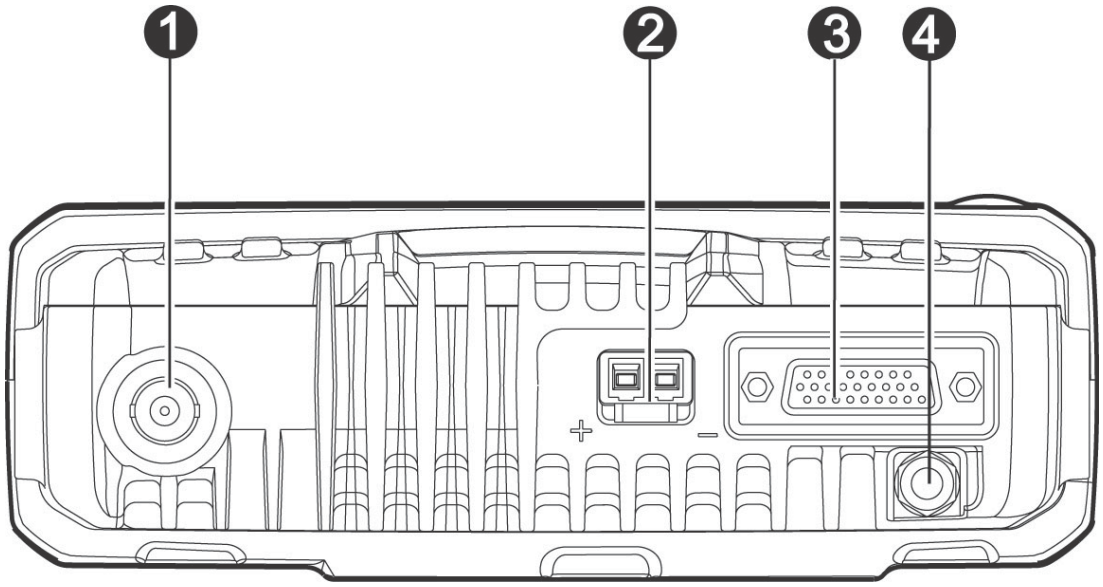


No.	Part Name	No.	Part Name
1	Volume Control/Group Call Selector Knob	8	Up Key
2	LED Indicator	9	Down Key
3	LCD Display	10	Speaker
4	OK/Menu Key	11	Redial/Answer/Call Key
5	Back/Group Call Management Key	12	Programmable Keys
6	Dial-back/End/Home Screen Key	13	Microphone Connector
7	Power On/Off Key	14	Microphone Installation Index

Note

The above-mentioned product control is based on the mobile radio in the trunking mode. In the conventional mode, No. 1 serves as Volume Control / Channel Selector Knob, and No. 6 & No.11 serve as the Programmable Keys.

Rear Panel



No.	Part Name	No.	Part Name
1	RF Antenna Connector	3	Accessory Connector
2	Power Inlet	4	GPS Antenna Connector

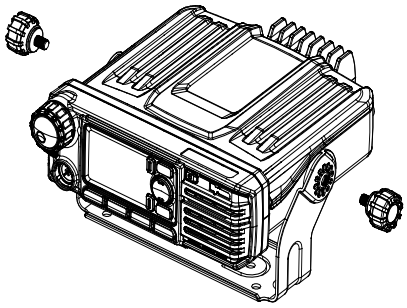
Note

The GPS antenna interface is only available for MD78XG.

2. Disassembly and Reassembly

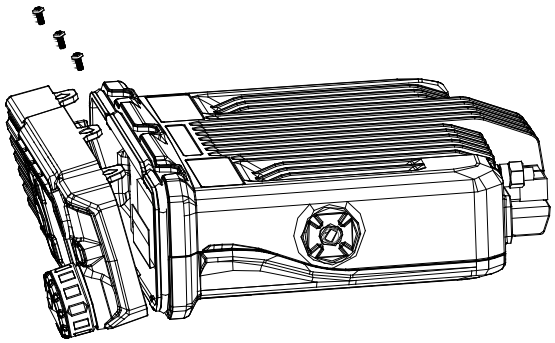
2.1 Disassembling the Radio

Step 1 Turn off the radio and remove the power cord, and loosen the two screws to remove the radio.

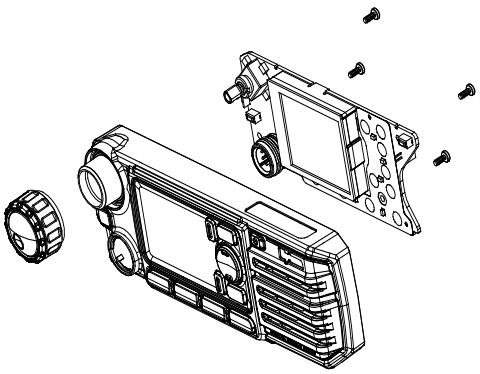


Step 2 Remove the antenna.

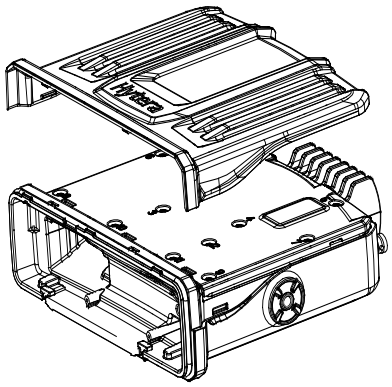
Step 3 Loosen the three screws to remove the front panel. Then remove the FFC.



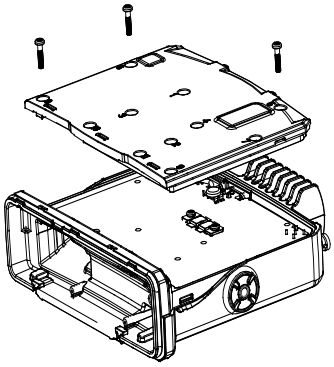
Step 4 Detach the volume control knob and loosen the four screws. Then remove the PCB from the control panel.



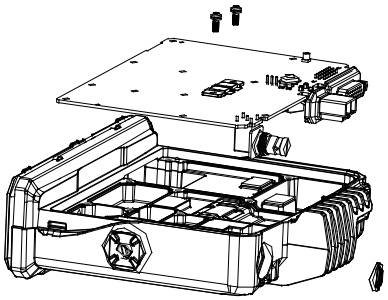
Step 5 Undo the clips on both sides of the radio, and then remove the rear cover.



Step 6 Loosen the eleven screws to remove the upper shield cover.



Step 7 Loosen the screw fixing the antenna connector and two screws fixing the PA module. Then take the PCB out.

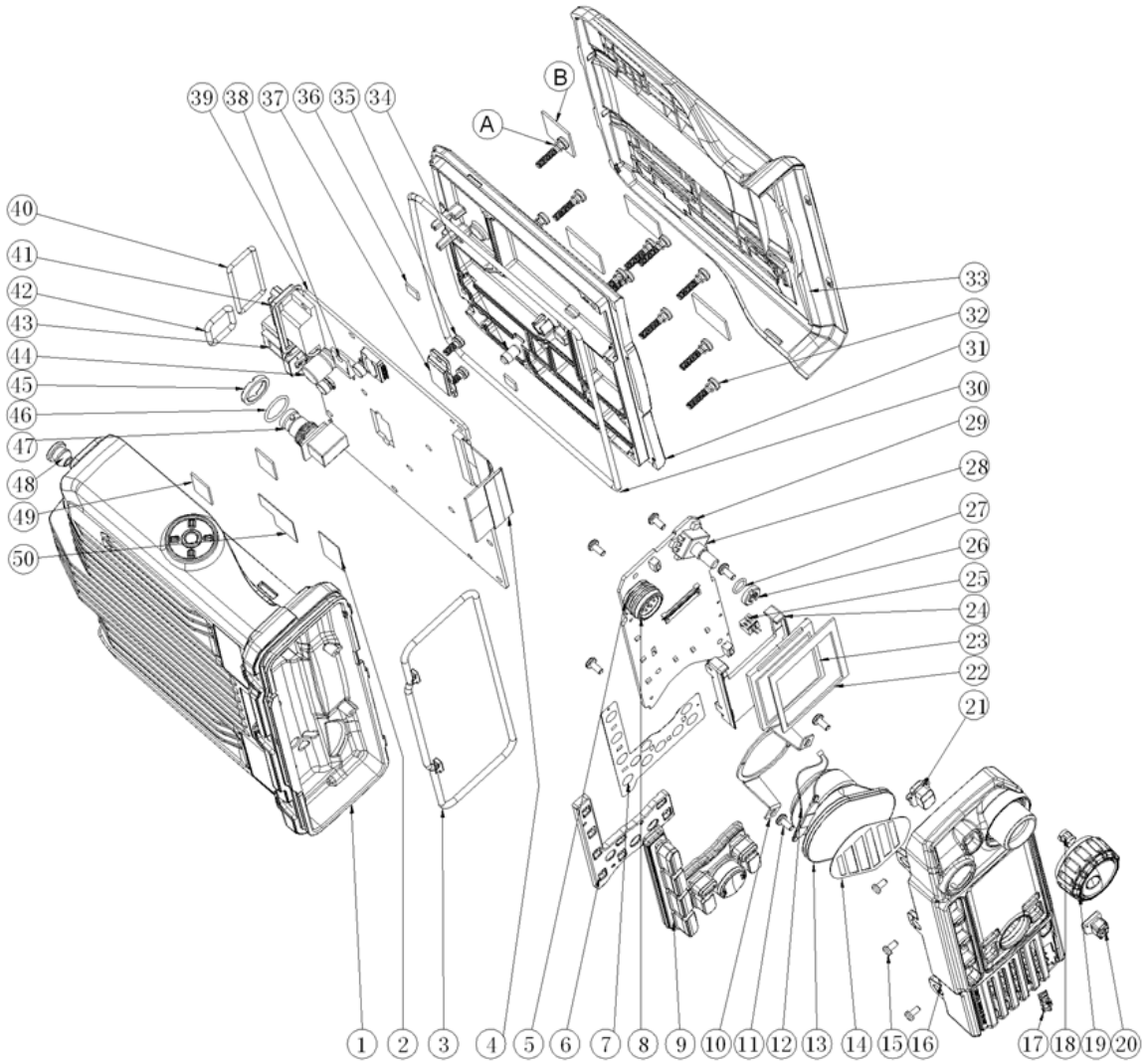


2.2 Reassembling the Radio

To reassemble the radio, perform the above steps in a reverse way.

3. Exploded View and Packing Guide

3.1 Exploded View



Part list:

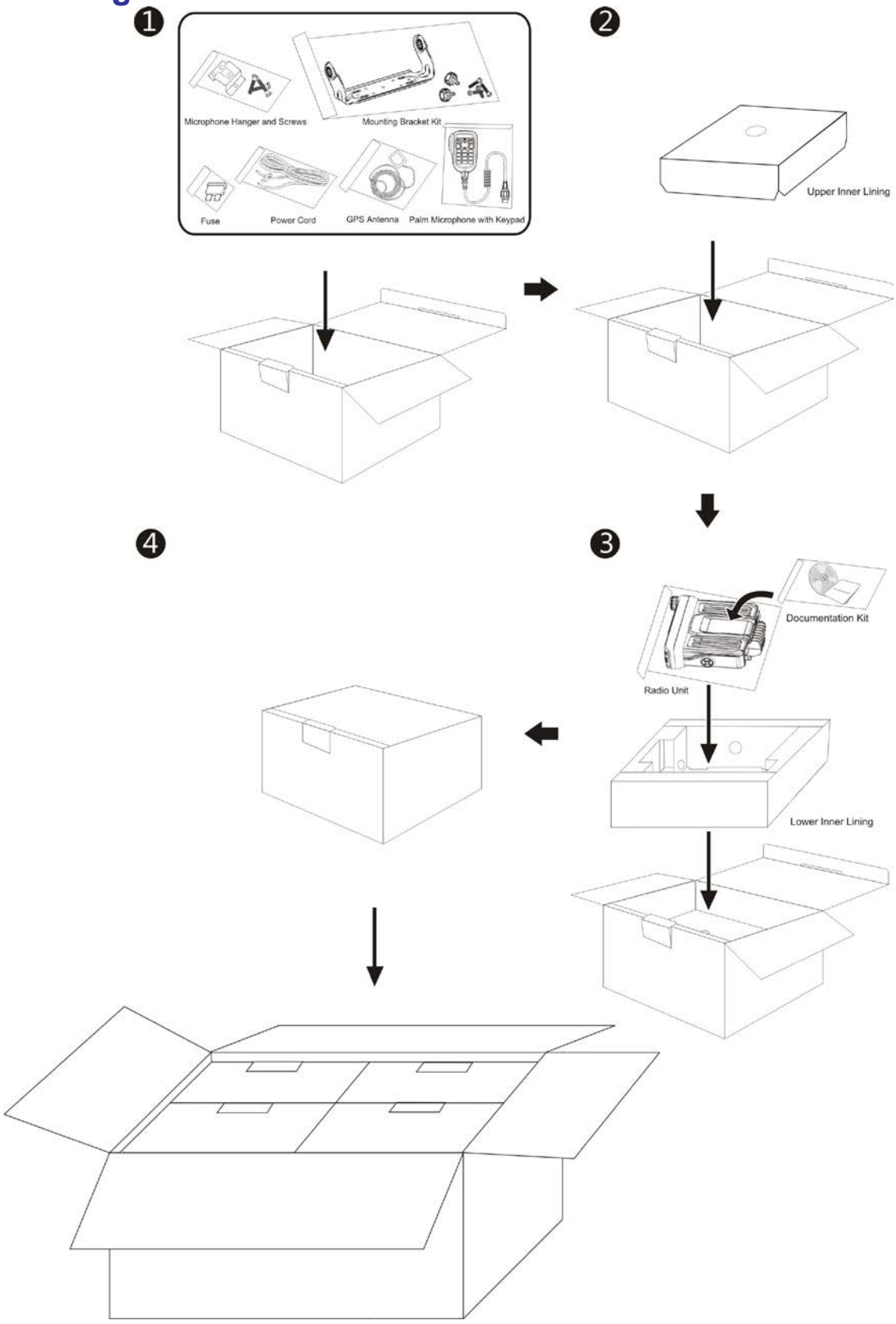
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
1	6300109000000	Aluminum chassis	1	27	6100334000000	O-ring for encoder switch	1
2	7500358000000	Heat sink pad	1	28	4399030000020	Rotary switch	1
3	6100492101000	Waterproof ring for front case	1	29	41078001000J0	PCB for control panel	1
4	4210090000200	Signal cable	1	30	6100533101000	Waterproof ring for aluminum chassis	1
5	5208010100010	Connector (male)	1	31	6300126000000	Upper cover of the aluminum chassis	1
6	6001079000000	Light-guide plate for keys	1	32	7103015000000	Machine screw	11
7	7300048000000	Metal dome	1	33	6001080000000	Plastic upper cover	1
8	6100408001000	Waterproof ring for microphone jack	1	34	6100496000000	Conductive silicone rubber for main board	1
9	6100488000000	P+R front panel keys	1	35	7103008000400	Machine screw	2
10	6201893000000	Speaker fixing sheet	1	36	7500272000000	Heat sink pad	2
11	7102606021000	Self-tapping screw	6	37	/	Semi-finished PA with	1

No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
						heat sink pad	
12	4210080000700	Speaker cable (with 2-Pin plug)	1	38	3414999000020	PNP transistor	1
13	5001210000390	Speaker	1	39	/	Main PCB	1
14	7400297000000	Speaker felt	1	40	6100532100000	D_SUB waterproof ring	1
15	7102505000110	Machine screw	3	41	5208026100000	Jack	1
16	6001076000010	Front case for control panel	1	42	6100530100000	Waterproof ring for power socket	1
17	860P580600100	Logo	1	43	5205002100110	Power socket (male)	1
18	6201739000000	Inner lining for knob	1	44	3103994770150	Electrolytic capacitor	1
19	6000876000000	Encoder knob	1	45	7212002500000	Nut	1
20	6100493000000	Power on/off key	1	46	6100531100000	Waterproof ring for antenna connector	1
21	6100404000000	Emergency key	1	47	4401000009000	BNC RF connector	1
22	7500344000000	PORON pad	1	48	6100494000000	GPS soft stopple	1
23	5130000000040	TFT LCD 2.0" TFT	1	49	7500159000100	Thermal conductive silicone rubber	2
24	6001078000000	LCD bracket	1	50	7500357000000	Heat sink pad	1
25	5202002100270	Board-to-wire connector	1	A	6100574100000	O_ring	11
26	7207003700000	Nut	1	B	7500344000000	PORON pad	1

Note

Parts that are not marked with Part No. may vary with the radio frequency band.

3.2 Packing Guide



4. Specifications and Blind Spot

4.1 Specifications

General	
Frequency Range	● 806 – 825 MHz (for transmitting only) ● 851 – 870 MHz (for transmitting and receiving) ● 896 – 902 MHz (for transmitting only) ● 935 – 941 MHz (for transmitting and receiving)
Channel Capacity	1024
Group Capacity	64 (each with a maximum of 16 channels)
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz
Operating Voltage	13.6V±15% DC
Current Drain	● Standby: <0.6 A ● Receive: <2.0 A ● Transmit: 50 W: <12 A
Frequency Stability	±1.5 ppm
Antenna Impedance	50 Ω
Dimensions (H×W×D)	60 mm × 174 mm × 200 mm (2.4 inch × 6.9 inch × 7.9 inch)
Weight	1.7 kg (3.75 lbs)
LCD Display	220*176 pixels, 262000 colors, 2.0-inch, 4 rows
Transmitter	
Power Output	● 806 – 825 MHz: 10 – 35 W ● 851 – 870 MHz: 10 – 35 W ● 896 – 902 MHz: 10 – 30 W ● 935 – 941 MHz: 10 – 30 W
Conducted/Radiated Emission	● -36 dBm <1 GHz ● -30 dBm >1 GHz

FM Modulation	● 11K0F3E@12.5 kHz ● 14K0F3E@20 kHz ● 16K0F3E@25 kHz
4FSK Digital Modulation	● 12.5 kHz (data only): 7K60FXD ● 12.5 kHz (data and voice): 7K60FXW
Modulation Limit	● ±2.5 kHz@12.5 kHz ● ±4.0 kHz@20 kHz ● ±5.0 kHz@25 kHz
FM Hum and Noise	● 40 dB@12.5 kHz ● 43 dB@20 kHz ● 45 dB@25 kHz
Adjacent Channel Power	● 60 dB@12.5 kHz ● 70 dB@20/25 kHz
Audio Response	+1 dB to -3 dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE++ or SELP
Digital Protocol	ETSI-TS102 361-1, -2, -3
Receiver	
Sensitivity	Analog: ● 0.3 μV (12 dB SINAD) ● 0.22 μV (Typical) (12 dB SINAD) ● 0.4 μV (20 dB SINAD) Digital: ● 0.3 μV /BER5%
Adjacent Channel Selectivity	● TIA-603: 65 dB@12.5 kHz/75 dB@20/25 kHz ● ETSI: 60 dB@12.5 kHz/70 dB@25/20 kHz
Intermodulation	● TIA-603: 75 dB@12.5/20/25 kHz ● ETSI: 70 dB@12.5/20/25 kHz

Spurious Response Rejection	● TIA-603: 75 dB@12.5/20/25 kHz ● ETSI: 70 dB@12.5/20/25 kHz
Blocking	● TIA-603: 90 dB ● ETSI: 84 dB
Hum and Noise	● 40 dB@12.5 kHz ● 43 dB@20 kHz ● 45 dB@25 kHz
Rated Audio Power	● Internal (20 Ω load): 3 W ● External (8 Ω load): 7.5 W
Max. Audio Power	● Internal (20 Ω load): 8 W ● External (8 Ω load): 20 W
Rated Audio Distortion	≤ 3%
Audio Response	+1 dB to -3 dB
Conducted Spurious Emission	< -57 dBm
Environment	
Operating Temperature	-30℃ to +60℃
Storage Temperature	-40℃ to +85℃
ESD	IEC 61000-4-2 (level4) ±8 kV (contact) ±15 kV (air)
American Military Standard	MIL-STD-810 C/D/E/F/G
Dust & Water Protection	IP54
Humidity	Per MIL-STD-810 C/D/E/F/G Standards
Shock and Vibration	Per MIL-STD-810 C/D/E/F/G Standards

GPS (for MD780XG only)	
Accuracy specs are for long-term tracking (95th percentile values>5 satellites visible at a nominal -130dBm signal strength).	
TTFF (Time To First Fix) Cold Start	< 60s
TTFF (Time To First Fix) Hot Start	<10s
Horizontal Accuracy	<10 m

Note

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

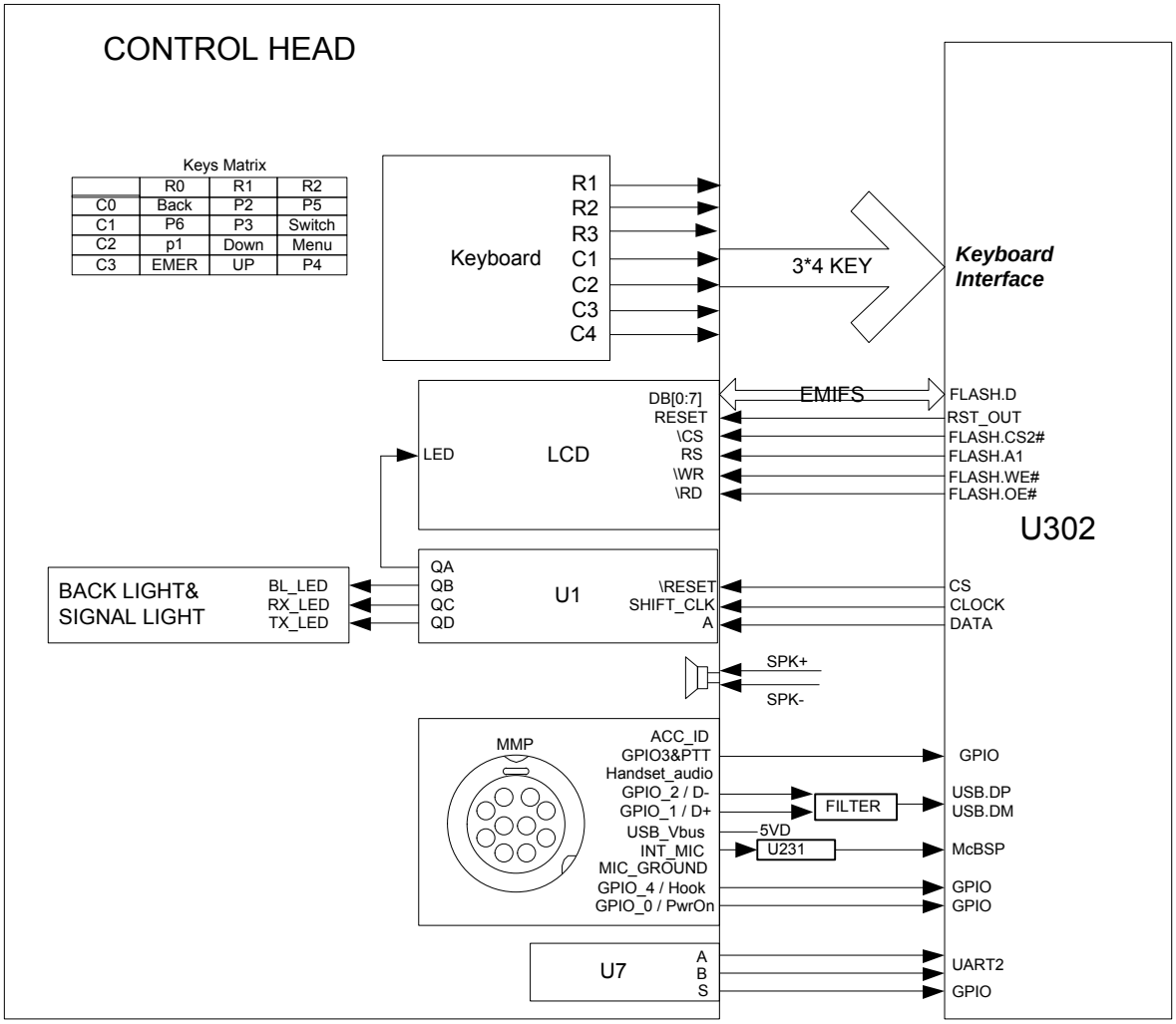
4.2 Blind Spot

No.	Blind Spot (MHz)	No.	Blind Spot (MHz)
1	864	3	940.8
2	936	4	/

5. Circuit Description

5.1 Front Panel

Front panel includes components such as power supply, keys, LCD, LED indicators, backlight, MMC interface and volume control knob. The function diagram is shown below.



Power Supply

The power supply of the main board powers the front panel via U902 (5 V), and serves as the power supply for LED indicator, backlight and USB devices. Then the power is further fed to U5, so as to power the LCD module and U1 (serial-to-parallel converter IC).

Keys

The front panel includes 12 keys, each of which has different functions in different operation mode. The identifications of each key on the front panel are realized by the 3*4 matrix keyboard.

Key	Conventional Mode	Trunking Mode
Programmable Keys	S2, S3, S7, S8, S9, S10, and S12	S3, S7, S9, S10, and S12

Key	Conventional Mode	Trunking Mode
Navigation Key	S5 and S11	
OK/Menu Key	S4	
Back/Group Call Management Key	S6	
Power On/Off Key	S1	
Dial-back/End/Home Screen Key	/	S2
Redial/Answer/Call Key	/	S8

LCD

The front panel adopts TFT LCD to transfer data to U302 via the EMIFS data bus. The control signals include read/write enable signal, memory chip select signal, LCD chip select signal and reset signal, each of which is pulled up by R36, R35, R34, R33 and R6 respectively. The LCD module is powered by U5 which converts 5 V into 3.3 V.

LED Indicator and Backlight

The LED enable signal is fed to the serial-to-parallel converter IC (U1), and then is output by U302. RX status is indicated by green LED, and TX status by red LED. Backlight is activated upon any key press.

The red and green LEDs in series are powered by U902 (5 V) and controlled by Q2 and Q3. The backlight is also powered by U902 (5 V) and controlled by Q1. Control signals are output via U1.

MMC

For details, please refer to *Interface Definition.*

Audio Output

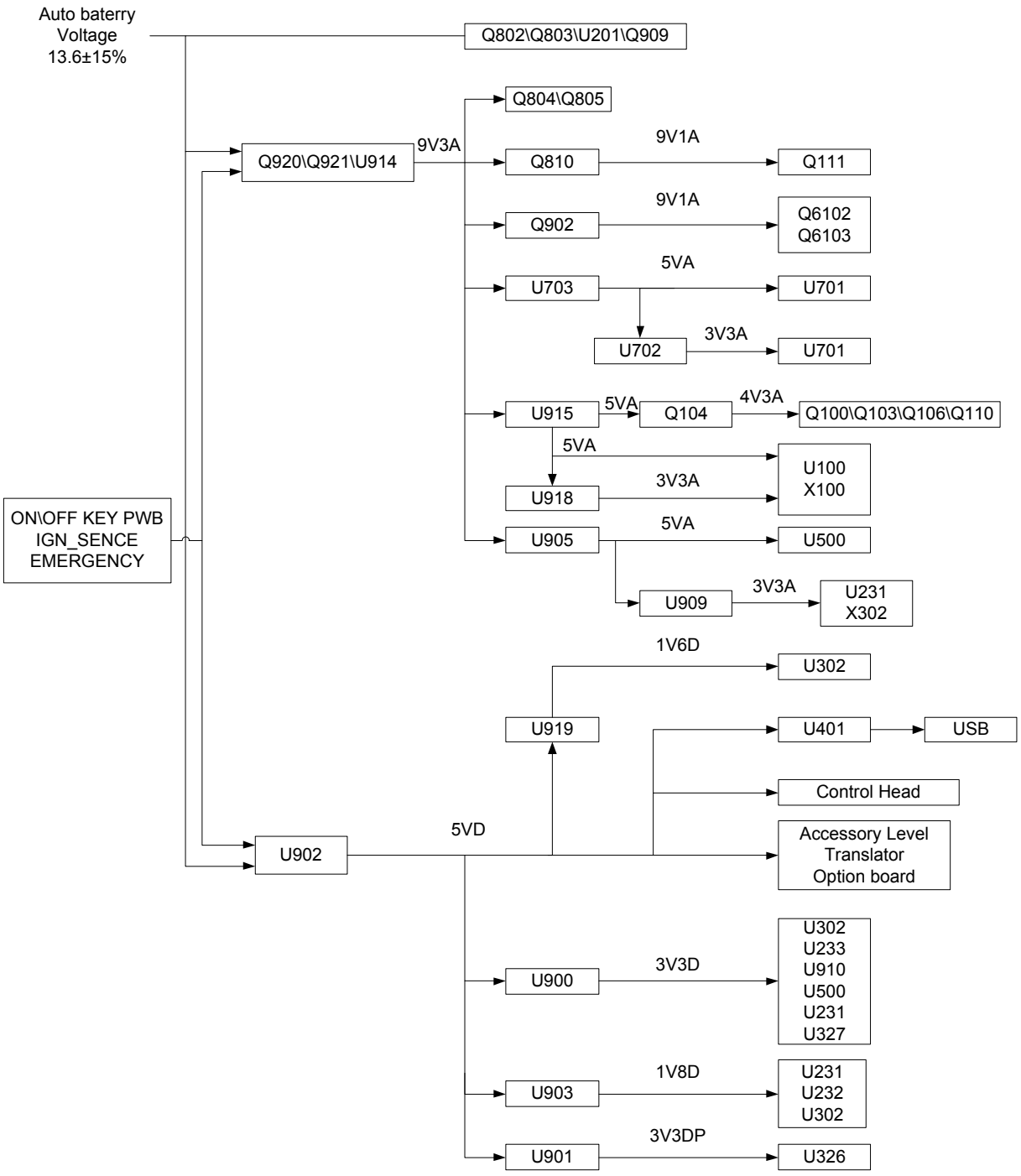
The front panel provides two audio outputs: Handset_audio and Internal_audio (SPK±). Handset_audio is the external output of received audio via MMC interface, while Internal_audio (SPK±) is connected to the internal speaker.

Volume Control

The volume control is facilitated by the rotary encoder switch (U7), which generates signals to be fed to U302 through GPIO17 and GPIO18 for volume adjustment.

5.2 Baseband

5.2.1 Power Supply Module



Both the baseband control IC and the RF section can convert the supplied voltage to an appropriate one via the voltage converter.

- Supply for RF: U914, Q920, and Q921 supply power for the RF section by high current PNP transistor and comparator, which can work as Low Dropout Regulator (LDR).
- Supply for FGU: U918 and U915 supply 3.3V and 5V respectively to U100.

- Supply for Baseband: The processor U302 is supplied by 3.3 V (U900), 1.8 V (U903) and 1.6 V (U919); the memory (U232/U233) is supplied by 3.3 V (U900) and 1.8 V (U903) respectively; the audio processor IC (U231) is supplied by 3.3 V (U905&U909&U900) and 1.8 V (U903); the DAC (U500) is supplied by 5 V (U905) and 3.3 V (U900).
- EXT_SWB+: It is supplied by 13.6 V (Q909).

5.2.2 Control Module

Power On/Off

The mobile radio can be powered on/off through any of the following methods:

- Power On/Off Key

  The mobile radio is turned on via the **Power On/Off** key. As this key is pressed, R944 becomes grounded and Q910 is on. Then Q905 outputs high-level signal, causing U902 and Q920 to start working. Afterwards, the processor (U302) executes user routines to maintain a high-level power control signal (PWR_CTR).In this case, the radio starts to work properly after the **Power On/Off** key is released.

  The mobile radio is turned off via the **Power On/Off** key. After this key is pressed, LQ910 is on and a low-level signal (PWB) to power off the radio is detected by U302, which then controls PWR_CTRL to output low level. Afterwards, the radio becomes powered off.

- Ignition Sense

  The mobile radio can be turned on when ignition is sensed. When the voltage of ignition signal exceeds 7 V, Q1 will be turned on by charging of C933, R955 and R956. As a result, the PNP transistor of Q905 will be further turned on to power the mobile radio. Meanwhile, Q401 will also be turned on, and U302 will identify ignition signals by detecting the signal from Q401; afterwards, the level PWR_CTRL is generated by the processor.

- Emergency

  When the emergency alarm pin is at low level, R940 is grounded, and Q906 is turned on to supply power for the mobile radio. Meanwhile, Q908 is also turned on and the low level is detected from U302. At this time, if the mobile radio is off, the PWR_CTRL signal will be output to power on the mobile radio and the emergency signal will be output. However, if the mobile radio is already on, the emergency alarm pin will be at lower level and only the emergency signal will be output.

Power-on process:

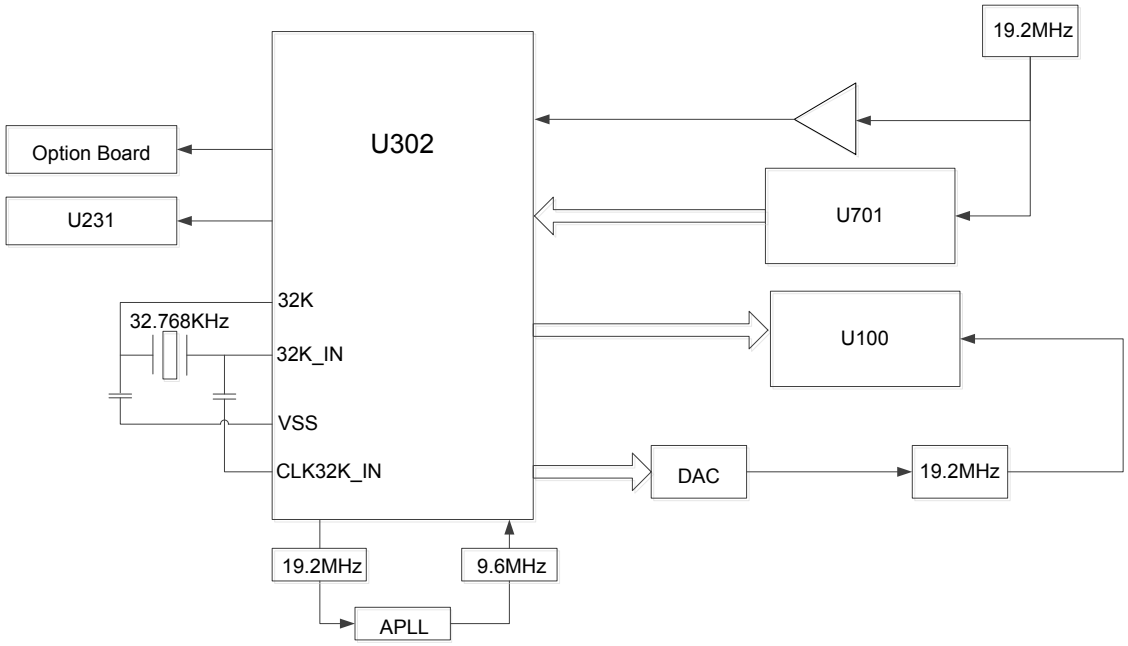
Step 1 Power on the mobile radio using one of the three methods (Power On/Off key, Ignition Sense, or Emergency);

Step 2 U917 generates reset signal and remains low level for 1.25 seconds, allowing the processor (U302) to get started.

Step 3 Power-on signal is sent to the processor (U302).

Step 4 After receiving the signal, the processor (U302) generates the level of PWR_CTRL. Then the power-up procedures are completed.

Clock



- Input Clock

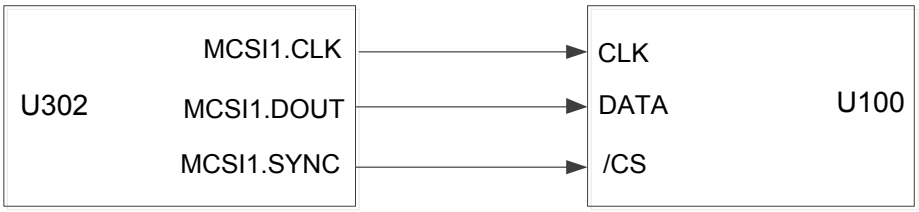
  The 32K clock provided by X375 is mainly used for timing and sleeping of the mobile radio. Its frequency (32.768 kHz) is divided by U302 (32768 times in all) to 1Hz for counting seconds. The system clock (19.2MHz) is generated by an external crystal oscillator.

- Output Clock

  The baseband outputs clock signals to U231, U100 and Option Board respectively.

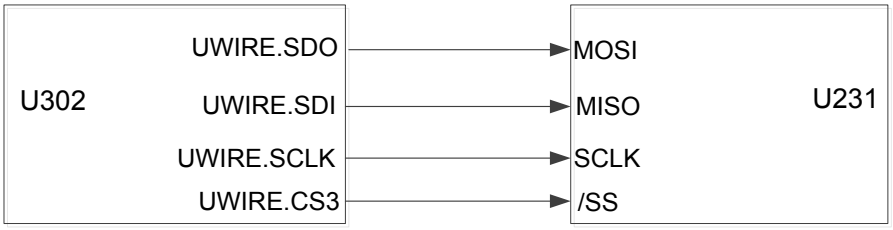
Interface Distribution

- MCSI Interface



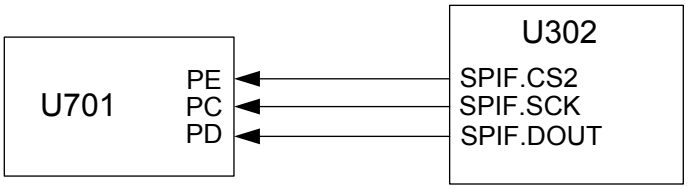
When U302 is communicating with U100, it works in Master Mode with clock frequency of up to 9.6 MHz. U100 uses MCSI1.CLK as the clock, MCSI1.DOUT as data cable to configure its register, and MCSI1.SYNC as chip select signal.

- MICROWIRE Interface



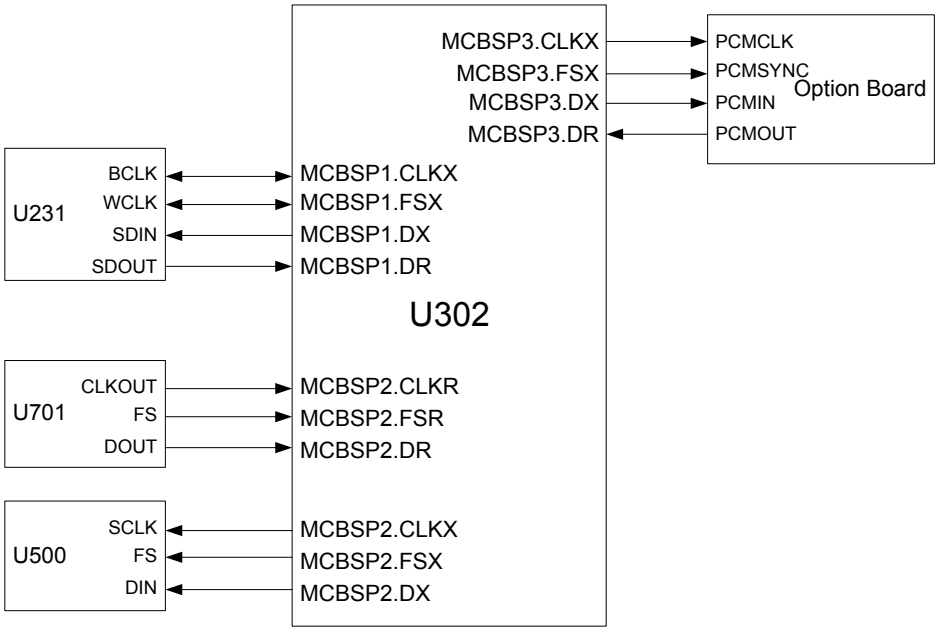
The MICROWIRE interface can accommodate four external devices at most, generally transmitting control and status messages of external devices, and reading data from ROM. Its maximum clock frequency is a quarter of system clock frequency. In this case, MICROWIRE is used to configure or read from the audio processor U231 and requires chip select signal CS3.

- Serial peripheral interface (SPI)



SPI of the processor U302 operates in Master mode, and it is controlled by MPU or DMA. In Master Mode, U302 can provide four chip select signals, of which CS2 is used to control the Intermediate Frequency (IF) digital processor U701.

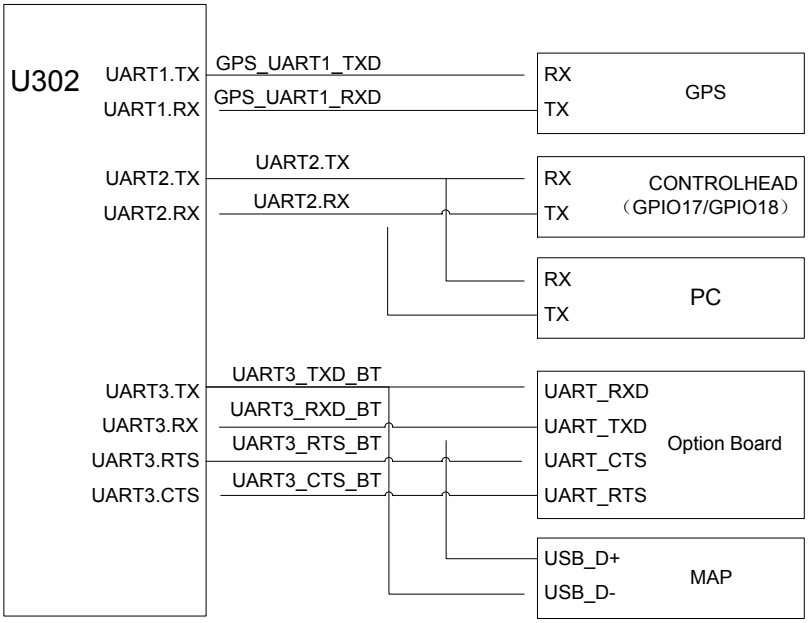
- Serial Synchronous Interface (SSI)



U302 provides three MCBSP interfaces including MCBSP1, MCBSP2 and MCBSP3, which are compatible with various interfaces.

- MCBSP1 is connected to the interface I2C of audio processor U231, to realize two-way transmission of digital voice and data.
- MCBSP2 uses independent clock and frame synchronization for transmission and reception. The SSI of U701 is connected to the RX end of MCBSP2 for U302. U500 is connected to the TX end of MCBSP2. In this case, U302 works in Master mode.
- MCBSP3 is connected to the Option Board interface for voice and data transmission

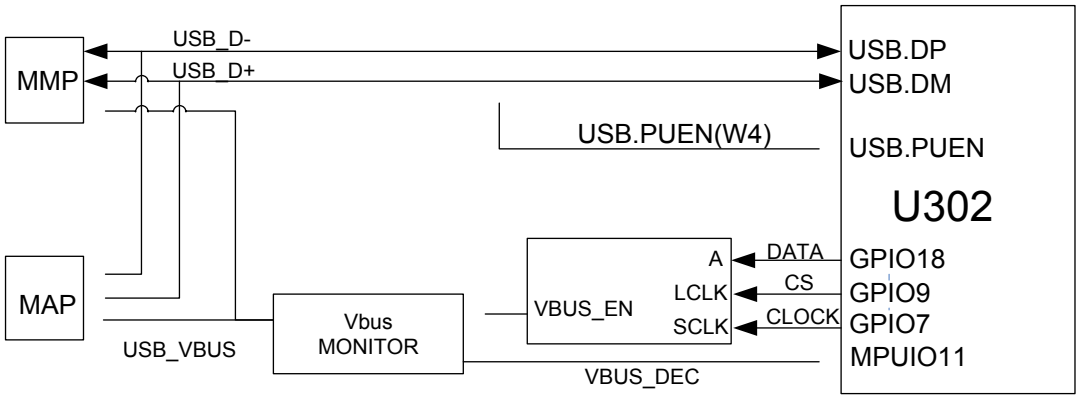
- UART Interface



Processor U302 provides three UART interfaces, which are used to communicate with different external devices.

- UART1 is used for communication with GPS module.
- UART2 is used for communication with front panel (GPIO17 and GPIO18).
- UART3 is used for communication with the Option Board and accessory connector.

- USB Interface



The mobile radio provides two USB interfaces, which are connected to the same USB signal port of the processor U302.

- Mobile Accessory Connector (MAC)

Mobile accessory connector contains audio interface, programmable I/O port, serial port, USB port, accessory identifier port and etc, which are applied for further development. For details, see 7 Interface Definition.

- Option Board Interface

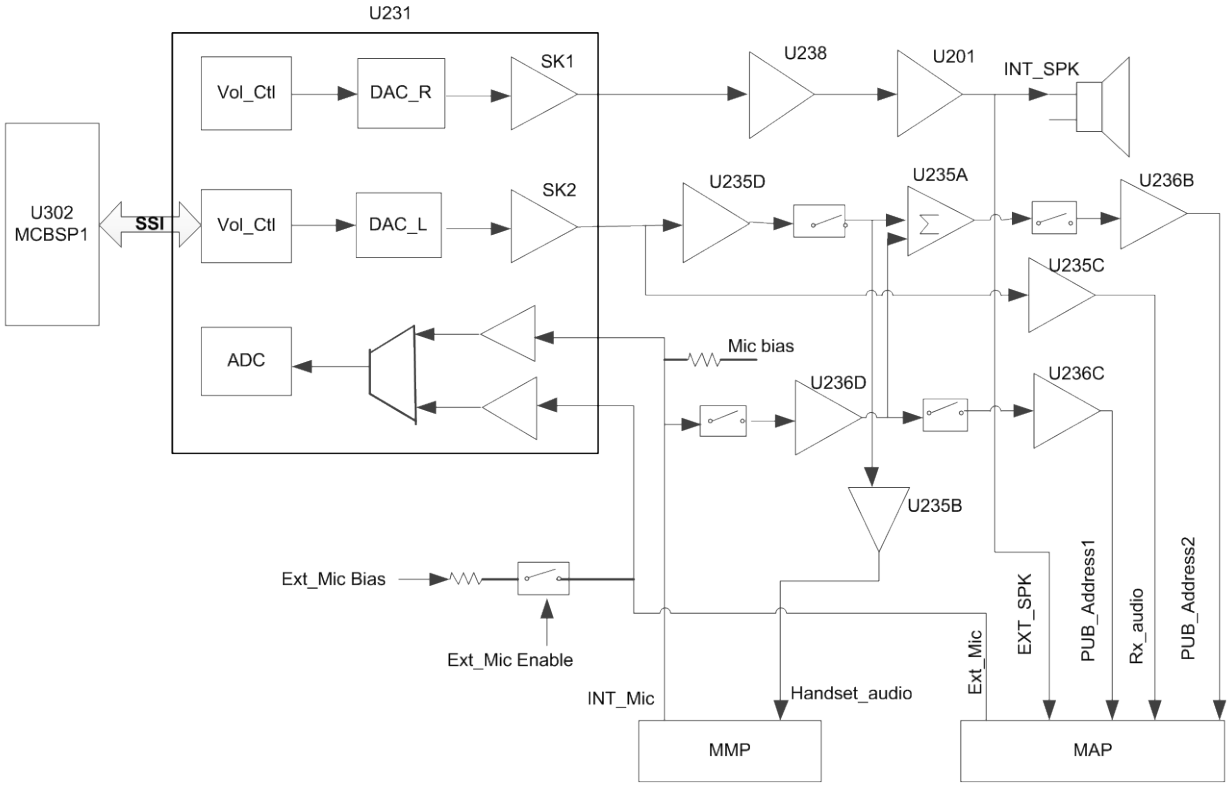
  J400, an option board interface, is used to achieve specific function by connecting to the designated option board. The definition of each pin is listed as below:

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remarks
1 3 5 7 9	GPIO1 GPIO2 GPIO3 GPIO4 GPIO5	GPIO GPIO GPIO GPIO RESET-OUT	I/O I/O I/O O O	VIH MIN=0.7VDD VIL MAX=0. 3VDD VOH MIN=0.8VDD VOL MAX=0.22VDD	GPIO5: output signal of resetting the option board. GPIO4/GPIO5: Unidirectional output interfaces. They require their input resistances are greater than or equal to 47 kΩ.
11 13 15 17	UART-TX UART-RX UART-CTS UART-RTS	UART	O I I O		UART.
2 4	I2C –SDA I2C -SCL	I2C	I/O O		I2C.
6 8 10 12	MCBSP-DR MCBSP-WCLK MCBSP-DX MCBSP-FSX	MCBSP	I I/O O I/O		McBSP: Multi-channel buffered serial port
14	AGND	AGND	/	/	/
16	AF OB TO MB	AF	I	80 mV (standard output from the option board to the main board)	MAX: 700 mV

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remarks
18	AF MB TO OB	AF	O	80 mV (standard output from the main board to the option board)	MAX: 700 mV
19	DGND	DGND	/	/	/
20	3V6 or 5V	Power	O	Voltage: 5.0 V	/

5.2.3 Audio Module

The audio module is used to output RX audio and input relay audio and TX audio, which serves as the RX audio path and TX audio path.



- RX Audio Path

  U302 sends digital audio signals to the audio processor codec (U231) via the SSI bus of MCBSP1.This bus is composed of CLKX, FSX, DX and DR. It sends the 16-digit demodulated PCM audio signal to the codec (U231), and adjusts the signal to appropriate amplitude according to the volume (RMS should be 80 mV when frequency is 1 kHz and deviation is 3 kHz). Then the codec (U231) converts PCM data into analog audio data via DAC.

  U231 provides two outputs: SPK1 and SPK2. SPK1 is amplified by U238 and then is fed to the PA U201, to derive two outputs of received audio, which will be applied to the front panel speaker and further development interface respectively. SPK2 is amplified and divided into the four paths of signal Handset_audio, RX_audio, PUB_Address1 and PUB_Address2. The first two paths are amplified by U235, and the last two paths are amplified by U236. Output of Handset_audio, PUB_Address1 and PUB_Address2 are controlled by Q231, Q235 and Q233 respectively.

- TX Audio Path

  The audio processor U231 has two MIC inputs: the internal MIC and external MIC. The internal MIC is connected to the MICIN_HND of U231, and is combined with AUX1 to provide differential input.

After 9.3 V is divided by R255 and R264, a bias voltage of about 7 V is provided to the front panel MIC. The external MIC is connected to the MIC_HED of the codec (U231) as a unidirectional input.

Both MICs are controlled by Q232.When the internal MIC is active, EXT_MIC_EN is at low level, bias voltage of external MIC is disconnected, and the ADC in U231 samples voltage at the MICIN_HND. When external MIC is active, EXT_MIC_EN is at high level, Q232 is turned on, bias voltage is connected, and the ADC in U231 senses only audio data at pin MICIN_HED.

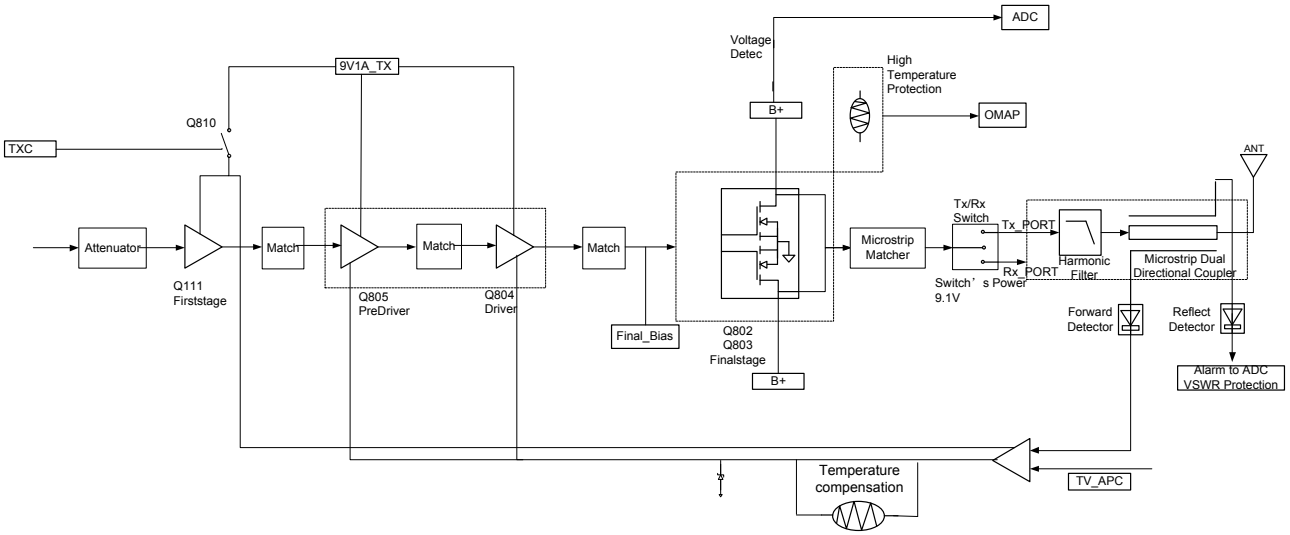
Audio signals input from the MMC interface and the accessory connector are fed to the Codec (U231) and then are converted by the ADC into 16-bit PCM digital audio signals, which will be fed to U302 via the SSI.

When the mobile radio is set to Public Address mode, the audio signal will be generated by the internal MIC, and then is buffered by U231, and finally is output via SPK2. The output audio signal is amplified, and then is output as the two paths of audio PUB_Address1 and PUB_Address2.

5.3 RF Section

5.3.1 Transmitter Circuit

The transmitter circuit is composed of power amplifier circuit and power control circuit. The former is used to amplify the voltage control oscillator (VCO) signal to the appropriate output power level, while the latter can keep the output power at the appropriate level, so as to protect the power amplifier from damage caused by overheating, antenna mismatch, and out-of-range voltage (over voltage or under voltage may result in damage to Q111, Q805, Q804, Q802 and Q803).



Power Amplifier Circuit

The power amplifier circuit consists of four-stage power amplifier circuits and amplifies the signal output from VCO to the required output power level.

- TX Buffer Amplifier

TX buffer amplifier provides 16 dB power gain by Q111.Adjust the bias circuit of TX buffer amplifier circuit to get a quiescent bias current of 28 mA for Q111. Power supply for the switching transistor Q810 is controlled by TX signal, so as to further control the power supply for the whole circuit.

- Pre-driver Power Amplifier

  The pre-driver power amplifier is formed by Q805, with variable gain controlled by voltage VGG. The input matching circuit is composed of C826, L826, L814, C843 and R824.

- Driver Power Amplifier

  The driver power amplifier is formed by Q804, with variable gain controlled by voltage VGG. Its maximum output power is 38.5 dBm and maximum gain is 11 dB.

- Final-stage Power Amplifier

  The final-stage power amplifier outputs via two LDMOS PA transistors (Q802 and Q803) which are in parallel connection. It can reduce the Q value of the PA input/output match network and expand the bandwidth of the PA circuit, ensuring the PA circuit's performance. Both Q802 and Q803 are controlled by the same bias network. Their static bias current can be adjusted via software to ensure output consistency.

Antenna Switch

The antenna switch is used to switch between the transmitter circuit and the receiver circuit.

- In TX mode

  TX signal controls the switching transistor Q810, to further control the power supply (9 V 3 A) for the PIN diodes D801 and D802. Quiescent bias current of the PIN diode is controlled by the resistors R821 and R825. In this mode, D801 and D802 are turned on; RF signals are transmitted via the antenna port through the low-pass filter (composed of C836, C837, C994, C830, C973, C838, C992, L809, L813, and L810).

- In RX mode

  TX signal controls the switching transistor Q810, to further control the power supply for the PIN diodes D801 and D802, which are not applied with DC bias current. When the two PIN diodes are turned off, signals feed into the RX path through the low pass filter (composed of L827, C852, and C995).

Low-pass Filter

The low-pass filter consisting of inductors (L809, L813, and L810) and capacitors (C836, C837, C994, C830, C973, C838, and C992), is used to attenuate harmonic energy from the transmitter.

Directional Coupler

The directional coupler is composed of components such as microstrip directional coupler, D803 and

D804. It is used to detect both forward and reverse power of the transmitter. The forward power is coupled to the diode D803, and the voltage is applied to the power control circuit (U801). Then U801 outputs the voltage VGG for controlling the gate voltage of Q805 and Q804, ensuring a constant power output. The reverse power is coupled to D804. The voltage is applied to U802 and then fed into U302 for detection.

Power Control

The TX power is controlled by power control chips U801. The forward power is applied to the directional coupler, to output a voltage that can represent the forward power. The voltage together with the preset voltage feeds to U801 to output a voltage VGG, which can control both gate voltage and gain of Q804 and Q805, ensuring a constant power output.

Thermal and Over-voltage Protection

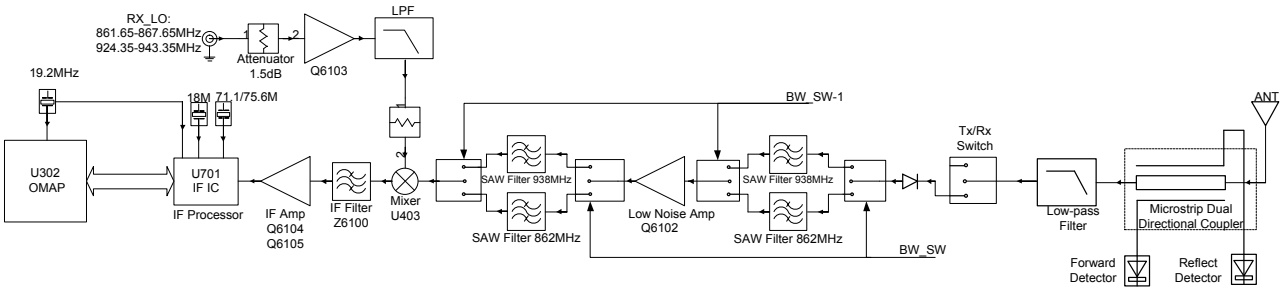
The circuit comprises thermistor RT804 and resistor R884. The output voltage is proportional to the detected temperature. Both the voltage used for temperature detection and the threshold voltage are fed to the operational amplifier U804, to output a voltage signal that is proportional to the detected temperature. The voltage is applied to software judgment via the diode D129, and then the preset voltage will be subsequently changed to lower TX power, and to protect the PA from over-heating.

Pressure Pad Switch

The power control circuit includes a pressure pad switch SW1, which is controlled by the conductive rubber part mounted on the upper cover. When the switch is turned off, the power control voltage VGG will become low, and no power will be output from PA. Otherwise, PA will work normally.

5.3.2 Receiver Circuit

The receiver circuit employs double conversion superheterodyne technique. The first IF is 73.35 MHz and the second IF is 2.25 MHz. The first local oscillator (LO) signal is supplied by the PLL circuit (U100), and the second LO signal (71.1 MHz/75.6 MHz) is supplied by IF processor circuit (U701). The major units are BPF and LNA, mixer, IF filter, IF amplifier, and IF processor.

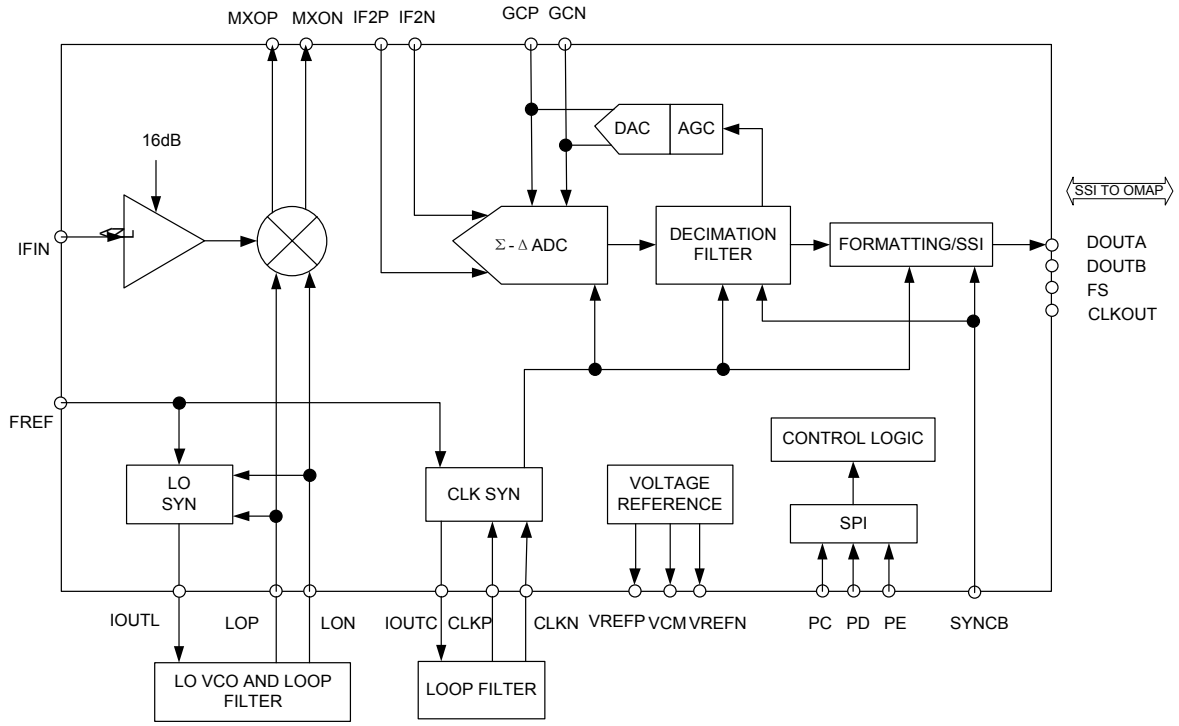


Receiver Front-end

RF signals are sent to the low-pass filter through the directional coupler to remove out-of-band signals, and are applied to the frequency selection circuit (composed of RF switch and surface acoustic wave

(SAW) filter) to remove unuseful signals in corresponding frequency band. After passing through the RF band-pass filter and LNA (Q6102), the RF signals together with the first LO signal are sent to the mixer for the first frequency conversion, to generate the first IF signal of 73.35 MHz. Meanwhile, The LO signal (12–13 dBm) from the VCO feeds to Q6103 to get a gain (8 dB). The first LO signal (73.35 MHz) passes through the IF filter (Z6100) to filter the out-of-band spurious signals, and then is sent to the two-stage IF amplifier circuit (composed of Q6104 and Q6105) for amplification. Finally the amplified signals go to the IF IC (U701) for digital processing.

Receiver Back-end



The first IF signal (73.35 MHz) output by the IF amplifier goes into IF IC via Pin 47, where the signal is converted to the second IF signal (2.25 MHz). Then the un-demodulated digital I/Q signal output from the SSI is sent to U302 for demodulation. IF IC employs a reference frequency of 19.2 MHz and shares the crystal with U302. The second LO VCO consists of the external transistor, varactor and relevant components, to provide the second LO signal. The clock frequency is 18 MHz, which is generated by the external LC (D702, L715 and C745) resonance loop.

DSP (U302) acquires the audio signal from IF IC. Then this signal goes through U302 to output data signal, which is sent to U231 and PIN44 (SSI_DI) for digital-to-analog conversion. Finally, the output analog audio signal will be subjected to gain control, and then fed to the speaker.

5.3.3 FGU Circuit

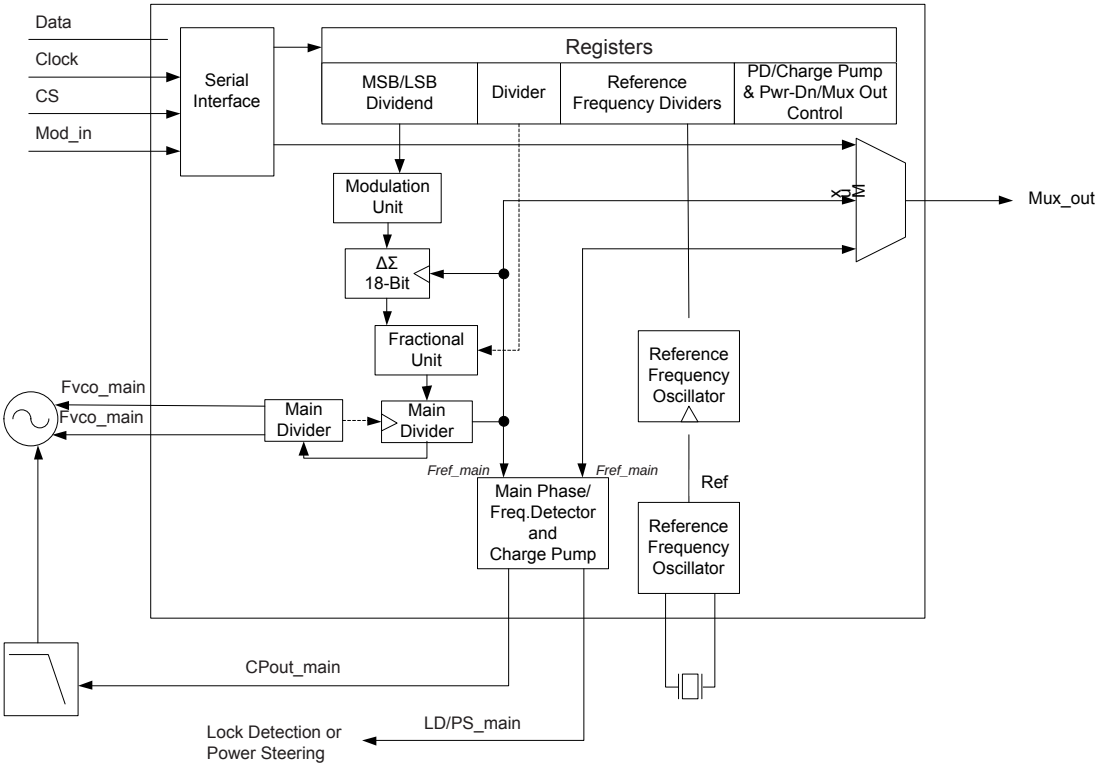
The PLL synthesizer that consists of the crystal oscillator (X100), PLL IC (U100) and VCO, is used to supply excitation signal source to the transmitter, and LO signal to the receiver.

Crystal Oscillator

Crystal oscillator (X100) employs a 19.2 MHz Temperature Compensated Crystal Oscillator (TCXO), and its reference frequency is calibrated by the digital-to-analog converter IC (U500) for accuracy.

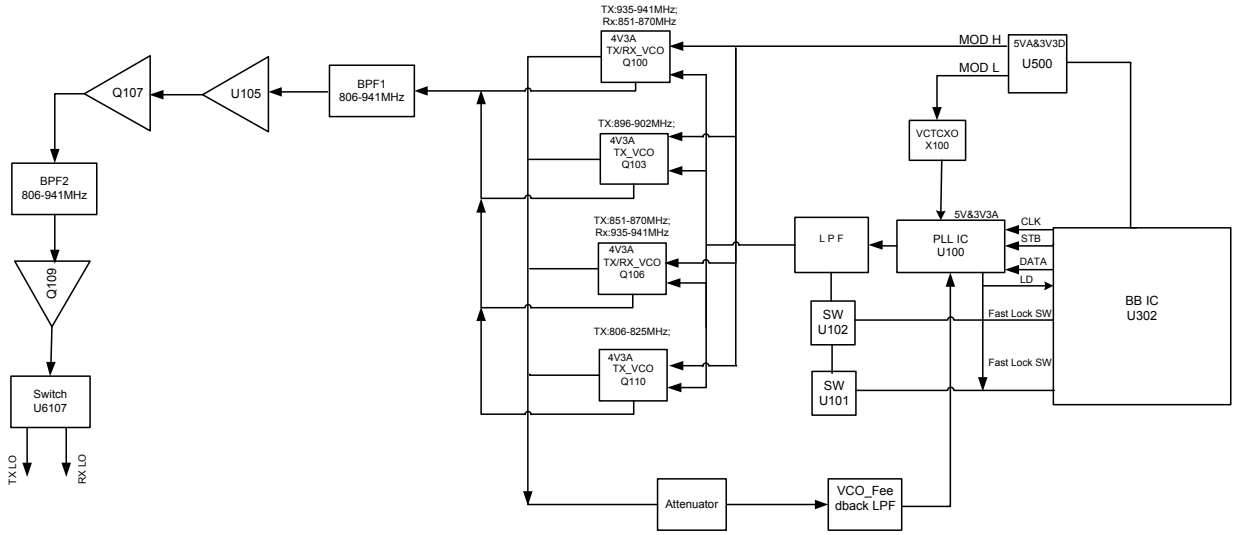
PLL IC

The PLL IC (U100) is a fractional frequency divider IC. The logic switch ICs (U101 and U102) work with the PLL IC (U100) to achieve locking.



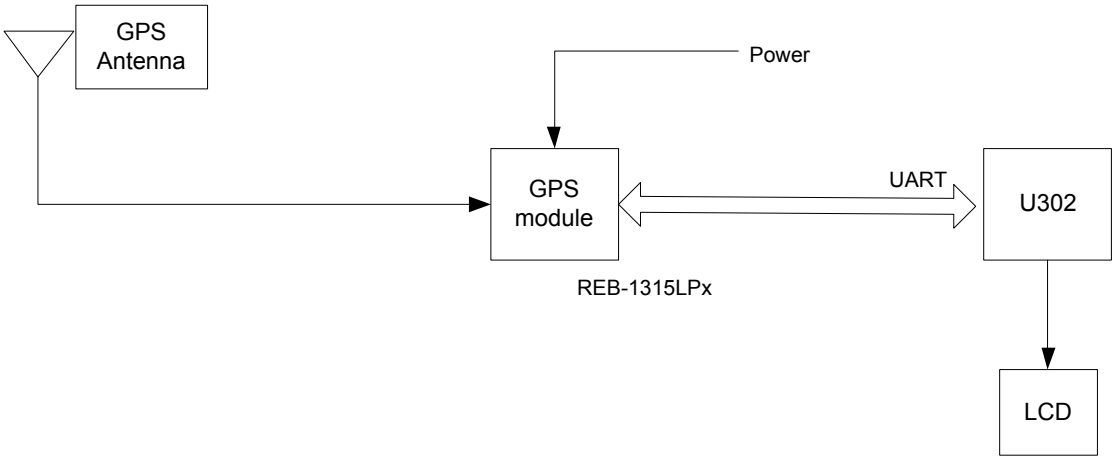
The 19.2 MHz frequency generated by the crystal oscillator (X100) goes into the PLL IC (U100) for frequency division, generating the reference frequency. Meanwhile, the frequency generated by VCO goes into PLL IC (U100) for frequency division. The resulting frequency will be compared with reference frequency in terms of phase difference in the phase detector. After comparison, the resulting frequency is converted to CV voltage via the loop filter, to control and lock the frequency.

Voltage-Controlled Oscillator (VCO)



VCO is composed of transistors (Q100, Q103, Q106 or Q110), varactors and Colpitts Oscillators. There are four TX excitation signal sources: Q100, Q103, Q106 and Q110, of which Q100 and Q106 are also used to receive LO signals. Q101, Q105, Q108 and Q112 control the operating frequency of the VCO. U105 isolates the output of VCO circuit while Q107 and Q109 constitute a two-stage buffer amplifier. The digital-to-analog converter IC (U500) modulates the TX oscillator signal.

5.4 GPS Circuit Section

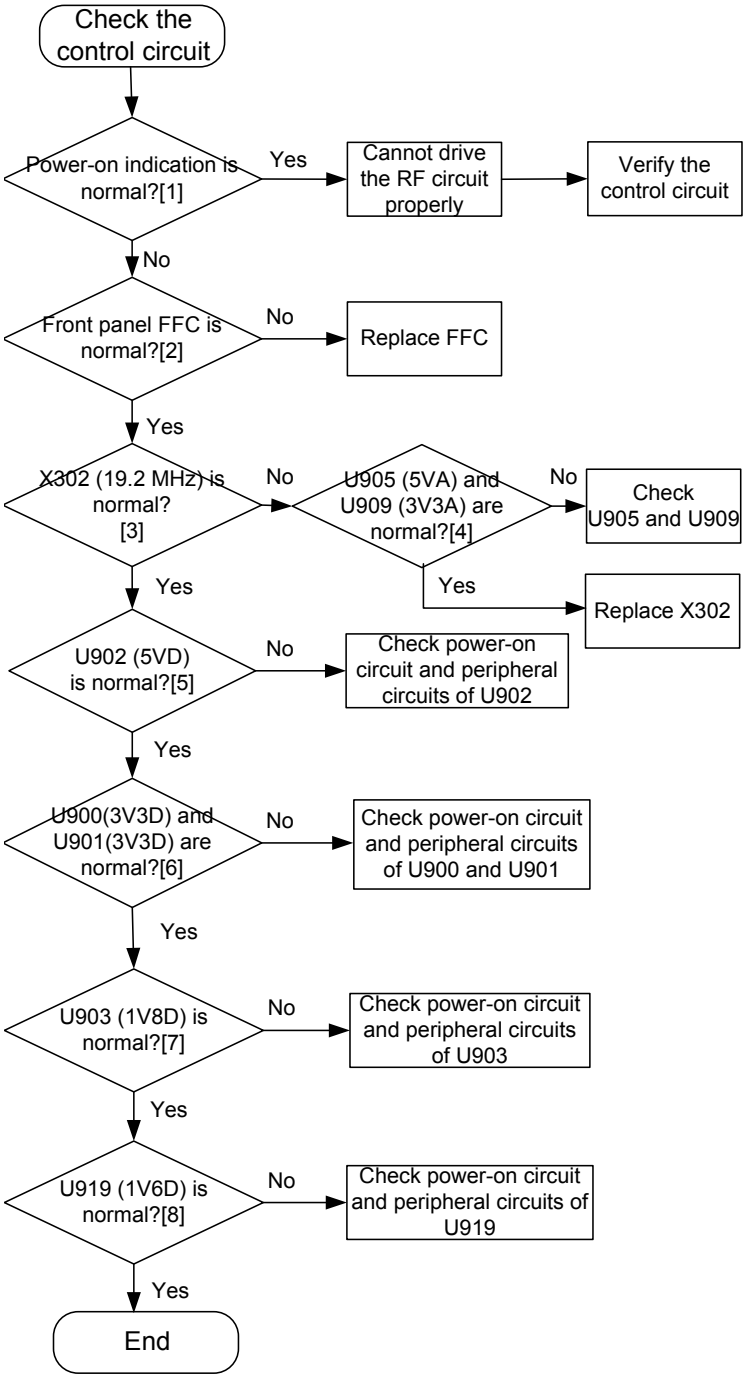


GPS data can be acquired via the programmable GPS key on the front panel of the mobile radio. The GPS function is realized via REB-1315LPx module, which integrates GPS baseband processor circuits.

The GPS signal (1.57542 GHz), received via the GPS active antenna (with a built-in LNA), goes to the GPS module for processing, and then enters U302 via the UART port. Meanwhile, U302 sends control command to the GPS module and forwards processed GPS data to the LCD display.

6. Troubleshooting Flow Chart

6.1 Control Circuit



Description of normal situations:

[1] The screen is not blurred upon power-on.

[2] The FFC connects correctly.

[3] The frequency of signal from X302 is 19.2 MHz.

[4] The output voltage of U905 and U909 is 5 V and 3.3 V respectively.

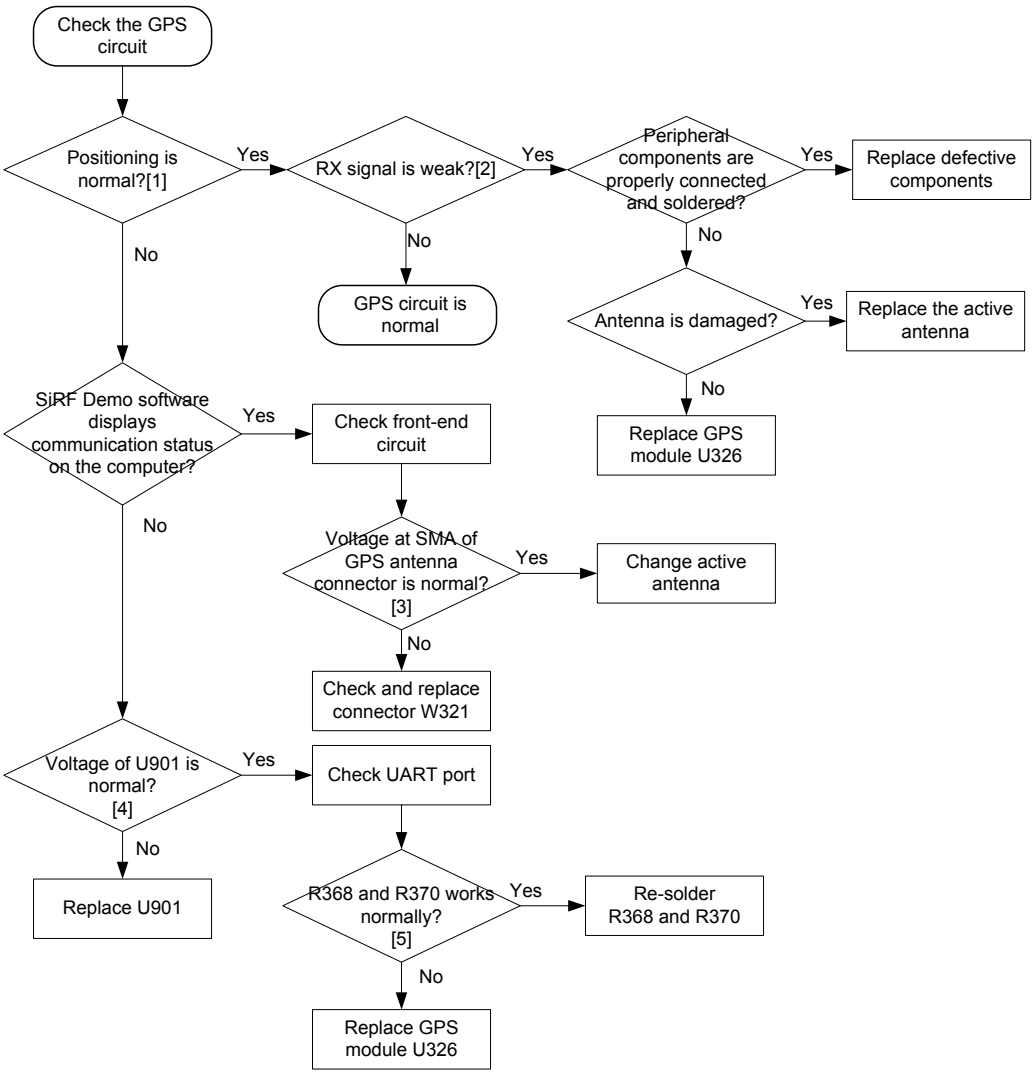
[5] The output voltage of U902 is 5 V.

[6] The output voltage of U900 and U901 is 3.3 V.

[7] The output voltage of U903 is 1.8 V.

[8] The output voltage of U919 is 1.6 V.

6.2 GPS Circuit



Description of normal situations:

[1] The satellite signal is received properly.

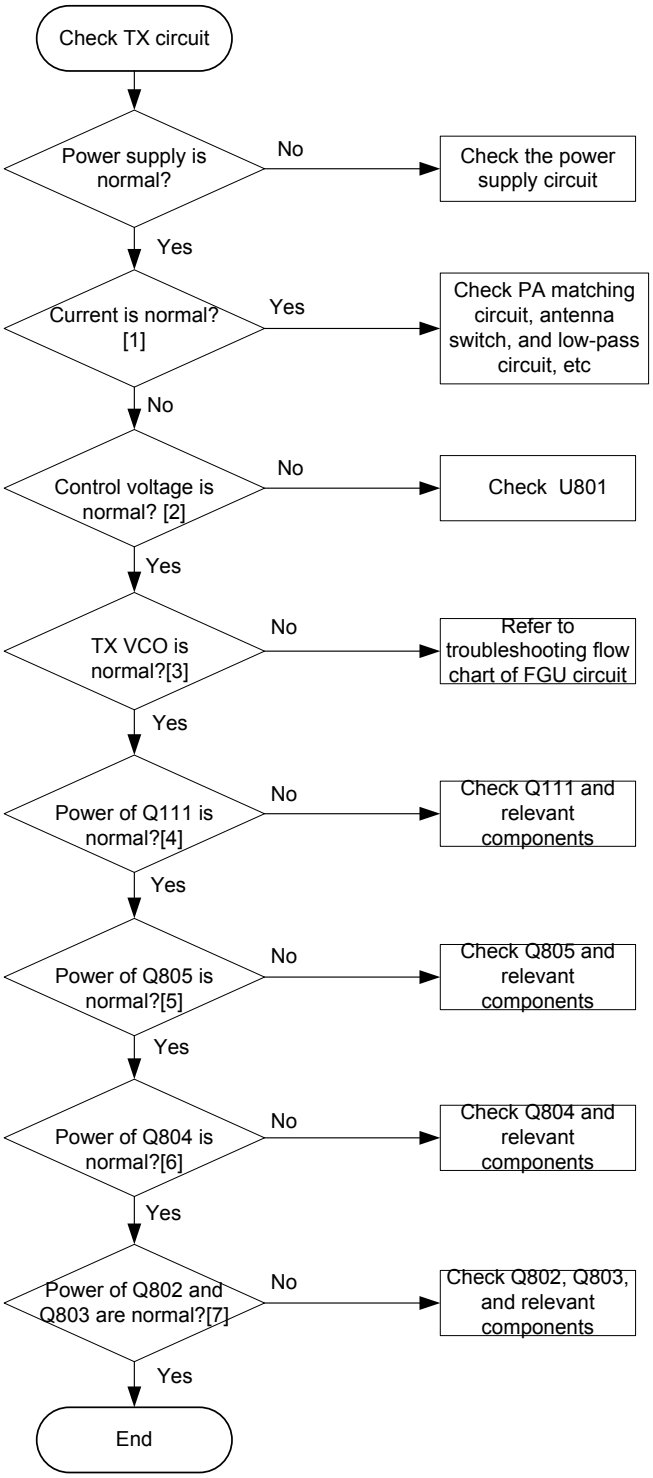
[2] The sensitivity is less than -130 dBm.

[3] Voltage at SMA of GPS antenna connector ranges from 3.2 to 3.35 V.

[4] The output voltage of U901 is 3.3 V.

[5] R368 and R370 have no soldering defects.

6.3 TX Circuit



Description of normal situations:

[1] In analog mode, the current is above 7 A under 30 W or 35 W and above 2 A under 10 W. However, in digital mode, the current will be reduced by 50%.

[2] The voltage at TP811 is above 2 V.

[3] The output amplitude of the TX LO signal at TP803 is about 10 dBm. Make sure that the back-end circuit is disconnected during test.

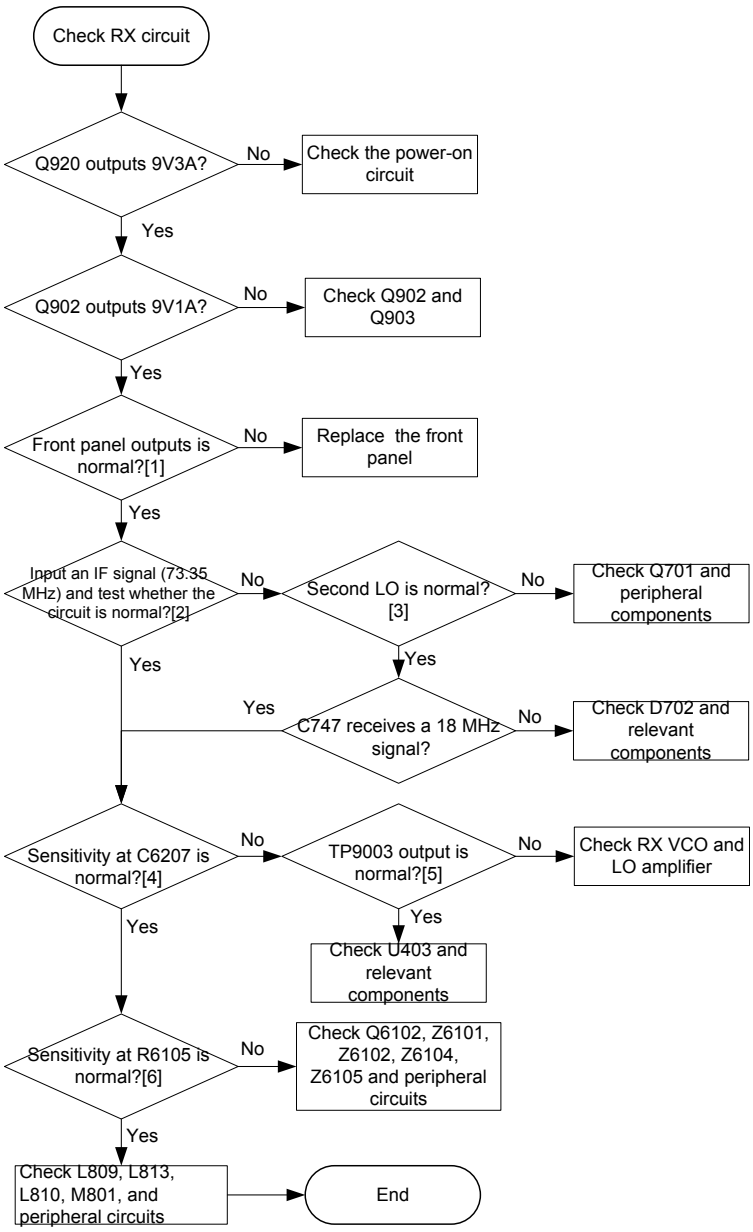
[4] The gain is 16 dB and the input signal is 0 dBm at Q111.

[5] The gain is 15 dB and the input signal is 0 dBm at Q805.

[6] The gain is 11 dB and the input signal is 0 dBm at Q804.

[7] The gain is 10 dB and the input signal is 0 dBm at Q802 and Q803.

6.4 RX Circuit



Description of normal situations:

[1] During sensitivity test, use a communication test set to demodulate the audio signal at TP4012 and TP4016. If the signal is demodulated normally, it is concluded that the front panel is defective.

[2] Use the communication test set to apply a 73.35 MHz IF signal at the mixer, and sensitivity is about -110 dBm.

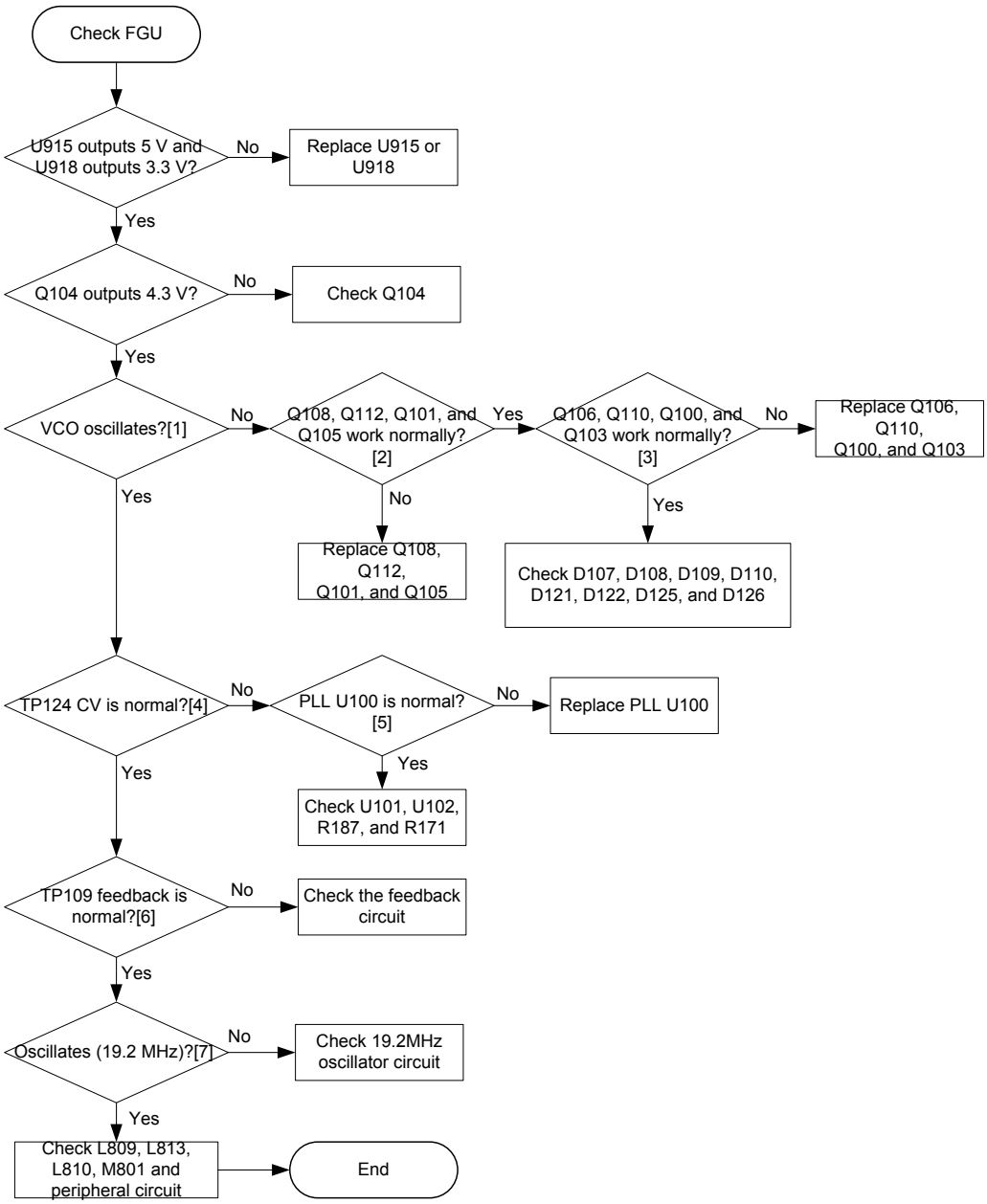
[3] There is a second LO signal (71.1MHz) at TP704.

[4] The sensitivity at C6207 is about -110 dBm.

[5] The received LO signal at TP9003 is about 18 dBm. Make sure that the LO amplification circuit is disconnected from the mixer during test.

[6] The sensitivity at R6105 is about -120 dBm.

6.5 Frequency Generation Unit (FGU)



Description of normal situations:

[1] The oscillation frequency of C45 and C47 can be detected.

[2] Q101, Q105, Q108, and Q112 are turned on and output about 3.6 V.

[3] The emitter voltage of Q106, Q110, Q100 and Q103 is about 1.8 V.

[4] The CV of TP124 ranges from 0.5 V to 4.5 V.

[5] PLL U100 is supplied by 5 V and 3.3 V normally.

[6] The power of the signal from TP109 to PLL is about -15 dBm.

[7] TP110 outputs 19.2 MHz signal.

7. Interface Definition

7.1 10-Pin Connector

The 10-pin connector on the front panel is used for audio accessories or data cable connection. The definition of each pin is described as below.

Pin No.	Name	Type	Signal Electrical Performance	Description
1	Accessory identification interface 1	Digital input	3.3V CMOS	Pin 1 and Pin 10 (accessory identifier interface 2) compose an accessory identification matrix. Please refer to the "10-pin Accessory Identification Matrix Table" below for detailed function definitions.
2	PTT input	Digital input	3.3V CMOS	PTT input for the palm microphone, which is valid at low level.
3	External audio output	Analog output	Load impedance>1 kΩ Vrms=600 mV±10%@1 kHz 60% system max. deviation	Accessory audio output. When "Mic Audio Output" is selected via CPS, this pin will output the received audio signal.
4	USB_D-	USB data cable-	USB data	When this pin is used for USB function, USB function of DB26 will be disabled.
5	GND	Ground cable	/	/
6	USB_VBUS	USB power supply	Power supply: 5 V; current limiting: 500 mA	This pin provides power supply to the USB accessory. It outputs a 5 V voltage when accessory identification code is 00|01|10, and outputs low

Pin No.	Name	Type	Signal Electrical Performance	Description
				level when the code is 11.
7	Mic input	Analog input	Modulation sensitivity Vrms=80 mV±10%@1 kHz 60% system max. deviation	Mic input for palm microphone
8	USB_D+	USB data cable+	USB data	When this pin is used for USB function, USB function of DB26 will be disabled.
9	HOOK	Digital input	3.3V CMOS	High level by default; valid at low level. HOOK and MONITOR functions: Press this key, the level changes from high to low. When palm microphone is detected or press the key of the palm microphone, this pin is used for HOOK function; when desktop microphone is detected, this pin is used for MONITOR function.
10	Accessory identification interface 2	Digital input	3.3V CMOS	Pin 1 and Pin 10 (accessory identifier interface 1) compose an accessory identification matrix. Please refer to the "10-pin Accessory Identification Matrix Table" below for detailed function definitions.

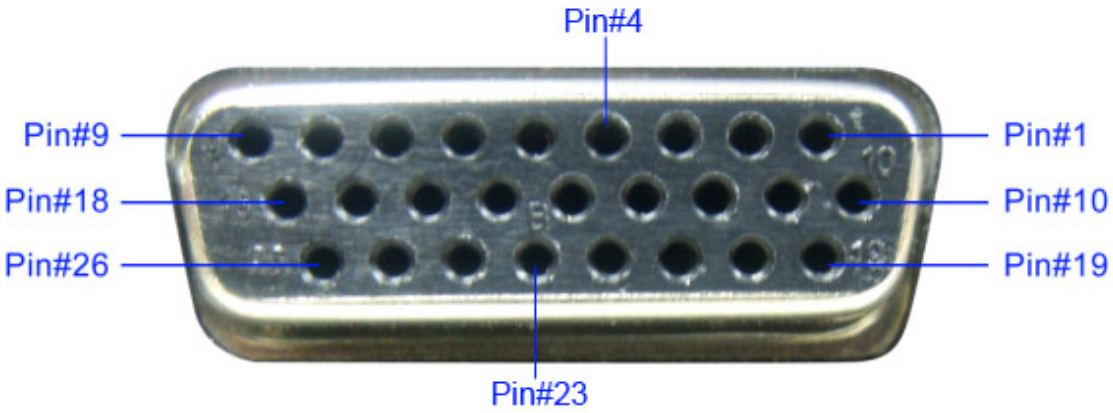
10-pin Accessory Identification Matrix Table (composed of Pin 1 and Pin 10):

Pin 1	Pin 10	Radio Status
Low level	Low level	Reserved

Pin 1	Pin 10	Radio Status
Low level	High level	The mobile radio is in USB master mode or connected to a USB smart accessory (such as palm microphone with keypad).
High level	Low level	The mobile radio is connected to an external speaker (including desktop microphone with earpiece).
High level	High level	The mobile radio is in USB slave mode, or it is not connected to any accessory, or it is connected to a palm microphone without keypad.

7.2 DB26 Accessory Interface

DB26 accessory interface, namely the 26-pin further development interface on the rear panel, is mainly used for accessory connection of mobile radio, or compatibility with other interfaces. Users can further develop the radio via this interface. The figure and definition of each pin is as follows.



Pin No.	Name	Type	Signal Electrical Performance	Description
1	Vbus USB power supply	Power output	Power supply: +5V; current limiting: 500 mA	Pin 1 and Pin 10 (accessory identification interface 2) compose an accessory identification matrix. This pin outputs a 5 V voltage when accessory identification code is 00|01|10, and outputs low level when the code is 11.
2	Ground	Power supply (grounding)	/	/

Pin No.	Name	Type	Signal Electrical Performance	Description
3	GP5_3 (Chan_Act)	GPIO	5V TTL	GPIO. Programmable via CPS.
4	SWB+	Power output	Power supply :13.2V±15%; output current ≤1 A	Power output: 13.2 V; output current: ≤1 A
5	External Alarm	Analog voltage output	13 V alarm output	Programmable output pin (“External Horn & Lights” feature by default, programmable via CPS).
6	Power Ground	Power supply (grounding)	/	/
7	TX Audio	Analog signal input	Vrms=80 mV±10%@1 kHz 60% system max. deviation	This pin is used for signal input of external MIC. The audio path is valid when the external Mic PTT is held down.
8	RX Audio	Analog signal output	Load impedance>1 kΩ Vrms=300 mV±10%@1 kHz 60% system max. deviation	Default output is 300 mV. The output signal amplitude can be changed by modifying the “Analog RX Gain” value via CPS.
9	SPK-	Analog output	It forms differential output together with SPK+. Max power output: 10 W(R=8 Ω)	External speaker output-
10	D+	USB data cable+	USB data	USB data cable+
11	USB_GROUND	Ground cable	/	/
12	GP5_2 (Monitor)	GPIO	5V TTL	GPIO. Programmable via CPS; Monitor feature by default.
13	ACC_IO2	Digital input	5V TTL	Accessory identification

Pin No.	Name	Type	Signal Electrical Performance	Description
				interface; high level by default. This pin and Pin 15 (ACC_IO3) can compose three accessory identification statuses. Please refer to the "DB26 Accessory Identification Matrix Table" below for detailed function definitions.
14	Emerg Sw	Digital input	5V TTL	Emergency switch. This pin is valid when low level is input.
15	ACC_IO3	Digital input	5V TTL	Accessory identification interface; high level by default. This pin and Pin 13 (ACC_IO2) can compose three accessory identification statuses. Please refer to the "DB26 Accessory Identification Matrix Table"" below for detailed function definitions.
16	PRGM_IN_PTT	Digital input	5V TTL	Programmable input pin (**PTT** key of external Mic by default; its function is programmable via CPS). It is valid at low level.
17	Audio Ground	Audio (grounding)	/	/
18	SPK+	Analog signal output	It forms differential output together with SPK-. Max power output: 10 W(R=8 Ω)	External speaker output+
19	D-	USB data cable-	USB data	USB data cable-
20	GP5_8	Digital	5V TTL	GPIO. Programmable via CPS.

Pin No.	Name	Type	Signal Electrical Performance	Description
		input/output		
21	Ground	Ground cable	/	/
22	GP5_7	Digital input/output	5V TTL	GPIO. Programmable via CPS.
23	GP5_6	Digital input/output	5V TTL	GPIO. Programmable via CPS.
24	AUX Audio Out 1	Analog output	Load impedance >1 kΩ Vrms=300 mV±10%	Auxiliary audio (external speaker) output 1
25	AUX Audio Out 2	Analog output	Load impedance >1 kΩ Vrms=300 mV±10%	Auxiliary audio (external speaker) output 2
26	Ignition Sense Detect Pin	Analog voltage input	Ignition voltage input>7V	Input pin for ignition voltage

Note

When a pin is marked with 5 V TTL level, this pin has the pull-up function. If the pin needs to be set to high level, empty this pin.

DB26 Accessory Identification Matrix Table (composed of Pin 13 and Pin 15):

Pin 13	Pin 15	Radio Status
High level	High level	Default status. The mobile radio is in USB slave mode or not connected to any accessory.
High level	Low level	The mobile radio is in USB master mode or connected to a USB smart accessory (such as palm microphone with keypad).
Low level	High level	The mobile radio is connected to an external speaker (including desktop microphone with earpiece).
Low level	Low level	Reserved

7.3 Other Interfaces

J2 (LCD Display Interface)

Pin No.	Name	Description
1	GND	Grounding pin
2	VCI	2.5 – 3.3 V adjustable port
3	VCI	2.5 – 3.3 V adjustable port
4	IOVCC	1.65 – 3.3 V adjustable I/O port
5	FLM	Synchronization signal control port
6	CS	Chip select signal
7	RS	Register select
8	WR	Write signal
9	RD	Read signal
10	DB0	Data bus
11	DB1	
12	DB2	
13	DB3	
14	DB4	
15	DB5	
16	DB6	
17	DB7	
18	DB8	
19	DB9	
20	DB10	
21	DB11	
22	DB12	
23	DB13	

Pin No.	Name	Description
24	DB14	
25	DB15	
26	DB16	
27	DB17	
28	RESET	Reset signal
29	IM3	Select data cable
30	IM0	
31	LEDA	LED anode
32	LED_K1	LED cathode
33	LED_K2	
34	LED_K3	

J4 (Aviation Interface of Front Panel)

Pin No.	Name	Description
1	ACC_IO1	Digital input
2	PTT_IN	Digital input
3	External_Audio	Analog output
4	USB_D-	USB data cable
5	GND	Ground cable
6	USB_VBUS	Power supply
7	MIC_IN	Analog input
8	USB_D+	USB data cable
9	HOOK	Hook signal input
10	ACC_IO2	Digital input

J400 (Option Board Interface)

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remark

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remark
1	GPIO1	GPIO	I/O	VIH MIN=0.7VDD VIL MAX=0.3VDD VOH MIN=0.8VDD VOL MAX=0.22VDD	GPIO5: output signal of resetting the option board. GPIO4/GPIO5: Unidirectional output interfaces. They require their input resistances are greater than or equal to 47 kΩ.
3	GPIO2				
5	GPIO3				
7	GPIO4		O		
9	GPIO5	RESET-OUT	O		
11	UART-TX	UART	O		UART
13	UART-RX		I		
15	UART-CTS		I		
17	UART-RTS		O		
2	I2C –SDA	I2C	I/O		I2C
4	I2C -SCL		O		
6	MCBSP-DR	MCBSP	I		McBSP: Multi-channel buffered serial port
8	MCBSP-WCLK		I/O		
10	MCBSP-DX		O		
12	MCBSP-FSX		I/O		
14	AGND	AGND	/	/	/
16	AF OB TO MB	AF	I	80 mV (standard output from the	MAX: 700mV

Pin No.	Signal	Function	I/O of the Radio	Voltage (Option Board VDD=3.3 V)	Remark
				option board to the main board)	
18	AF MB TO OB	AF	O	80 mV (standard output from the main board to the option board)	MAX: 700mV
19	DGND	DGND	/	/	/
20	3V6 or 5V	Power	O	Voltage: 5.0 V	/

J403 (Pin Interface)

Pin No.	Name	Description
1	Vbus USB	Power supply: +5 V
2	Ground	Ground cable
3	GP5_3	Digital input/output
4	SW B+ sense	Power supply
5	External Alarm	Analog voltage output
6	Power Ground	Power supply (grounding)
7	Tx Audio	Analog input
8	RX Audio	Analog output
9	Spkr-	Analog output
10	D+ USB	USB data cable+
11	USB_GROUDN	Ground cable
12	GP5_2	Digital input/output
13	ACC_IO2	Digital input
14	Emerg Sw	Digital input
15	ACC_IO3	Digital input

Pin No.	Name	Description
16	PRGM_IN_PTT	Digital input
17	Audio Ground	Audio ground
18	Spkr+	Analog output
19	D- USB	USB data cable-
20	GP5_8	Input/output
21	Ground	Ground cable
22	GP5_7	Input/output
23	GP5_6	Digital input/output
24	AUX Audio Out 1	Analog output
25	AUX Audio Out 2	Analog output
26	Ign Sense	Analog voltage input

J404 (Front Panel Interface)

Pin No.	Name	Description
1	INT_MIC	Audio input
2	MIC_GROUND	Audio input (grounding)
3	ACC_IO1	Accessory identification interface 1
4	USB_VBUS	USB power supply
5	HOOK	HOOK
6	PTT	PTT
7	USB_D-	USB data cable D-
8	USB_D+	USB data cable D+
9	ACC_IO2	Accessory identification interface 2
10	UART2_RXD_A	Volume control port
11	UART2_TXD_B	/

Pin No.	Name	Description
12	EXTERNAL_AUDIO	Audio signal output by accessory (mobile radio)
13	SPKR1+	Speaker audio signal cable+
14	SPKR1-	Speaker audio signal cable-
15	5VD	Power supply
16	PRST	Reset signal
17	KB_C0	Matrix keyboard
18	KB_C1	
19	KB_C2	
20	KB_C3	
21	KB_R0	
22	KB_R1	
23	KB_R2	
24	CSLED	Backlight control IC chip select
25	CLOCK	Backlight control IC clock
26	DATA	Backlight control IC data
27	OE_LCD	LCD read enable
28	WE_LCD	LCD write enable
29	CS2_LCD	LCD chip select
30	F_A1_LCD	LCD register select enable
31	F_D7	LCD data bus
32	F_D6	
33	F_D5	
34	F_D4	
35	F_D3	
36	F_D2	

Pin No.	Name	Description
37	F_D1	LCD data bus
38	F_D0	
39	GND	Grounding
40	PWB_IN	Power On/Off signal

8. Tuning Description

8.1 Required Test Instruments

- Radio communication test sets: HP8921 and Aeroflex 3920
- Power supply: 15 A/30 V
- Multimeter
- Tuner software

8.2 Tuning Procedures

8.2.1 Tuning the Radio

After re-assembling the radio, you need to tune it with the Tuner software and HP8921.

The specific operations are described in the table below. After tuning the items of the current channel, you must switch the radio to the next channel; otherwise, the adjustments will not be saved to the radio properly.

Items	Method
TX Section	
Reference Oscillator Warp	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Reference Oscillator Warp” in the left navigation tree. Then click the “Transmit On” button. 3. Adjust the vernier on the Tuner until the frequency offset between the frequency displayed on HP8921 and the frequency (Tx) displayed on Tuner is less than or equals to ±40 Hz. 4. Click the “Save” button on Tuner to save the existing value to the radio. 5. Click the “Transmit Off” button on Tuner.
Transmit Power Calibration	Here takes the tuning of low TX power for example. 1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit Power Calibration” in the left navigation tree. Then select an appropriate

Items	Method
	channel. 3. Click the “Transmit On” button on Tuner. 4. Adjust the power to the required level as follows: Low power: 10 W 806 MHz – 825 MHz/851 MHz – 870 MHz: 35 W 896 MHz – 902 MHz/935 MHz – 941 MHz: 30 W 5. Click the “Save” button on Tuner to save the existing value to the radio.
Transmit-to-Deviation	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Set the parameters on the HP8921 as follows: IF Filter: 230 kHz Filter1: <20 Hz HPF Filter2: <15 kHz LPF De-Emphasis: off 3. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit-to-Deviation” in the left navigation tree. Then click the “Transmit On” button. Then set the modulation signal of HP8921 to “100 Hz”. 4. Adjust the vernier on Tuner until the frequency deviation displayed on HP8921 is “5 kHz”. 5. Click the “Save” button on Tuner to save the existing value to the radio. 6. Click the “Transmit Off” button on Tuner.
Modulation Balance	Here takes the low frequency deviation for example. 1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Set the parameters on the HP8921 as follows: IF Filter: 230 kHz Filter1: <20 Hz HPF Filter2: <15 kHz LPF De-Emphasis: off 3. Open the Tuner software and go to “TUNE_DATA -> TX -> Modulation

Items	Method
	Balance" in the left navigation tree. Then select an appropriate channel. 4. Click the "Transmit On" button on Tuner. Then set the modulation signal of HP8921 to "100 Hz". 5. Adjust the value in the dialog box on Tuner until the frequency deviation displayed on HP8921 is "5 kHz". 6. Press the **Enter** key on the keyboard to confirm your settings. 7. Click the "Save" button on Tuner to save the existing value to the radio. 8. Click the "Transmit Off" button on Tuner.
Transmit Oscillator Voltage	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to "TUNE_DATA -> TX -> Transmit Oscillator Voltage" in the left navigation tree. 3. Click the "Save" button to save the existing value to the radio.
RX Section	
Front-end Filter	1. Connect the radio to HP8921 via the antenna connector. 2. Connect the Audio Out port of the radio to the Audio In port of HP8921, and set HP8921 to RX test mode. 3. Set the parameters on the HP8921 as follows: Output RF signal: -118 dBm/Frequency (current channel frequency) Modulation frequency: 1 kHz Modulation deviation: 3 kHz 4. Open the Tuner software and go to "TUNE_DATA -> RX -> Front-end Filter" in the left navigation tree. Adjust the vernier on Tuner until the "SINAD" value displayed on HP8921 is greater than 14 dB. 5. Set the output RF signal of HP8921 to -25 Bm/(current channel frequency -36.675 MHz). 6. Adjust the vernier on Tuner until the "SINAD" value displayed on HP8921 is less than 14 dB. 7. Press the **Enter** key on the keyboard to confirm your settings. 8. Click the "Save" button on Tuner to save the existing value to the radio.

Items	Method
Front-end Gain	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to RX test mode. 2. Set HP8921 to output an unmodulated RF signal with a value of "-70 dBm/Frequency (current channel frequency)". 3. Press the **Enter** key on the keyboard to confirm your settings. 4. Click the "Save" button on Tuner to save the existing value to the radio.
Receive Oscillator Voltage	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to RX test mode. 2. Open the Tuner software and go to "TUNE_DATA -> RX -> Receive Oscillator Voltage" in the left navigation tree. 3. Set HP8921 to output an unmodulated RF signal with a value of "-47 dBm/Frequency (current channel frequency)". 4. Click the "Save" button to save the existing value to the radio.

8.2.2 Testing the Radio

After tuning all the items of the radio, you need to test the digital RF signal of the mobile radio via Aeroflex 3920 (Digital Radio Test set).

Transmitting

Step 1 Connect the mobile radio to Aeroflex 3920 via the antenna connector.

Step 2 Open the Tuner software and go to "TEST -> TX -> Transmit BER (0.153)".

Step 3 Select the channel to be tested and select the corresponding power level (High Power or Low Power) in "Parameter" on Tuner.

Step 4 Click the "Transmit On" button on Tuner.

Step 5 Set the parameters on the Aeroflex 3920 as follows:

- Frq: Be consistent with the TX frequency of the channel to be tested.
- STD IB 511: .153

Step 6 Observe the "avg" value of "UUT TX Bit Err" parameter in "UUT Measurements" module of Aeroflex 3920, which is the average bit error rate of the tested channel during transmitting.

The radio is operating properly when the Aeroflex 3920 parameters are as follows:

- FSK Error: ≤5%
- Symbol Clock Err: ≤100 Hz

- Signal Power: 3.9 – 4.5W
- Magnitude Error: ≤1%
- UUT TX Bit Err = 0%

Step 7 Click the “Transmit Off” button on Tuner to finish testing.

Receiving

Step 1 Connect the antenna connector of the radio to the RF port of Aeroflex 3920, and set Aeroflex 3920 as follows (remain default values for other parameters):

- Frq: Be consistent with the frequency of the channel to be tested.
- STD IB 511: .153
- Lv1 (signal strength): -116 dBm (-110 dBm by default)

Step 2 Open the Tuner software and go to “TEST -> RX -> Receiver BER (0.153)”.

Step 3 Select the channel to be tested and click the “Start” button on Tuner.

Step 4 Observe the “Average Rate” displayed on Tuner.

You can set different “Average Num” (the calculation base of BER, which is “10” by default) to obtain different “Average Rate”.

Step 5 Modify the value of “Lv1” parameter of Aeroflex 3920, so as to obtain the average BERs of the tested channel under different signal strengths.

The mobile radio is operating properly when the average BER is less than 5%.

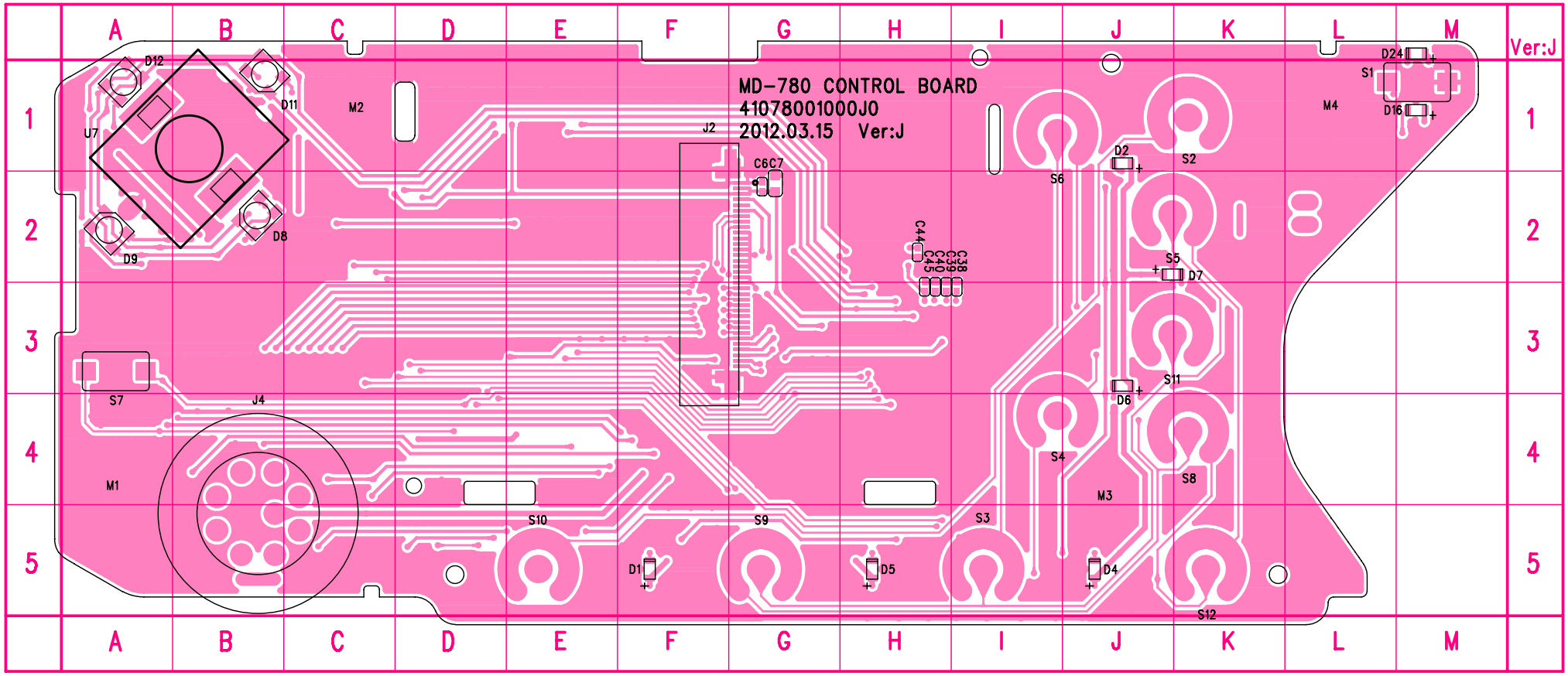
Note

When the parameter “Lv1” is set to “-110 dBm”, the mobile radio is operating properly when the average BER is less than 1%.

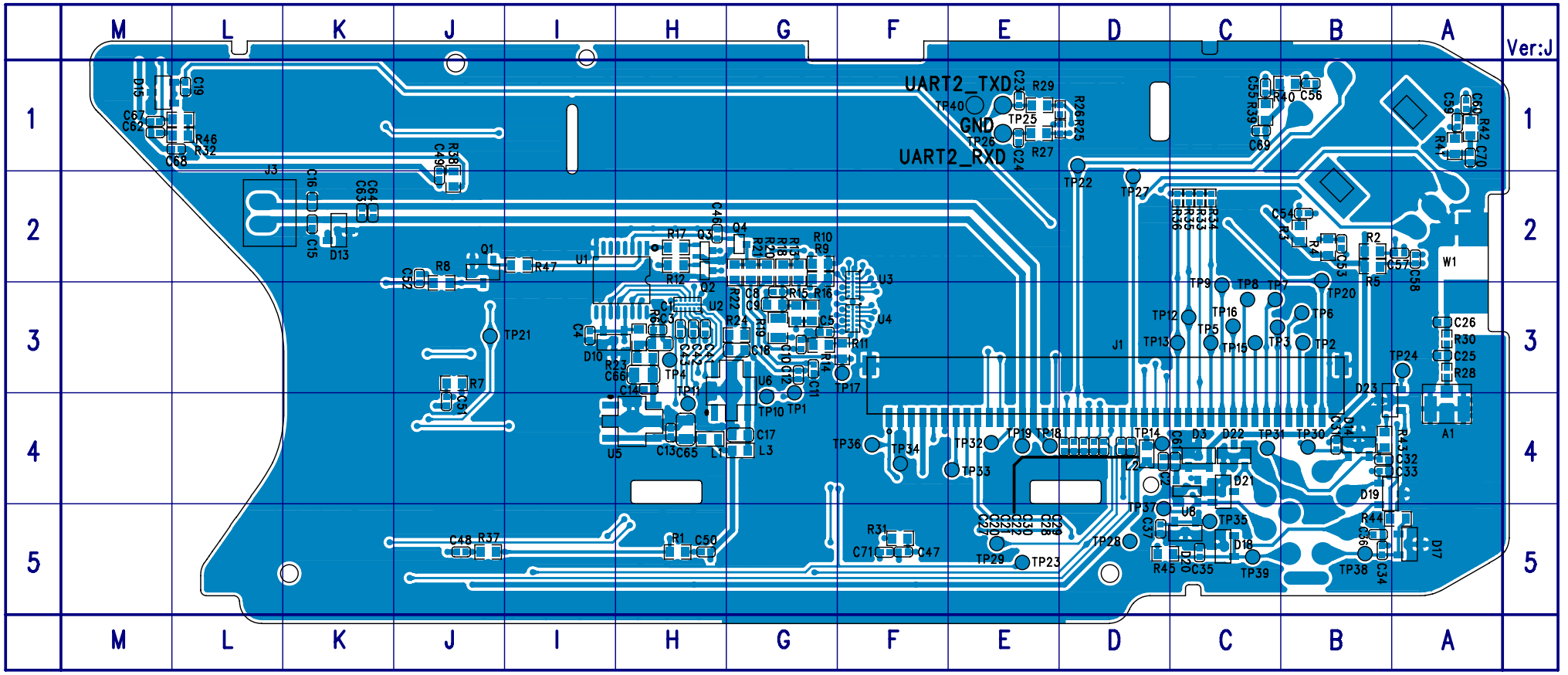
Step 6 Click the “Stop” button on Tuner to finish testing.

9. PCB View

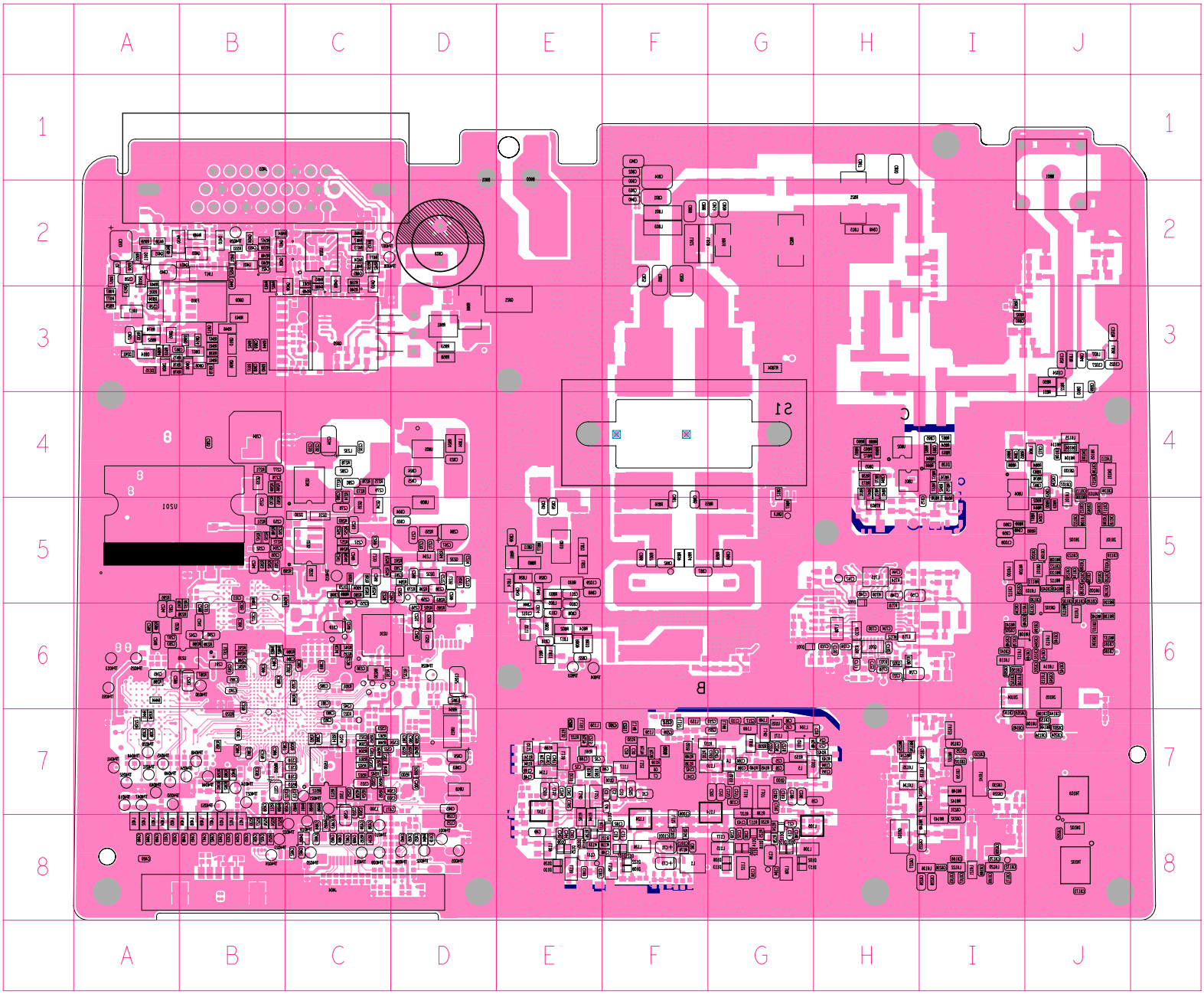
MD78X/MD78XG PCB View (Front Panel)
Top Layer



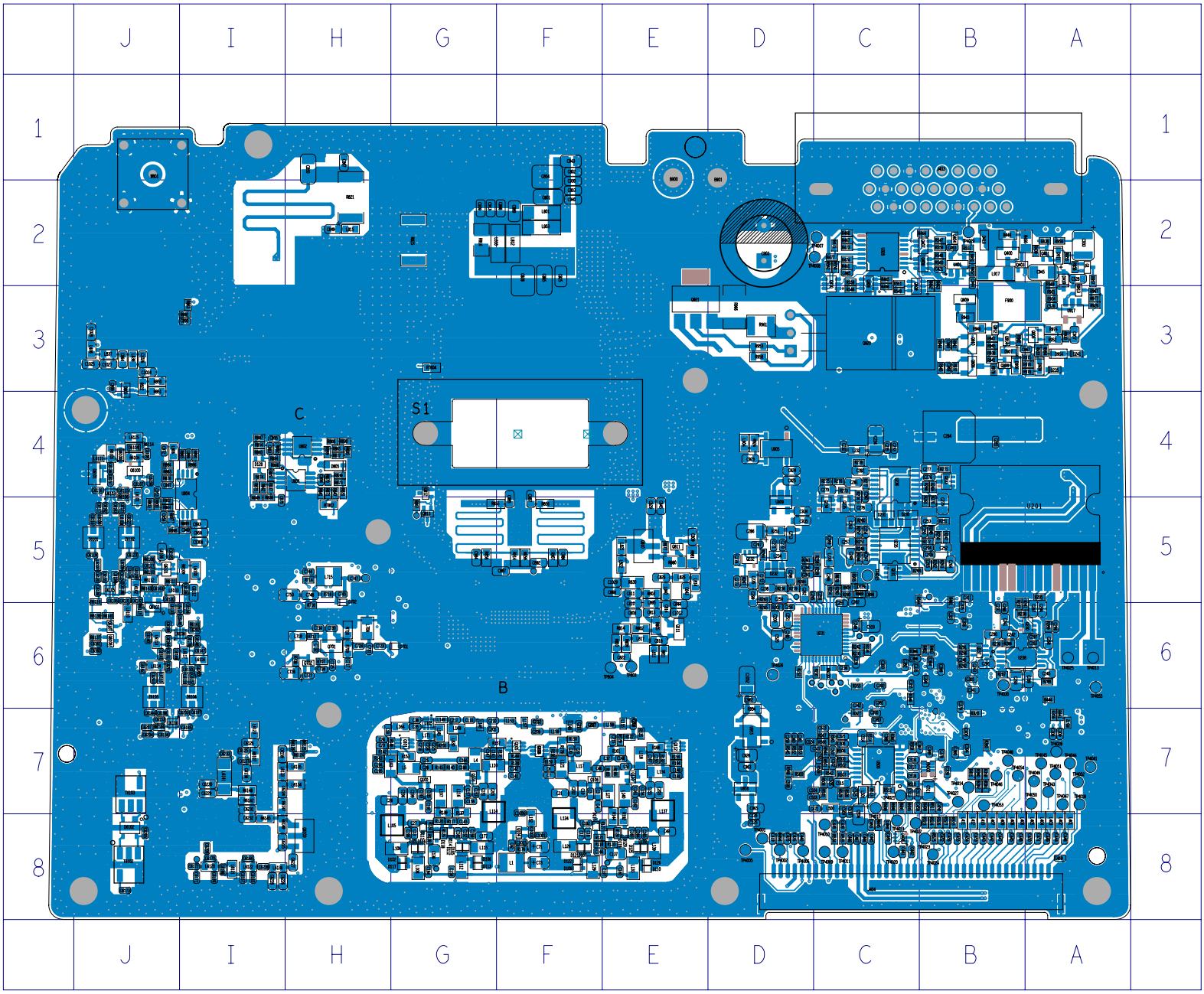
MD78X/MD78XG PCB View (Front Panel)
Bottom Layer



MD78X/MD78XG PCB View (Main Board)
Top Layer

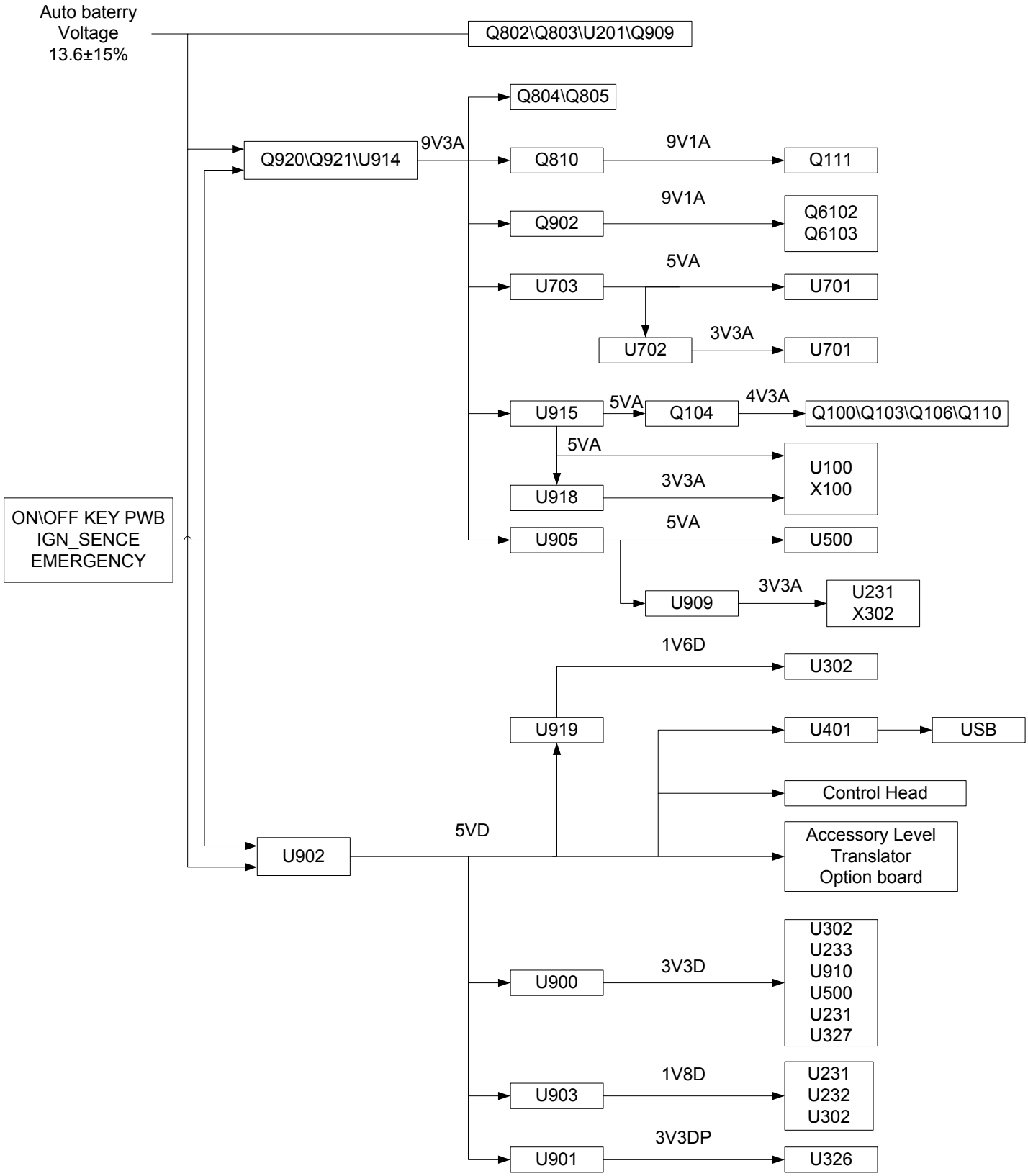


MD78X/MD78XG PCB View (Main Board)
Bottom Layer

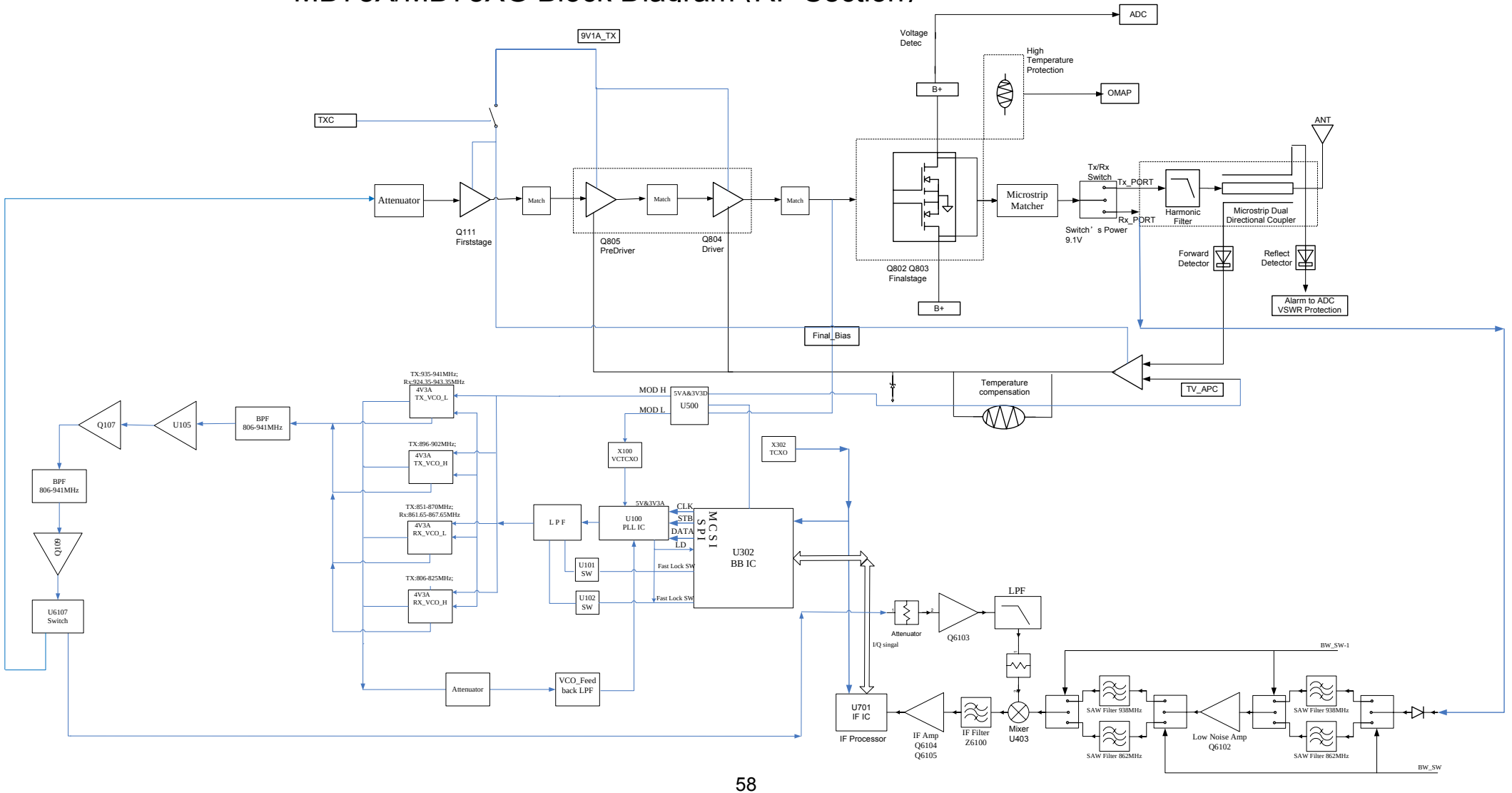


10. Block Diagram

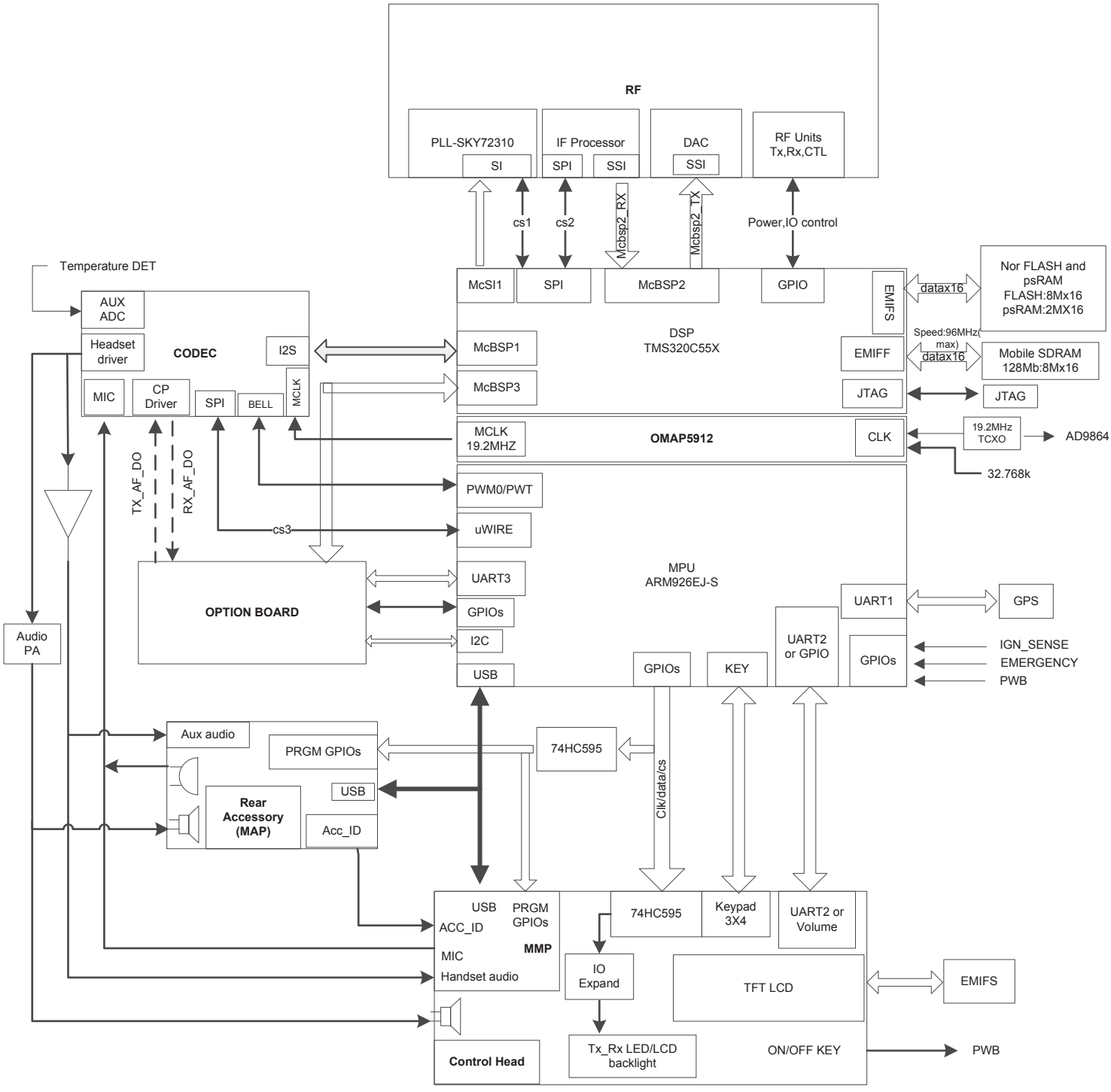
MD78X/MD78XG Block Diagram (Power Section)



MD78X/MD78XG Block Diagram (RF Section)

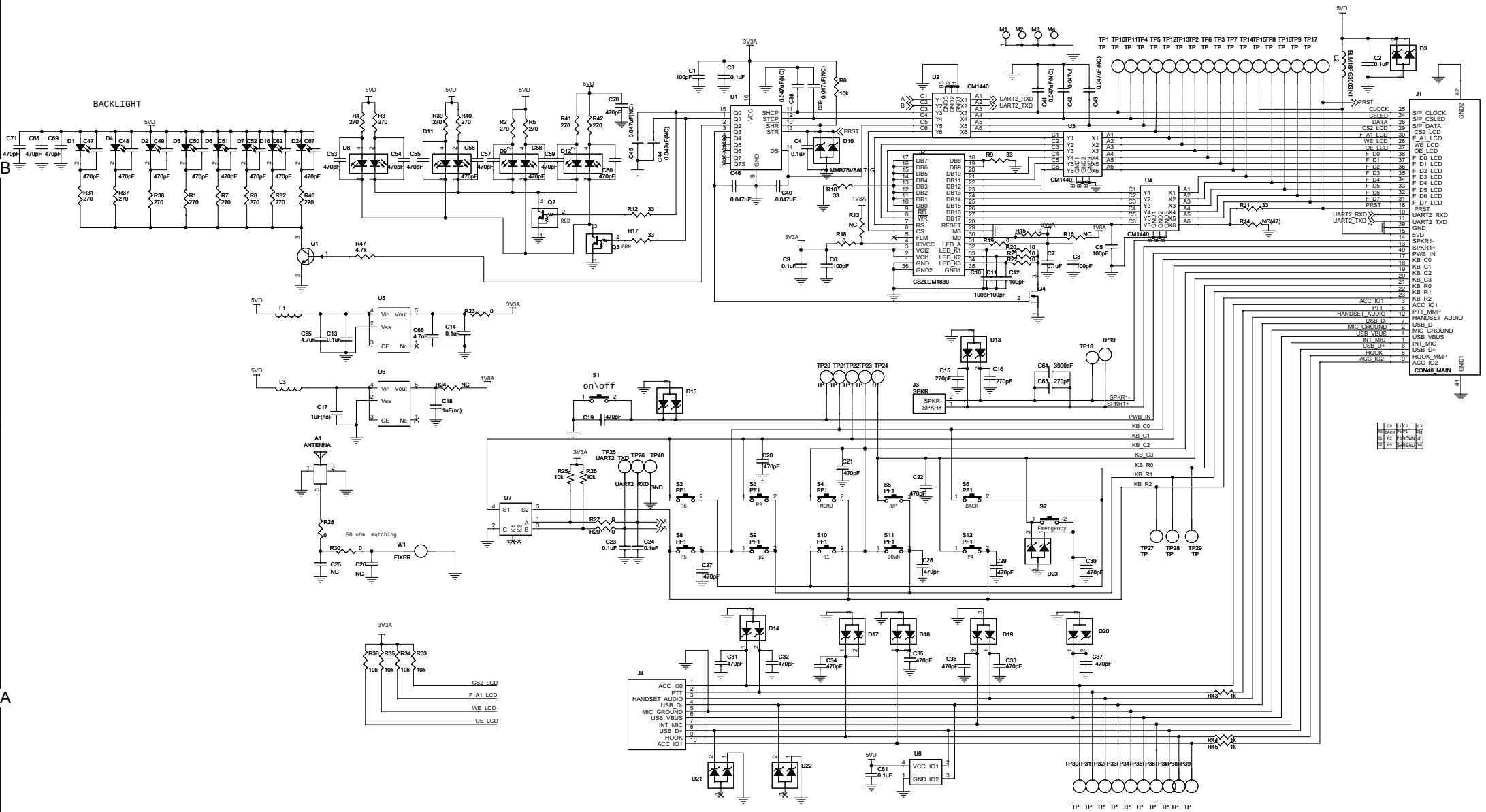


MD78X/MD78XG Block Diagram (Baseband Section)

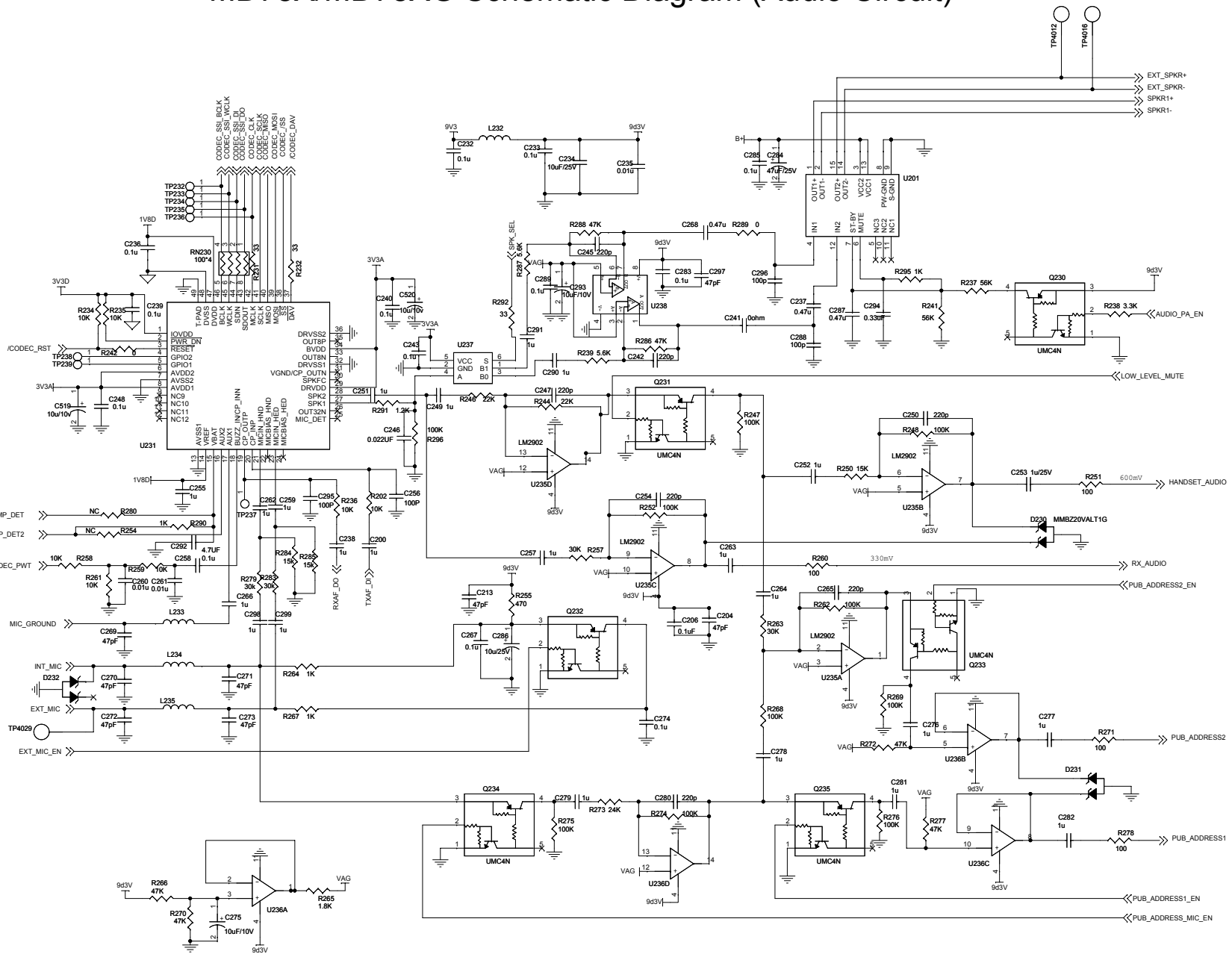


11. Schematic Diagram

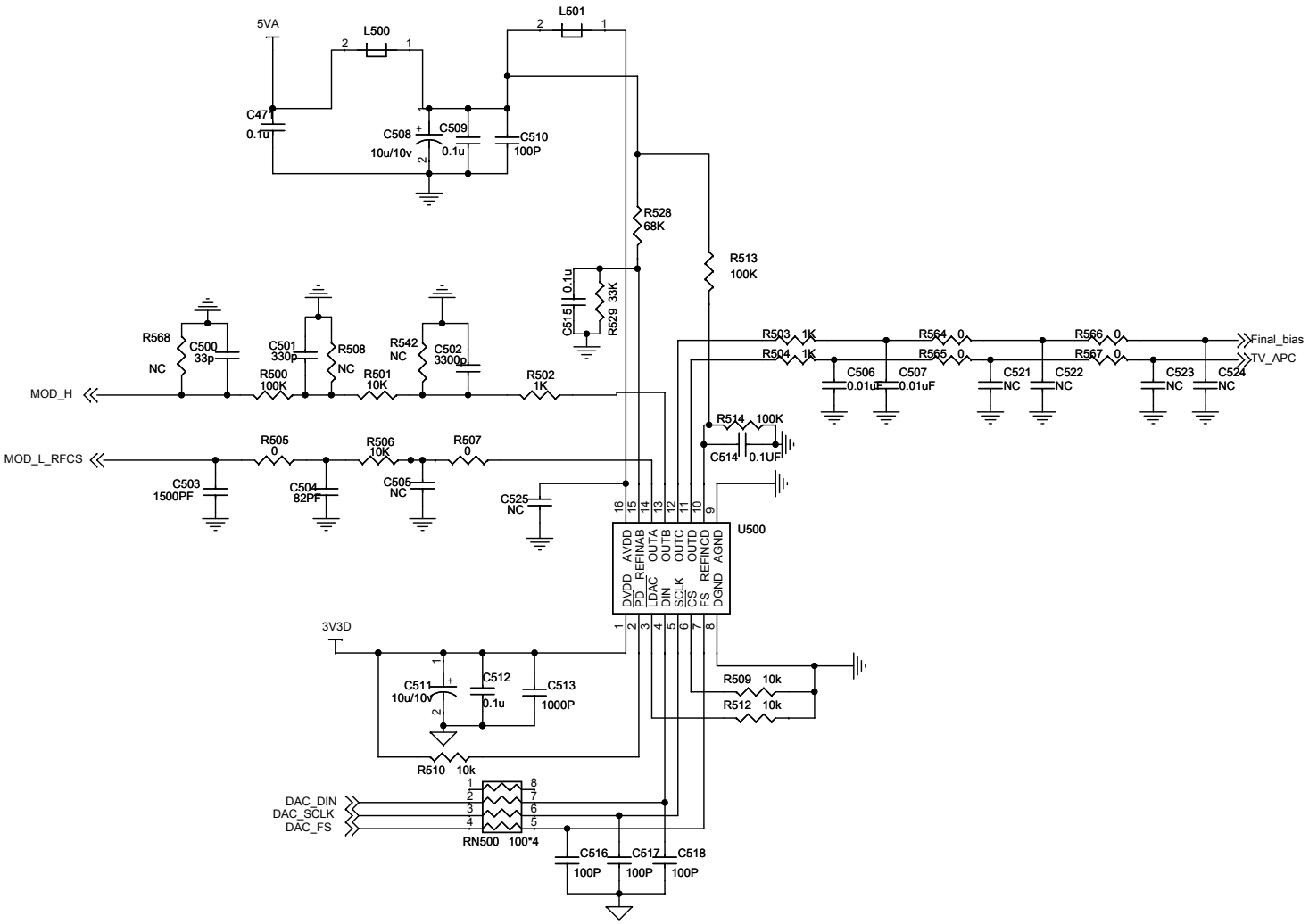
MD78X/MD78XG Schematic Diagram (Front Panel Circuit)



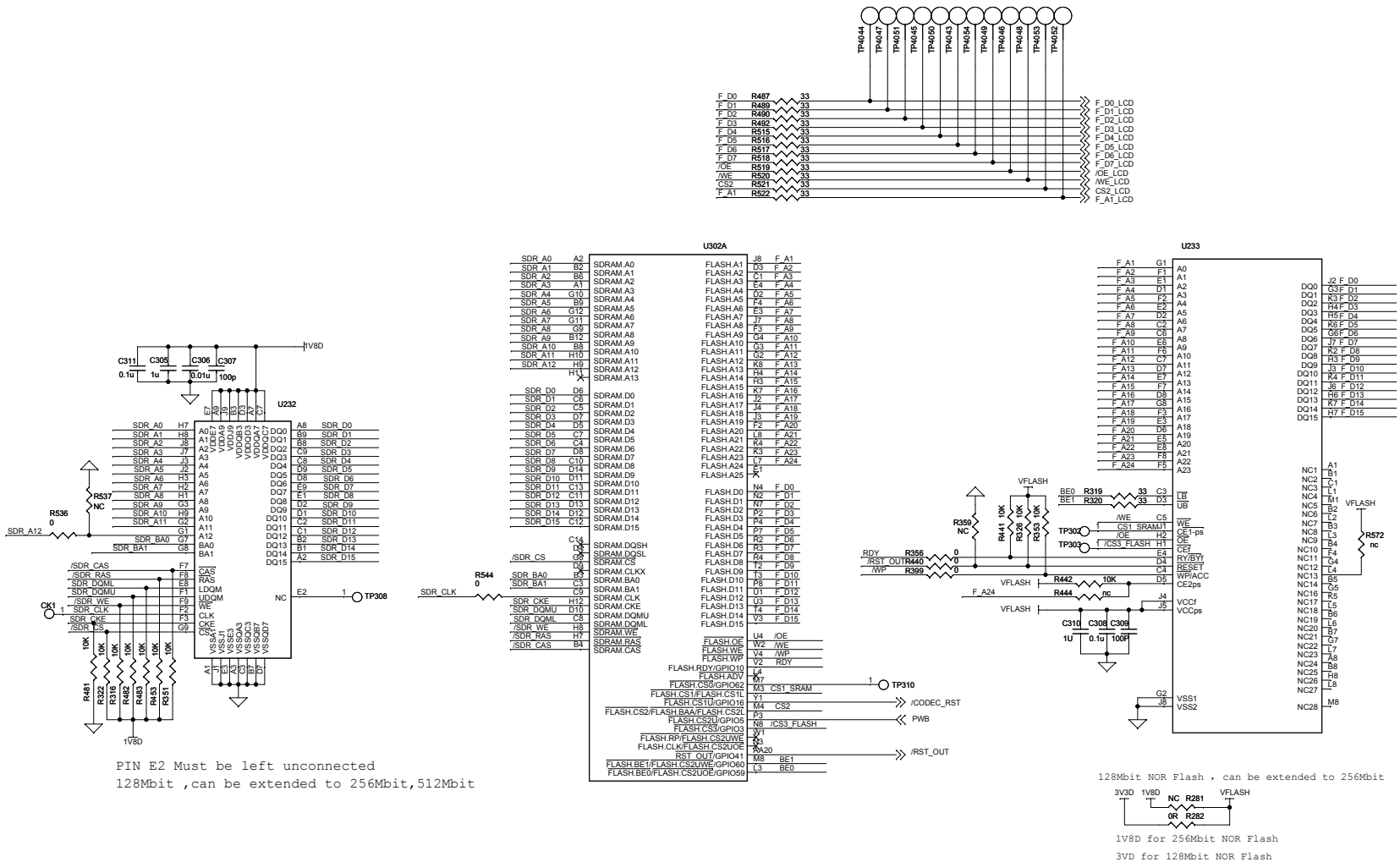
MD78X/MD78XG Schematic Diagram (Audio Circuit)



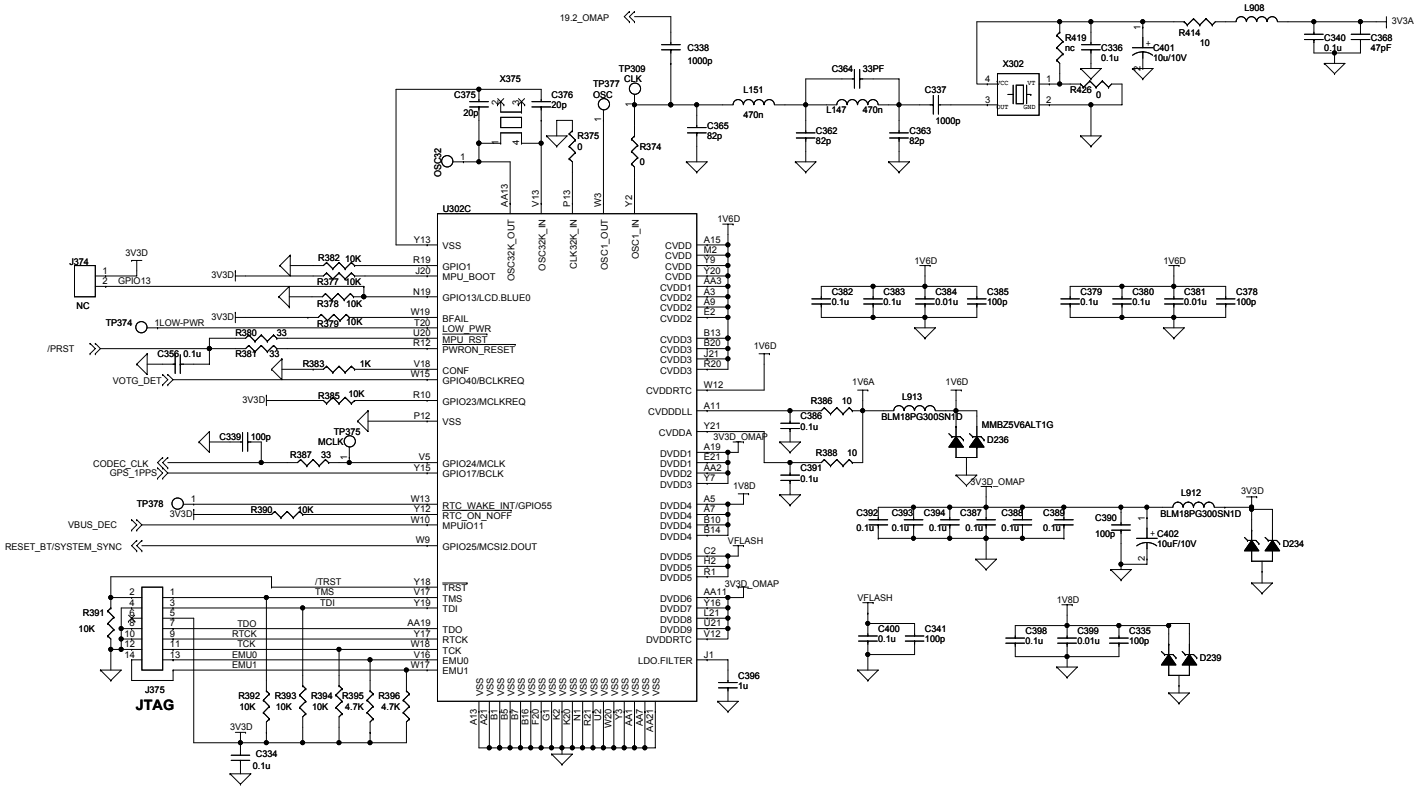
MD78X/MD78XG Schematic Diagram (DAC Circuit)



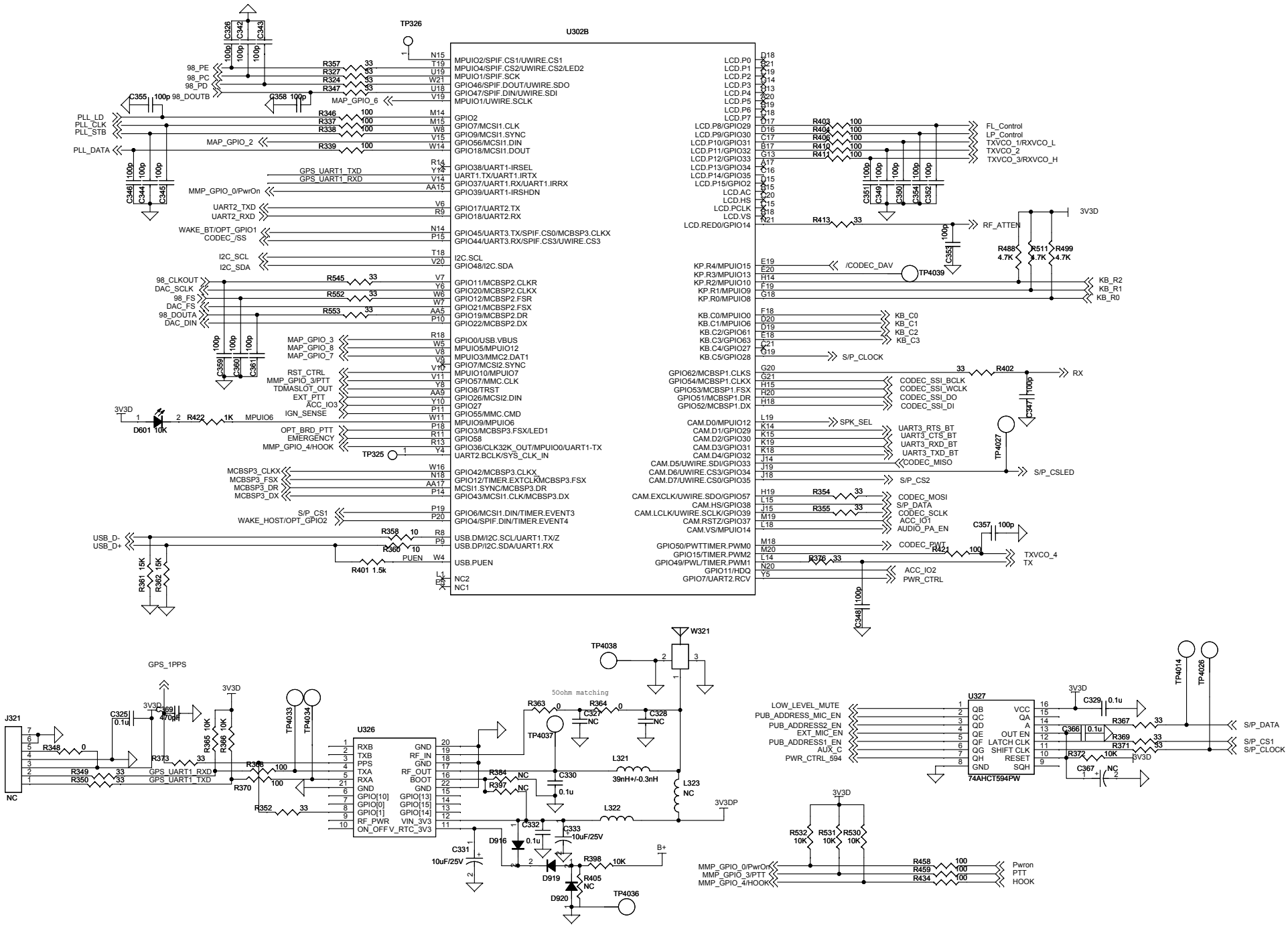
MD78X/MD78XG Schematic Diagram (Memory Circuit)



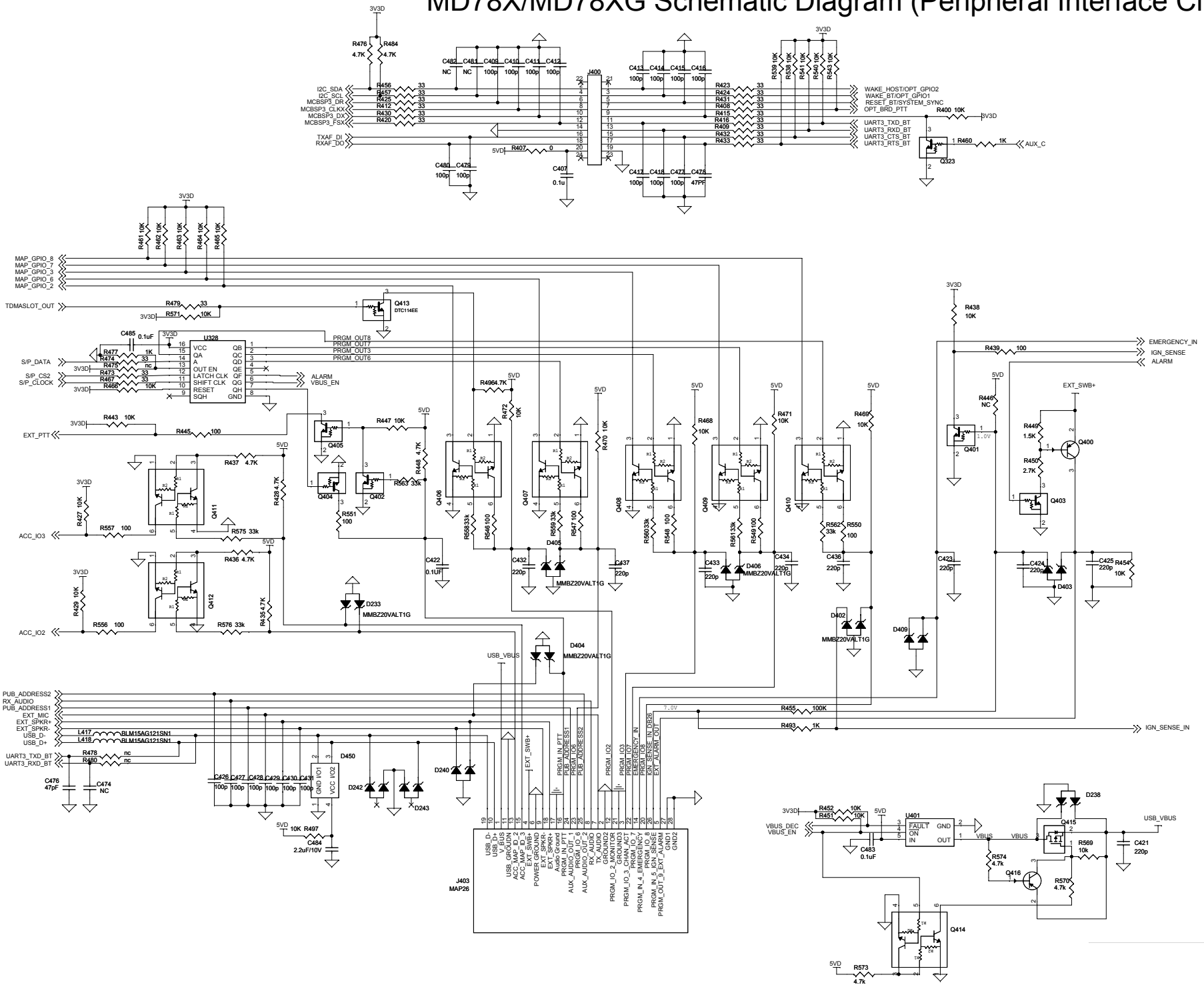
MD78X/MD78XG Schematic Diagram (OMAP Circuit)



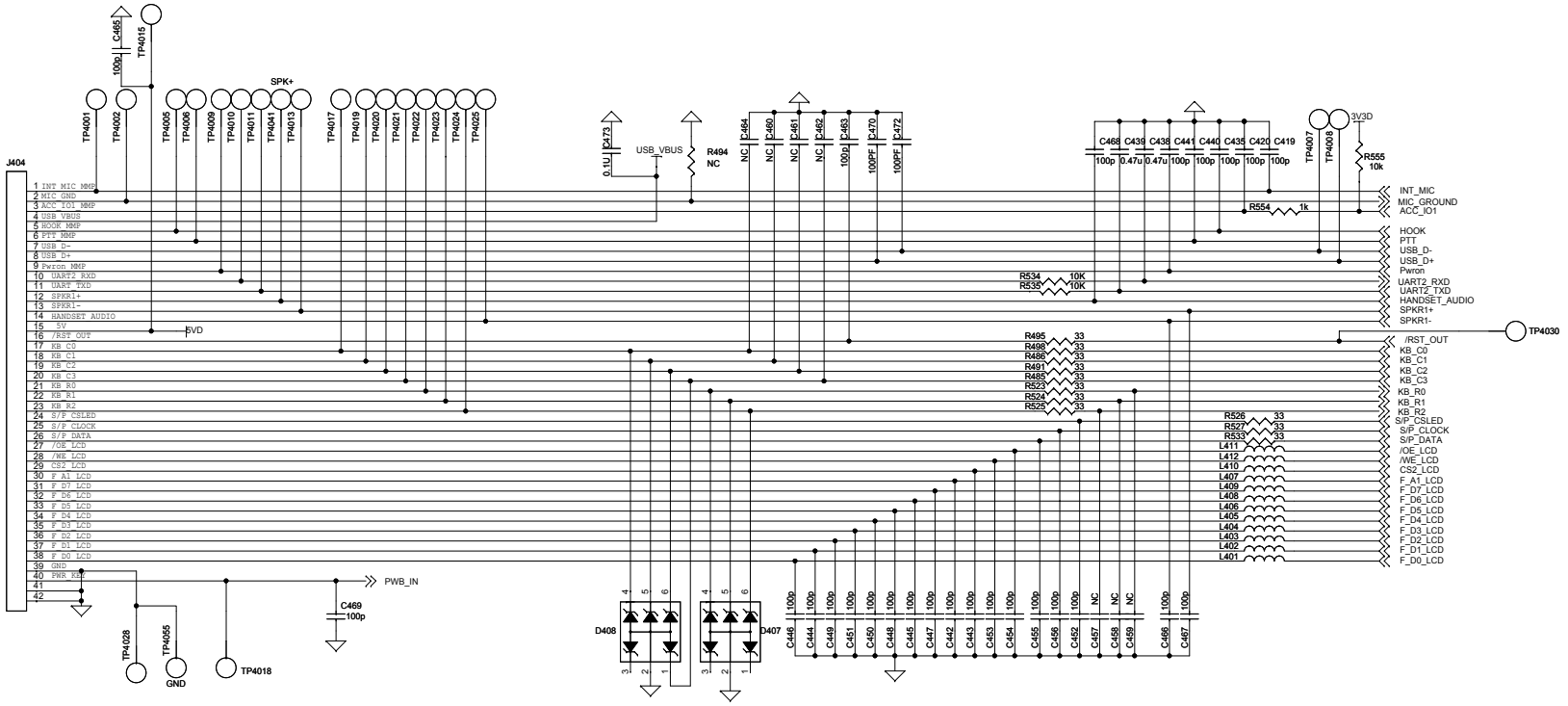
MD78X/MD78XG Schematic Diagram (OMAP & GPS Circuit)



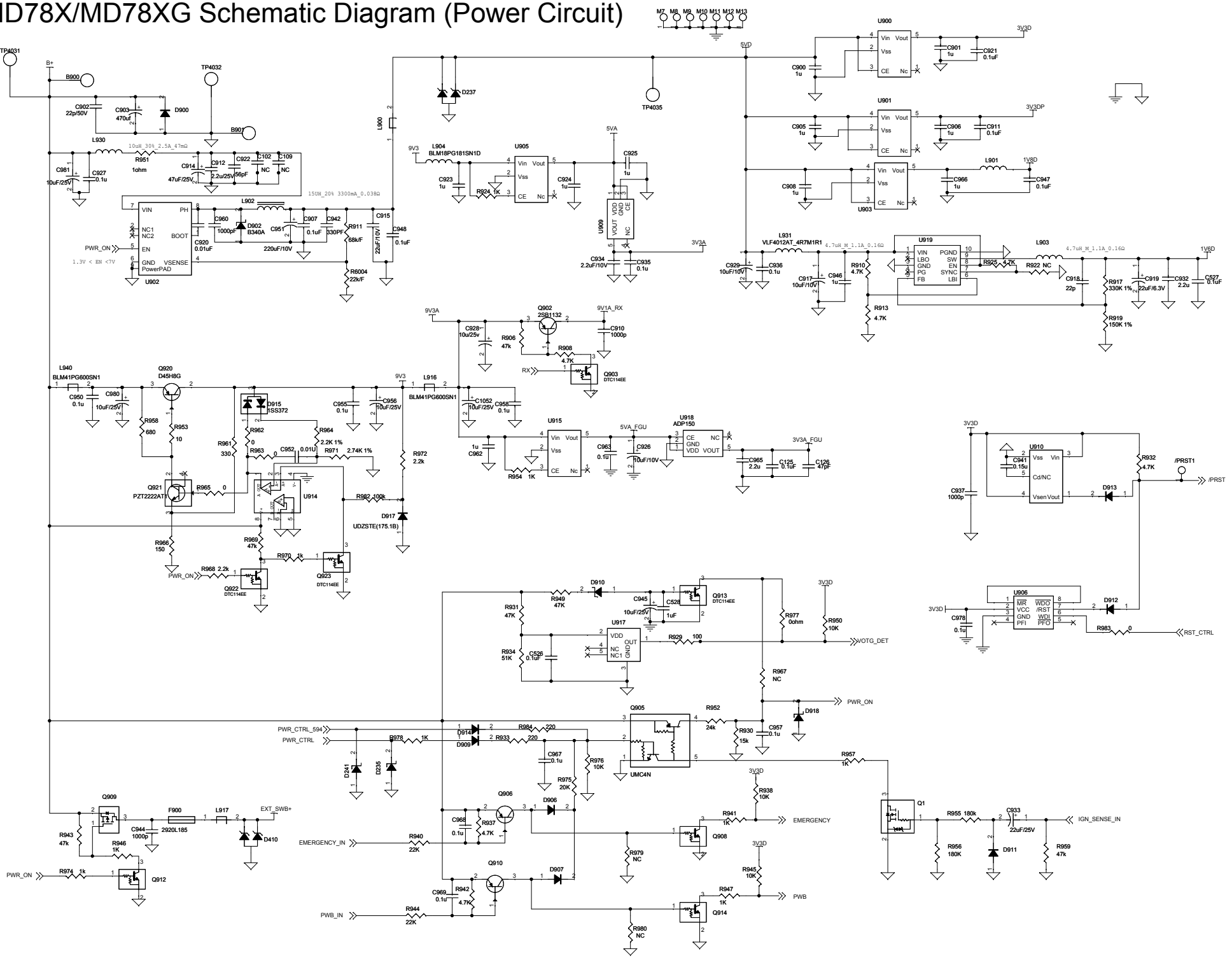
MD78X/MD78XG Schematic Diagram (Peripheral Interface Circuit)



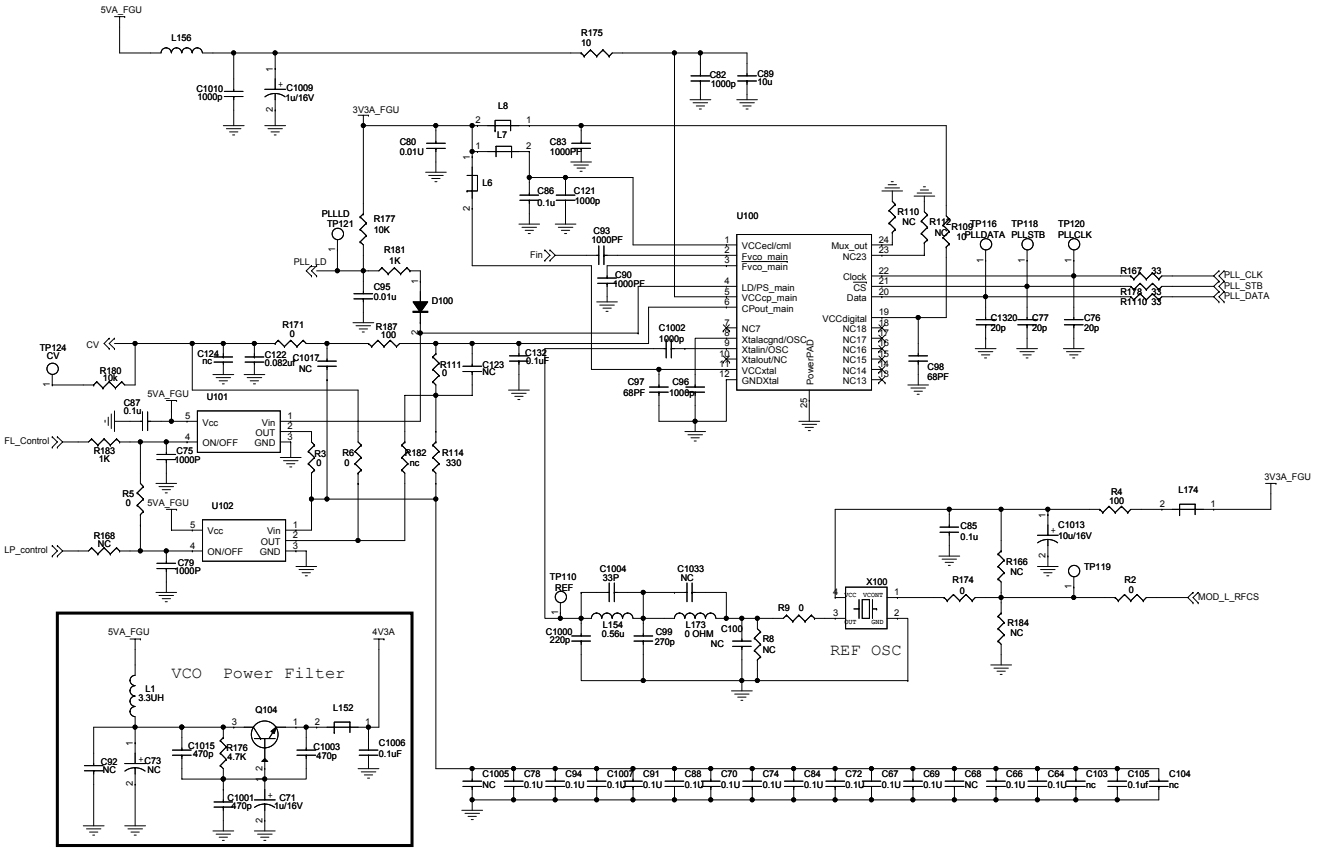
MD78X/MD78XG Schematic Diagram (40-Pin Interface Circuit)

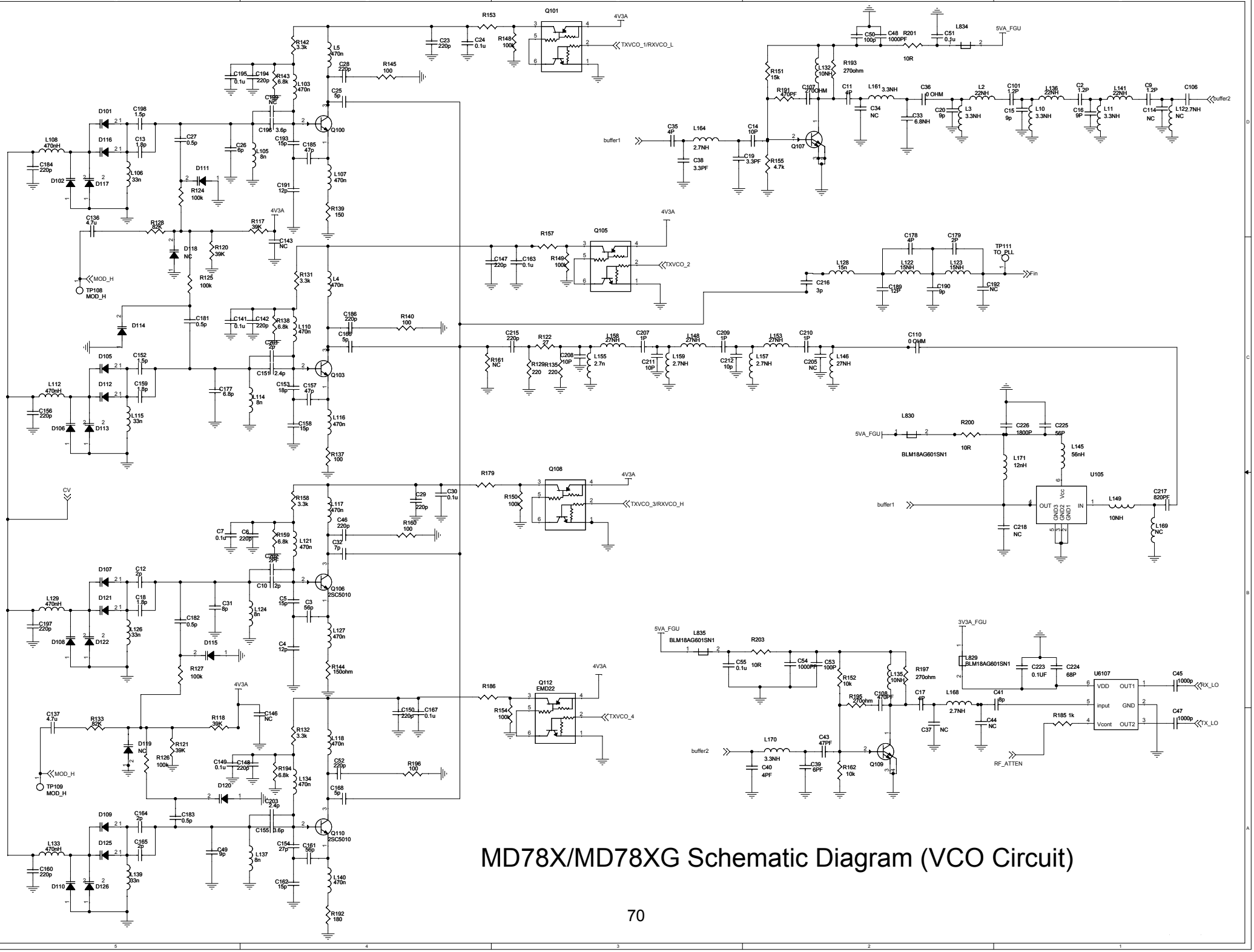


MD78X/MD78XG Schematic Diagram (Power Circuit)



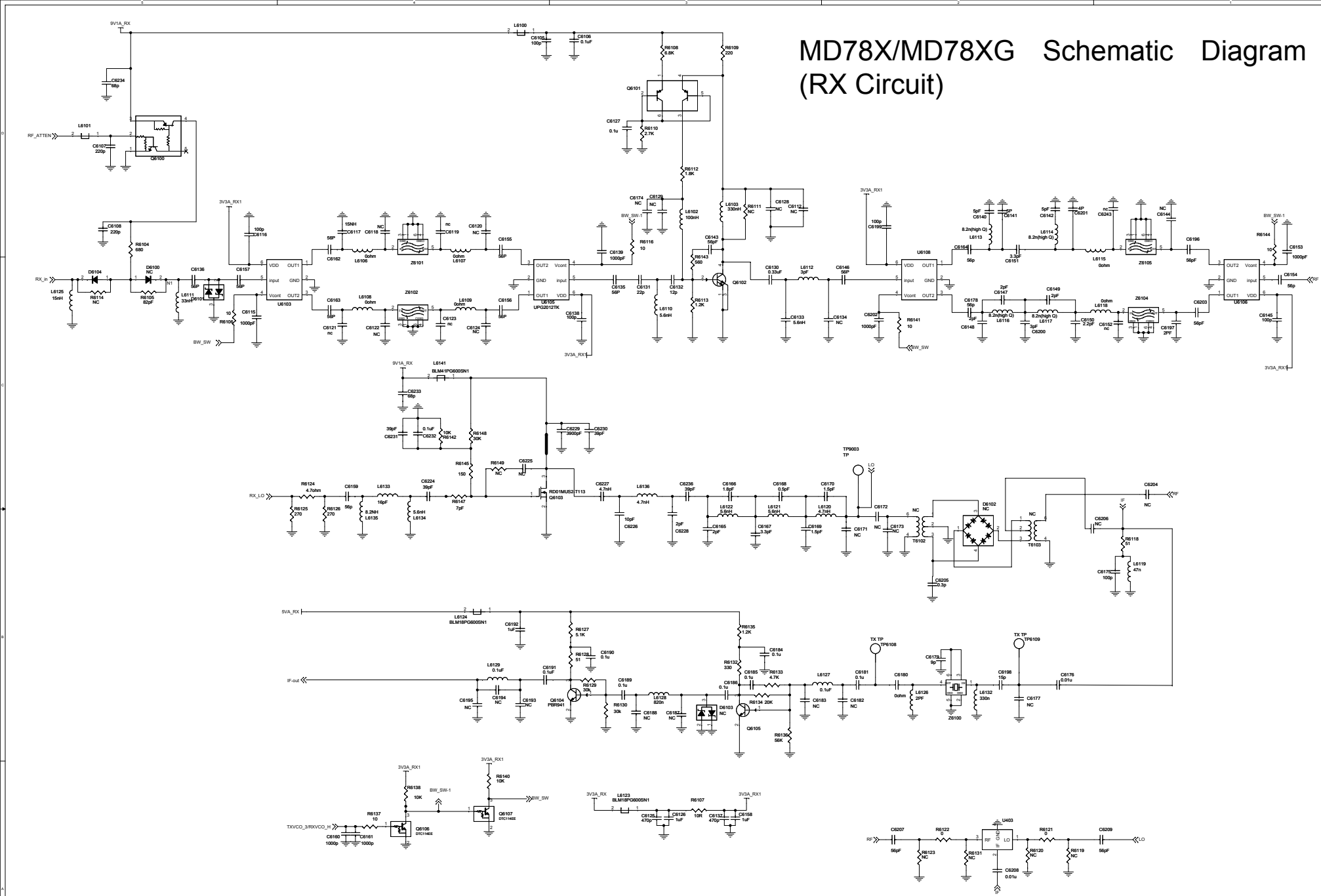
MD78X/MD78XG Schematic Diagram (PLL Circuit)



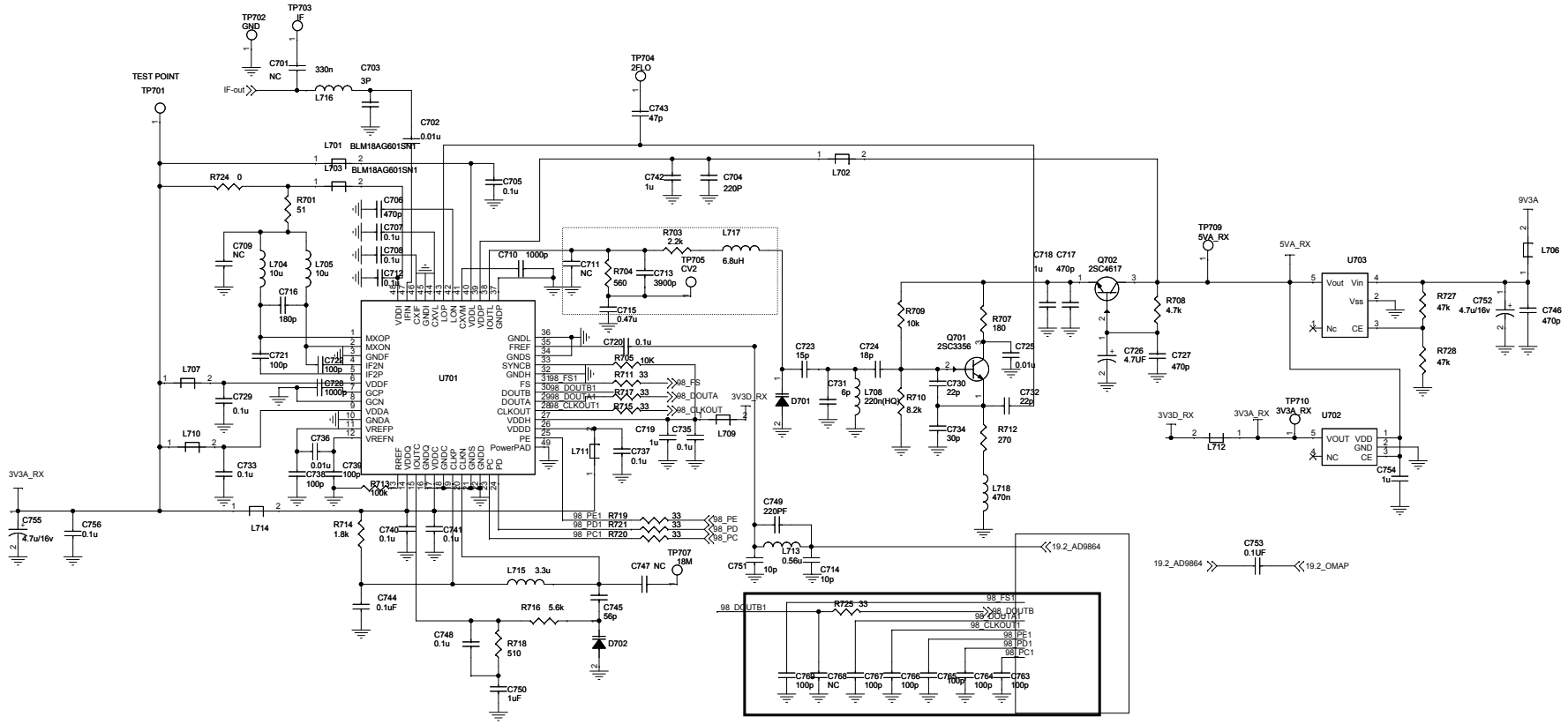


MD78X/MD78XG Schematic Diagram (VCO Circuit)

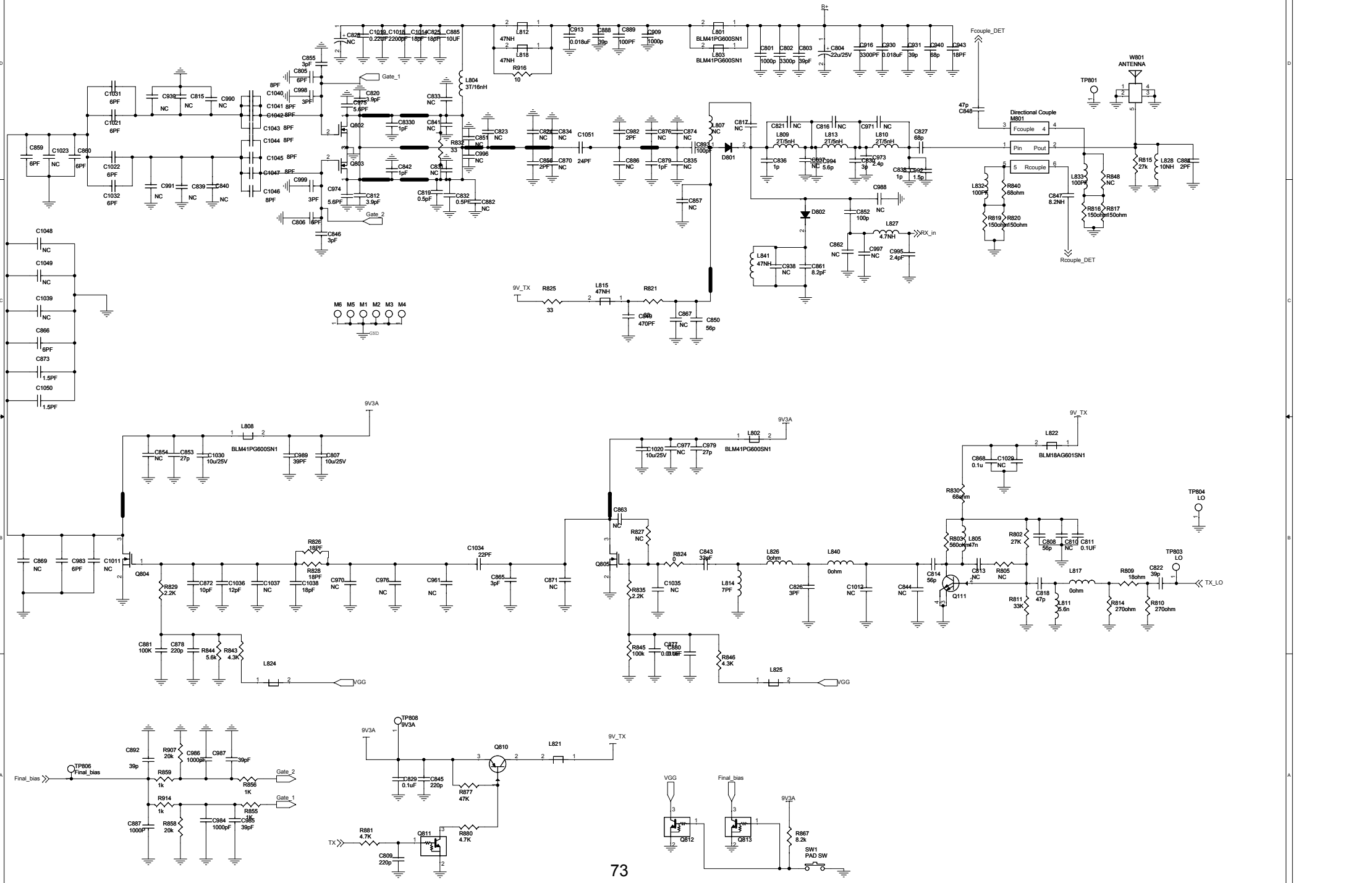
MD78X/MD78XG Schematic Diagram (RX Circuit)



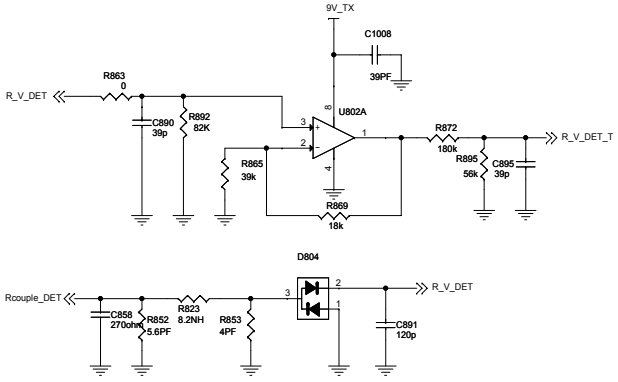
MD78X/MD78XG Schematic Diagram (IF Circuit)

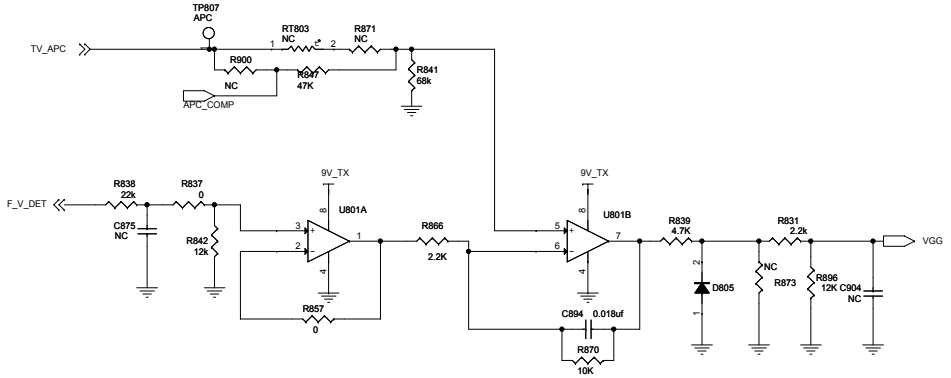


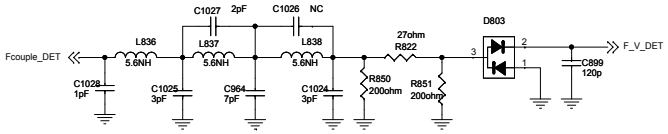
MD78X/MD78XG Schematic Diagram (TX Circuit)

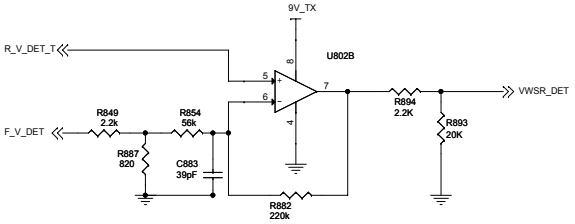


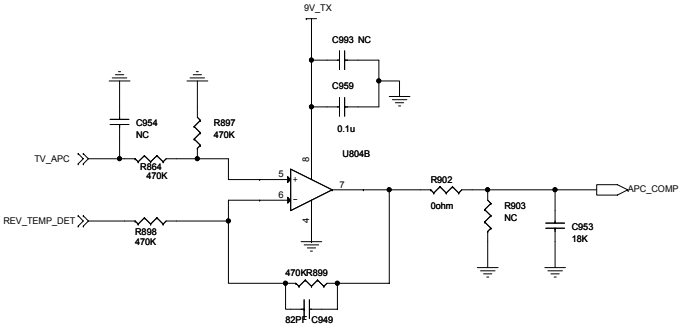
MD78X/MD78XG Schematic Diagram (TX Control Circuit)

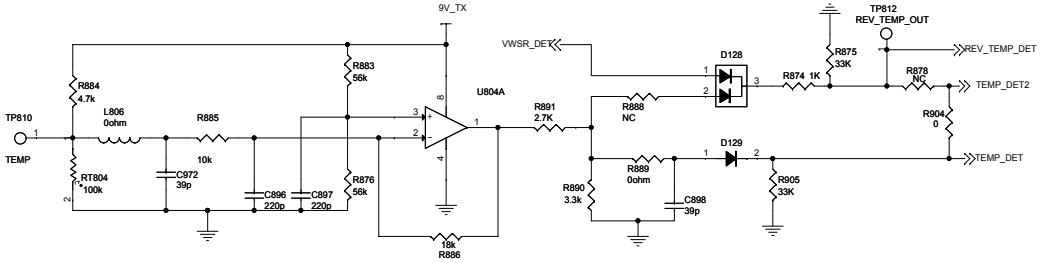












12. Parts List

12.1 Front Panel

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	C1	B3H	3101051010030	100pF	72	D21	B4C	3310240000000	ESD protection diode
2	C10	B3G	3101051010030	100pF	73	D22	B4C	3310240000000	ESD protection diode
3	C11	B3G	3101051010030	100pF	74	D23	B4B	3310990000090	ESD protection diode
4	C12	B3G	3101051010030	100pF	75	D3	B4C	3310990000090	ESD protection diode
5	C13	B4H	3101051040010	0.1uF	76	D4	T5J	3307110100080	LED
6	C14	B3H	3101051040010	0.1uF	77	D5	T5H	3307110100080	LED
7	C15	B2K	3101052710000	270pF	78	D6	T3J	3307110100080	LED
8	C16	B2K	3101052710000	270pF	79	D7	T2J	3307110100080	LED
9	C19	B1L	3101054710010	470pF	80	D8	T2B	3307110300000	LED
10	C2	B4D	3101051040010	0.1uF	81	D9	T2A	3307110300000	LED
11	C20	B4D	3101054710010	470pF	82	J1	B4D	5206040200010	FFC connector
12	C21	B4D	3101054710010	470pF	83	J2	T2G	5206034200010	FPC connector
13	C22	B4D	3101054710010	470pF	84	L1	B4H	3221506300000	Ferrite bead
14	C23	B1E	3101051040010	0.1uF	85	L2	B4D	3221506300000	Ferrite bead
15	C24	B1E	3101051040010	0.1uF	86	PCB	/	41078001000J0	PCB control panel
16	C27	B4D	3101054710010	470pF	87	Q1	B2J	3414001000040	NPN transistor
17	C28	B4D	3101054710010	470pF	88	Q2	B2H	3403008000010	Transistor
18	C29	B4D	3101054710010	470pF	89	Q3	B2H	3403008000010	Transistor
19	C3	B3H	3101061040010	0.1uF	90	Q4	B2G	3599990000610	N-MOSFET
20	C30	B4D	3101054710010	470pF	91	R1	B5H	3001062710000	270Ω
21	C31	B4B	3101054710010	470pF	92	R10	B2G	3001063300000	33Ω
22	C32	B4B	3101054710010	470pF	93	R11	B3F	3001063300000	33Ω
23	C33	B4B	3101054710010	470pF	94	R12	B2H	3001063300000	33Ω
24	C34	B5B	3101054710010	470pF	95	R15	B3G	3001060000000	0Ω
25	C35	B5C	3101054710010	470pF	96	R17	B2H	3001063300000	33Ω
26	C36	B5B	3101054710010	470pF	97	R18	B2G	3001060000000	0Ω
27	C37	B5D	3101054710010	470pF	98	R19	B3G	3001070000000	0Ω
28	C39	T3H	3101055620010	5600pF	99	R2	B2B	3001062710000	270Ω
29	C4	B3I	3101054740020	0.47uF	100	R20	B2G	3001061000000	10Ω
30	C46	B2H	3101054730000	0.047uF	101	R21	B2G	3001061000000	10Ω
31	C47	B5F	3101054710010	470pF	102	R22	B2G	3001061000000	10Ω
32	C48	B5J	3101054710010	470pF	103	R23	B3H	3001060000000	0Ω
33	C49	B2J	3101054710010	470pF	104	R25	B1D	3001051030000	10kΩ
34	C5	B3G	3101051010030	100pF	105	R26	B1D	3001051030000	10kΩ
35	C50	B5H	3101054710010	470pF	106	R27	B1E	3001060000000	0Ω
36	C51	B4J	3101054710010	470pF	107	R28	B3A	3001050000000	0Ω
37	C52	B2J	3101054710010	470pF	108	R29	B1E	3001060000000	0Ω
38	C53	B2B	3101054710010	470pF	109	R3	B2B	3001062710000	270Ω
39	C54	B2B	3101054710010	470pF	110	R30	B3A	3001050000000	0Ω
40	C55	B1C	3101054710010	470pF	111	R31	B5F	3001062710000	270Ω
41	C56	B1B	3101054710010	470pF	112	R32	B1L	3001062710000	270Ω
42	C57	B2A	3101054710010	470pF	113	R33	B2C	3001051030000	10kΩ
43	C58	B2A	3101054710010	470pF	114	R34	B2C	3001051030000	10kΩ
44	C59	B1A	3101054710010	470pF	115	R35	B2C	3001051030000	10kΩ
45	C6	T2G	3101051010030	100pF	116	R36	B2C	3001051030000	10kΩ
46	C60	B1A	3101054710010	470pF	117	R37	B5J	3001062710000	270Ω
47	C61	B4C	3101051040010	0.1uF	118	R38	B2J	3001062710000	270Ω
48	C62	B1M	3101054710010	470pF	119	R39	B1C	3001062710000	270Ω
49	C63	B2K	3101052710000	270pF	120	R4	B2B	3001062710000	270Ω
50	C64	B2K	3101053920000	3900pF	121	R40	B1B	3001062710000	270Ω
51	C65	B4H	3101074750000	4.7uF	122	R41	B1A	3001062710000	270Ω
52	C66	B3H	3101074750000	4.7uF	123	R42	B1A	3001062710000	270Ω
53	C67	B1M	3101054710010	470pF	124	R43	B4B	3001061020010	1kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
54	C68	B1L	3101054710010	470pF	125	R44	B5A	3001061020010	1kΩ
55	C69	B1C	3101054710010	470pF	126	R45	B5D	3001061020010	1kΩ
56	C7	T2G	3101061040010	0.1uF	127	R46	B1L	3001062710000	270Ω
57	C70	B1A	3101054710010	470pF	128	R47	B2I	3001061020010	1kΩ
58	C71	B5F	3101054710010	470pF	129	R5	B2B	3001062710000	270Ω
59	C8	B3G	3101051010030	100pF	130	R6	B3H	3001061030010	10kΩ
60	C9	B3G	3101061040010	0.1uF	131	R7	B3J	3001062710000	270Ω
61	D1	T5F	3307110100080	LED	132	R8	B3J	3001062710000	270Ω
62	D10	B3I	3310990000090	ESD protection diode	133	R9	B2G	3001063300000	33Ω
63	D11	T1B	3307110300000	LED	134	S1	T1M	4301080000090	Momentary contact switch
64	D12	T1A	3307110300000	LED	135	S7	T3A	4301080000090	Momentary contact switch
65	D13	B2K	3310240000000	ESD protection diode	136	U1	B2H	3607010000400	Logic IC
66	D14	B4B	3310990000090	ESD protection diode	137	U2	B3H	3805010860000	EMI filter
67	D17	B5A	3310990000090	ESD protection diode	138	U3	B3F	3805010860000	EMI filter
68	D18	B5C	3310990000090	ESD protection diode	139	U4	B3F	3805010860000	EMI filter
69	D19	B4B	3310240000000	ESD protection diode	140	U5	B4H	3608015000210	Power management IC
70	D2	T1J	3307110100080	LED	141	U8	B4C	3699037000010	USB protection IC
71	D20	B5C	3310990000090	ESD protection diode	/	/	/	/	/

12.2 GPS Circuit

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	C330	T3A	3101051040010	0.1uF	11	R363	T3A	3001050000000	0Ω
2	C331	T2A	3101081060010	10uF	12	R364	T3A	3001050000000	0Ω
3	C332	T2A	3101051040010	0.1uF	13	R365	T3C	3001051030000	10kΩ
4	C333	T3A	3101081060010	10uF	14	R366	T3C	3001051030000	10kΩ
5	C369	T3C	3101054710010	470pF	15	R368	T3C	3001051010000	100Ω
6	D916	T3A	3303010500090	Switching diode	16	R370	T3C	3001051010000	100Ω
7	D919	T3A	3303010500090	Switching diode	17	R373	T3C	3001053300010	33Ω
8	D920	T3A	3302031100010	Zener diode	18	R398	T3A	3001051030000	10kΩ
9	L321	T3A	3212106390000	39nH	19	U326	T3B	3625999000030	GPS module
10	L322	T3A	3221506300000	Ferrite bead	21	W321	T3A	4411100002000	IPX RF connector
	R352	T3C	3001053300010	33Ω	/	/	/	/	/

12.3 Main Board

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	C	/	6202010000010	APC shielding mask	825	L146	B7G	3217105270000	27nH
2	C10	B7F	3101060200010	2pF	826	L147	T7B	3210406471000	470nH
3	C1000	T7F	3101052210010	220pF	827	L148	B7F	3217105270000	27nH
4	C1001	B8F	3101054710010	470pF	828	L149	B7G	3217105100000	10nH
5	C1002	T7F	3101051020010	1000pF	829	L151	T7B	3210406471000	470nH
6	C1003	B8F	3101054710010	470pF	830	L152	B8F	3221506601000	Ferrite bead
7	C1004	T7F	3101063300000	33pF	831	L153	B7F	3217105270000	27nH
8	C1006	B7F	3101051040010	0.1uF	832	L154	T7F	3213306561000	0.56uH
9	C1007	T7F	3110071040000	0.1uF	833	l155	B7E	3217105279000	2.7nH
10	C1008	B5I	3101063900060	39pF	834	L156	T8E	3213212332000	3.3uH
11	C1009	T8E	3101071050240	1uF	835	L157	B7F	3217105279000	2.7nH
12	C101	T7H	3101051290040	1.2pF	836	L158	B7E	3217105270000	27nH
13	C1010	T8E	3101051020010	1000pF	837	L159	B7F	3217105279000	2.7nH
14	C1013	T7E	3104071060060	10uF	838	L161	T7G	3210306339000	3.3nH

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
15	C1014	T2F	3101061800000	18pF	839	L164	B7G	3210306279000	2.7nH
16	C1015	B8F	3101054710010	470pF	840	L168	T7F	3210306279000	2.7nH
17	C1018	T2F	3101062220010	2200pF	841	L170	T7G	3210306339000	3.3nH
18	C1019	T2F	3101062240030	0.22uF	842	L171	B7G	3290106120000	12nH
19	C1020	T4E	3101081060010	10uF	843	L173	T7F	3001060000000	0Ω
20	C1021	T5G	3101064590010	4.5pF	844	I174	T7E	3211506101000	Ferrite bead
21	C1022	T5F	3101064590011	4.5pF	845	L2	T7H	3217105220000	22nH
22	C1023	T5F	3101060600010	6pF	846	L232	B4C	3221506300000	Ferrite bead
23	C1024	B3J	3101060300010	3pF	847	L233	B5C	3211506101000	Ferrite bead
24	C1025	B3J	3101060300010	3pF	848	L234	B5D	3211506101000	Ferrite bead
25	C1027	B3J	3101060200010	2pF	849	L235	B5D	3211506101000	Ferrite bead
26	C1028	B3J	3101060100010	1pF	850	L3	T7H	3210306339000	3.3nH
27	C1030	T5E	3101081060010	10uF	851	L321	T3A	3212106390000	39nH
28	C1031	T5F	3101064590012	4.5pF	852	L322	T3A	3221506300000	Ferrite bead
29	C1032	T5F	3101064590013	4.5pF	853	L4	B7G	3217607471000	470nH
30	C1034	T6E	3101062200010	22pF	854	L401	B8A	3221506300000	Ferrite bead
31	C1036	T6F	3101061200000	12pF	855	L402	B8A	3221506300000	Ferrite bead
32	C1038	T6F	3101061800000	18pF	856	L403	B8A	3221506300000	Ferrite bead
33	C1040	T5G	3101070800020	8pF	857	L404	B8A	3221506300000	Ferrite bead
34	C1041	T5F	3101070800020	8pF	858	L405	B8A	3221506300000	Ferrite bead
35	C1042	T5G	3101070800020	8pF	859	L406	B8B	3221506300000	Ferrite bead
36	C1043	T5G	3101070800020	8pF	860	L407	B8B	3221506300000	Ferrite bead
37	C1044	T5F	3101070800020	8pF	861	L408	B8B	3221506300000	Ferrite bead
38	C1045	T5F	3101070800020	8pF	862	L409	B8B	3221506300000	Ferrite bead
39	C1046	T5F	3101070800020	8pF	863	L410	B8B	3221506300000	Ferrite bead
40	C1047	T5F	3101070800020	8pF	864	L411	B8B	3221506300000	Ferrite bead
41	C1049	T5G	3101060600010	6pF	865	L412	B8B	3221506300000	Ferrite bead
42	C105	T8G	3110071040000	0.1uF	866	L417	T2C	3221505121000	Ferrite bead
43	C1050	T5G	3101061590010	1.5pF	867	L418	T2C	3221505121000	Ferrite bead
44	C1051	T2G	3101372400000	24pF	868	L5	B7G	3217607471000	470nH
45	C1052	B6D	3101081060010	10uF	869	L500	B7C	3211506101000	Ferrite bead
46	C106	T7G	3212105279000	2.7nH	870	L501	B7C	3211506101000	Ferrite bead
47	C107	T8G	3001052710000	270Ω	871	L6	T7F	3221506601000	Ferrite bead
48	C108	T7G	3101054710010	470pF	872	L6100	B5I	3211506101000	Ferrite bead
49	C11	T7G	3101050400010	4pF	873	L6101	B4J	3211506101000	Ferrite bead
50	C110	B7G	3001050000000	0Ω	874	L6102	B5J	3210306101000	100nH
51	C12	B8F	3101050200010	2pF	875	L6103	B5J	3210406331000	330nH
52	C121	T8E	3101051020010	1000pF	876	L6106	B5J	3001050000000	0Ω
53	C122	T8F	3101068230000	0.082uF	877	L6107	B5J	3001050000000	0Ω
54	C125	B8D	3101051040010	0.1uF	878	L6108	B5J	3001050000000	0Ω
55	C126	B8D	3101054700010	47pF	879	L6109	B5J	3001050000000	0Ω
56	C13	B8G	3101050200010	2pF	880	L6110	B6J	3210306569000	5.6nH
57	C132	T8F	3101061040020	0.1uF	881	I6111	B4J	3210305330000	33nH
58	C1320	T7E	3101052000020	20pF	882	L6112	B6I	3101050300000	3pF
59	C136	B8G	3101074750010	4.7uF	883	L6113	B6J	3217106829000	8.2nH
60	C137	B8E	3101074750010	4.7uF	884	L6114	B6J	3217106829000	8.2nH
61	C14	T7H	3101051000020	10pF	885	L6115	B6J	3001050000000	0Ω
62	C141	B7F	3101051040020	0.1uF	886	L6116	B6I	3217106829000	8.2nH
63	C142	B7F	3101052210010	220pF	887	L6117	B6I	3217106829000	8.2nH
64	C147	B7G	3101052210010	220pF	888	L6118	B6I	3001050000000	0Ω
65	C148	B7E	3101052210010	220pF	889	L6119	T7I	3210306470000	47nH
66	C149	B7E	3101051040020	0.1uF	890	L6120	B8I	3210306479000	4.7nH
67	C15	T7H	3101050900000	9pF	891	L6121	B8I	3210306569000	5.6nH
68	C150	B7E	3101052210010	220pF	892	L6122	B8I	3210306569000	5.6nH
69	C151	B7G	3101062490000	2.4pF	893	L6123	B7I	3211506101000	Ferrite bead
70	C152	B8G	3101050200010	2pF	894	L6124	T7H	3211506101000	Ferrite bead
71	C153	B7G	3101051800070	18pF	895	L6125	B4J	3210106150000	15nH
72	C154	B7E	3101052700000	27pF	896	L6126	T8I	3101060200010	2pF
73	C155	B7E	3101060300010	3pF	897	L6127	T8H	3101061040010	0.1uF
74	C156	B8G	3101052210010	220pF	898	L6128	T7I	3213306821000	0.82uH
75	C157	B7G	3101054700010	47pF	899	L6129	T7I	3101061040010	0.1uF
76	C158	B7G	3101051500080	15pF	900	L6132	T8I	3210406331000	330nH
77	C159	B8G	3199052290000	2.2pF	901	L6133	B7I	3101061600000	16pF

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
78	C16	T7G	3101050900000	9pF	902	L6134	B7H	3210306569000	5.6nH
79	C160	B8E	3101052210010	220pF	903	L6135	B7H	3212106829000	8.2nH
80	C161	B7E	3101055600000	56pF	904	L6136	B8I	3210306479000	4.7nH
81	C162	B7E	3101051500080	15pF	905	L6141	B7I	3221513600000	Ferrite bead
82	C163	B7G	3101051040020	0.1uF	906	L7	T8E	3221506601000	Ferrite bead
83	C164	B8E	3101050200010	2pF	907	L701	T6H	3221506601000	Ferrite bead
84	C165	B8E	3101050200010	2pF	908	L702	T6H	3221506601000	Ferrite bead
85	C166	B7G	3101050500010	5pF	909	L703	T6H	3221506601000	Ferrite bead
86	C167	B7E	3101051040020	0.1uF	910	L704	T6I	3213212103000	10uH
87	C168	B7E	3101050500010	5pF	911	L705	T6I	3213212103000	10uH
88	C17	T7G	3101050400010	4pF	912	L706	T5H	3221506601000	Ferrite bead
89	C177	B8G	3101060600010	6pF	913	L707	T5I	3221506601000	Ferrite bead
90	C178	T8E	3101060400010	4pF	914	L708	B6H	3217107221010	220nH
91	C179	T8E	3101060200010	2pF	915	L709	T5H	3221506601000	Ferrite bead
92	C18	B8F	3101051890030	1.8pF	916	L710	T5H	3221506601000	Ferrite bead
93	C181	B8G	3101050590010	0.5pF	917	L711	T5H	3221506601000	Ferrite bead
94	C182	B8F	3101050590010	0.5pF	918	L712	T6I	3221506601000	Ferrite bead
95	C183	B8E	3101050590010	0.5pF	919	L713	T6G	3213306561000	0.56uH
96	C184	B8G	3101052210010	220pF	920	L714	T5H	3221506601000	Ferrite bead
97	C185	B7G	3101054700010	47pF	921	L715	B5H	3213212332000	3.3uH
98	C186	B7G	3101052210010	220pF	922	L716	T6H	3210406331000	330nH
99	C189	T8E	3101061200000	12pF	923	L717	T6H	3212206682000	6.8uH
100	C19	B7H	3101053390010	3.3pF	924	L718	B6H	3210406471000	470nH
101	C190	T8E	3101060900010	9pF	925	L8	T7E	3221506601000	Ferrite bead
102	C191	B7G	3101051200050	12pF	926	L801	B2F	3221513600000	Ferrite bead
103	C193	B7G	3101051500080	15pF	927	L802	T5E	3221513600000	Ferrite bead
104	C194	B7H	3101052210010	220pF	928	L803	B2F	3221513600000	Ferrite bead
105	C195	B7H	3101051040020	0.1uF	929	L804	T2F	3233099160000	Air-core coil 16nH
106	C196	B7G	3101060100010	1pF	930	L805	B6E	3217106470000	47nH
107	C197	B8E	3101052210010	220pF	931	L806	B4J	3001060000000	0Ω
108	C198	B8G	3101050200010	2pF	932	L808	T5E	3221513600000	Ferrite bead
109	C199	B7G	3101062290000	2.2pF	933	L809	T3H	3233099050000	Air-core coil 5.0nH
110	C2	T7G	3101061290020	1.2pF	934	L810	T3I	3233099050000	Air-core coil 5.0nH
111	C20	T7G	3101050900000	9pF	935	L811	B6E	3210306569000	5.6nH
112	C200	B6D	3101061050020	1uF	936	L812	B2F	3233099470000	Air-core coil 47nH
113	C201	B7G	3101060200010	2pF	937	L813	T3H	3233099050000	Air-core coil 5.0nH
114	C202	B7F	3101061590010	1.5pF	938	L814	B5E	3101060700020	7pF
115	C203	B7E	3101062490000	2.4pF	939	L815	B2H	3210306470000	47nH
116	C204	B5B	3101054700010	47pF	940	L817	B6E	3001060000000	0Ω
117	C206	B5B	3101051040010	0.1uF	941	L818	B2F	3233099470000	Air-core coil 48nH
118	C207	B7F	3101050100030	1pF	942	L821	B5E	3221506601000	Ferrite bead
119	C208	B7E	3101051000030	10pF	943	L822	B5E	3221506601000	Ferrite bead
120	C209	B7F	3101050100030	1pF	944	L824	T6G	3221506601000	Ferrite bead
121	C210	B7G	3101050100030	1pF	945	L825	T6E	3221506601000	Ferrite bead
122	C211	B7F	3101051000030	10pF	946	L826	B5E	3001060000000	0Ω
123	C212	B7F	3101051000030	10pF	947	L827	T4J	3217106479000	4.7nH
124	C213	B5D	3101064700000	47pF	948	L828	T2J	3217112100000	10nH
125	C215	B7E	3101052210020	220pF	949	L829	T7G	3221506601000	Ferrite bead
126	C216	T7E	3101050300000	3pF	950	L830	B7G	3221506601000	Ferrite bead
127	C217	B7G	3101058210010	820pF	951	L832	T3J	3101061010010	100pF
128	C223	T7F	3101061040020	0.1uF	952	L833	T2J	3101061010010	100pF
129	C224	T7F	3101066800000	68pF	953	L834	T8G	3221506601000	Ferrite bead
130	C225	B7G	3101055600000	56pF	954	L835	T7G	3221506601000	Ferrite bead
131	C226	B7G	3101051820000	1800pF	955	L836	B3J	3210306569000	5.6nH
132	C23	B7H	3101052210010	220pF	956	L837	B3J	3210306569000	5.6nH
133	C232	B4C	3101051040010	0.1uF	957	L838	B3J	3210306569000	5.6nH
134	C233	B4C	3101051040010	0.1uF	958	L840	B5E	3001060000000	0Ω
135	C234	B4C	3101081060010	10uF	959	L841	T4I	3217107470010	47nH
136	C235	B4C	3101051030020	0.01uF	960	L900	T4B	3221513600000	Ferrite bead
137	C236	B6C	3101051040010	0.1uF	961	L901	T5B	3221506300000	Ferrite bead
138	C237	B6B	3101054740020	0.47uF	962	L902	T4C	3217699153000	15uH
139	C238	B5D	3101061050020	1uF	963	L903	T5C	3213099472000	4.7uH
140	C239	B6C	3101051040010	0.1uF	964	L904	B4D	3221506181000	Ferrite bead

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
141	C24	B7H	3101051040020	0.1uF	965	L908	T7A	3221506181000	Ferrite bead
142	C240	B6D	3101051040010	0.1uF	966	L912	T6C	3221506300000	Ferrite bead
143	C241	B6B	3001060000000	0Ω	967	L913	T6C	3221506300000	Ferrite bead
144	C242	B6B	3101062210000	220pF	968	L916	T3D	3221513600000	Ferrite bead
145	C243	B6B	3101051040010	0.1uF	969	L917	B2B	3221513600000	Ferrite bead
146	C245	B6A	3101062210000	220pF	970	L930	T4D	3241799103000	10uH
147	C246	B6B	3101052230000	0.022uF	971	L931	T5D	3213099472000	4.7uH
148	C247	B5C	3101052210010	220pF	972	L940	T2D	3221513600000	Ferrite bead
149	C248	B6C	3101051040010	0.1uF	973	PCB	/	41MD7801005F0	PCB main board
150	C249	B5C	3101061050020	1uF	974	Q1	B2A	3599990000610	N-MOSFET
151	C25	B7G	3101050500010	5pF	975	Q100	B7G	3408002000080	NPN transistor
152	C250	B5B	3101052210010	220pF	976	Q101	B7G	3403999000000	Transistor
153	C251	B6D	3101061050020	1uF	977	Q103	B7G	3408002000080	NPN transistor
154	C252	B5B	3101061050020	1uF	978	Q104	B8F	3403003000060	NPN transistor
155	C253	B5B	3101061050020	1uF	979	Q105	B7F	3403999000000	Transistor
156	C254	B5C	3101052210010	220pF	980	Q106	B7F	3408002000080	NPN transistor
157	C255	B6C	3101051050000	1uF	981	Q107	T7G	3404006000010	NPN transistor
158	C256	B6D	3101051010030	100pF	982	Q108	B7F	3403999000000	Transistor
159	C257	B5C	3101061050020	1uF	983	Q109	T7G	3404006000010	NPN transistor
160	C258	B5C	3101051040010	0.1uF	984	Q110	B7E	3408002000080	NPN transistor
161	C259	B5D	3101061050020	1uF	985	Q111	B6E	3404006000010	NPN transistor
162	C26	B7H	3101065690090	5.6pF	986	Q112	B7E	3403999000000	Transistor
163	C260	B5D	3101051030020	0.01uF	987	Q230	B6A	3499000000150	Transistor
164	C261	B5D	3101051030020	0.01uF	988	Q231	B5C	3499000000150	Transistor
165	C262	B5D	3101061050020	1uF	989	Q232	B5D	3499000000150	Transistor
166	C263	B5C	3101061050020	1uF	990	Q233	B4B	3499000000150	Transistor
167	C264	B5B	3101061050020	1uF	991	Q234	B5C	3499000000150	Transistor
168	C265	B5B	3101052210010	220pF	992	Q235	B5C	3499000000150	Transistor
169	C266	B5C	3101061050020	1uF	993	Q323	T7D	3403008000010	Transistor
170	C267	B5D	3101051040010	0.1uF	994	Q400	B2B	3413001000010	PNP transistor
171	C268	B6A	3101064740000	0.47uF	995	Q401	B2A	3403008000010	Transistor
172	C269	B5C	3101054700010	47pF	996	Q402	T2B	3403008000010	Transistor
173	C27	B8G	3101050590010	0.5pF	997	Q403	B2B	3403008000010	Transistor
174	C270	B5D	3101054700010	47pF	998	Q404	B2B	3403008000010	Transistor
175	C271	B5D	3101054700010	47pF	999	Q405	T2A	3403008000010	Transistor
176	C272	B5D	3101054700010	47pF	1000	Q406	B2C	3414999000000	Transistor
177	C273	B5D	3101054700010	47pF	1001	Q407	B2B	3414999000000	Transistor
178	C274	B5D	3101051040010	0.1uF	1002	Q408	B2B	3414999000000	Transistor
179	C275	B5B	3101071060010	10uF	1003	Q409	B3C	3414999000000	Transistor
180	C276	B4B	3101051050000	1uF	1004	Q410	B2C	3414999000000	Transistor
181	C277	B4B	3101061050020	1uF	1005	Q411	T2B	3414999000000	Transistor
182	C278	B5C	3101061050020	1uF	1006	Q412	T2C	3414999000000	Transistor
183	C279	B4C	3101061050020	1uF	1007	Q413	T6C	3403008000010	Transistor
184	C28	B7G	3101052210010	220pF	1008	Q414	T2C	3414999000000	Transistor
185	C280	B4C	3101052210010	220pF	1009	Q415	T2C	3599990000710	P-MOSFET
186	C281	B4C	3101061050020	1uF	1010	Q416	T2C	3414001000020	PNP transistor
187	C282	B4C	3101061050020	1uF	1011	Q6100	B4J	3499000000150	Transistor
188	C283	B6A	3101051040010	0.1uF	1012	Q6101	B5J	3403014000020	Transistor
189	C284	B4B	3101991560020	15uF	1013	Q6102	B6J	3420999000030	NPN transistor
190	C285	B4B	3101051040010	0.1uF	1014	Q6103	B8H	3504990000010	PA MOSFET
191	C286	B5D	3101081060010	10uF	1015	Q6104	T7I	3404006000000	NPN transistor
192	C287	B6A	3101064740000	0.47uF	1016	Q6105	T7H	3404006000000	NPN transistor
193	C288	B6B	3101051010030	100pF	1017	Q6106	B6J	3403008000010	Transistor
194	C289	B6A	3101061040010	0.1uF	1018	Q6107	B6J	3403008000010	Transistor
195	C29	B7F	3101052210010	220pF	1019	Q701	B6H	3408002000000	NPN transistor
196	C290	B6B	3101061050020	1uF	1020	Q702	B6H	3403003000060	NPN transistor
197	C291	B6B	3101061050020	1uF	1021	Q802	T4G	3601017000000	RF PA module
198	C292	B5C	3101064750030	4.7uF	1022	Q803	T4F	3601017000000	RF PA module
199	C293	B6B	3101071060010	10uF	1023	Q804	T6F	3504990000070	N-MOSFET
200	C294	B6A	3101063340010	0.33uF	1024	Q805	T5E	3504990000010	PA MOSFET
201	C295	B5D	3101051010030	100pF	1025	Q810	B5E	3403002000000	PNP transistor
202	C296	B6A	3101051010030	100pF	1026	Q811	B5E	3403008000010	Transistor
203	C297	B6A	3101054700010	47pF	1027	Q812	B4G	3403008000010	Transistor

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
204	C298	B5D	3101061050020	1uF	1028	Q813	B5G	3403008000010	Transistor
205	C299	B5D	3101061050020	1uF	1029	Q902	T5H	3403002000000	PNP transistor
206	C3	B7F	3101055600000	56pF	1030	Q903	T5H	3403008000010	Transistor
207	C30	B7F	3101051040020	0.1uF	1031	Q905	B3A	3499000000150	Transistor
208	C305	B6B	3101051050000	1uF	1032	Q906	B3B	3414001000020	PNP transistor
209	C306	B6B	3101051030020	0.01uF	1033	Q908	B3B	3403008000010	Transistor
210	C307	B6B	3101051010030	100pF	1034	Q909	B3B	3599990000710	P-MOSFET
211	C308	B7A	3101051040010	0.1uF	1035	Q910	B3B	3414001000020	PNP transistor
212	C309	B7A	3101051010030	100pF	1036	Q912	B3B	3403008000010	Transistor
213	C31	B7F	3101060800010	8pF	1037	Q913	B3A	3403008000010	Transistor
214	C310	T7A	3101051050000	1uF	1038	Q914	B3B	3403008000010	Transistor
215	C311	B5B	3101051040010	0.1uF	1039	Q921	B3E	3404999000020	NPN transistor
216	C32	B7E	3101050700010	7pF	1040	Q922	T3C	3403008000010	Transistor
217	C325	T8B	3101051040010	0.1uF	1041	Q923	T3C	3403008000010	Transistor
218	C326	T7C	3101051010030	100pF	1042	R109	T7E	3001051000000	10Ω
219	C329	T6D	3101051040010	0.1uF	1043	R111	T8F	3001060000000	0Ω
220	C33	T7G	3210305689000	6.8nH	1044	R1110	T7E	3001053300010	33Ω
221	C330	T3A	3101051040010	0.1uF	1045	R114	T8F	3001063310000	330Ω
222	C331	T2A	3101081060010	10uF	1046	R117	B8G	3001053930000	39kΩ
223	C332	T3A	3101051040010	0.1uF	1047	R118	B8F	3001053930000	39kΩ
224	C333	T3A	3101081060010	10uF	1048	R120	B8G	3001053930000	39kΩ
225	C334	T8D	3101051040010	0.1uF	1049	R121	B8F	3001053930000	39kΩ
226	C335	B6C	3101051010030	100pF	1050	R122	B7E	3001052700010	27Ω
227	C336	T7A	3101051040010	0.1uF	1051	R124	B8G	3001051040000	100kΩ
228	C337	T7B	3101051020010	1000pF	1052	R125	B8G	3001051040000	100kΩ
229	C338	T7B	3101051020010	1000pF	1053	R126	B8E	3001051040000	100kΩ
230	C339	B7B	3101051010030	100pF	1054	R127	B8E	3001051040000	100kΩ
231	C340	T7A	3101051040010	0.1uF	1055	R128	B8G	3001058230000	82kΩ
232	C341	B6B	3101051010030	100pF	1056	R129	B7E	3001052210000	220Ω
233	C342	B6C	3101051010030	100pF	1057	R131	B7F	3001053320000	3.3kΩ
234	C343	T7C	3101051010030	100pF	1058	R132	B7E	3001053320000	3.3kΩ
235	C344	T7D	3101051010030	100pF	1059	R133	B8E	3001058230000	82kΩ
236	C345	T7C	3101051010030	100pF	1060	R135	B7E	3001052210000	220Ω
237	C346	T7C	3101051010030	100pF	1061	R137	B7G	3001061010040	100Ω
238	C347	T6D	3101051010030	100pF	1062	R138	B7F	3001056820000	6.8kΩ
239	C348	T6C	3101051010030	100pF	1063	R139	B7G	3001061510000	150Ω
240	C349	T6C	3101051010030	100pF	1064	R140	B7G	3001051010040	100Ω
241	C35	B7G	3101054090010	4pF	1065	R142	B7H	3001053320000	3.3kΩ
242	C350	T6C	3101051010030	100pF	1066	R143	B7H	3001056820010	6.8kΩ
243	C351	T6C	3101051010030	100pF	1067	R144	B8E	3001061510000	150Ω
244	C352	T6C	3101051010030	100pF	1068	R145	B7G	3001051010040	100Ω
245	C353	T7C	3101051010030	100pF	1069	R148	B7G	3001051040000	100kΩ
246	C354	T6C	3101051010030	100pF	1070	R149	B7F	3001051040000	100kΩ
247	C355	B6C	3101051010030	100pF	1071	R150	B7F	3001051040000	100kΩ
248	C356	T7C	3101051040010	0.1uF	1072	R151	T8H	3001051530010	15kΩ
249	C357	T6C	3101051010030	100pF	1073	R152	T7G	3001051030000	10kΩ
250	C358	T7D	3101051010030	100pF	1074	R153	B7G	3221506601000	Ferrite bead
251	C359	B7D	3101051010030	100pF	1075	R154	B7E	3001051040000	100kΩ
252	C36	T7G	3001050000000	0Ω	1076	R155	T8H	3001054720000	4.7kΩ
253	C360	B7D	3101051010030	100pF	1077	R157	B7F	3221506601000	Ferrite bead
254	C361	B7D	3101051010030	100pF	1078	R158	B7F	3001053320000	3.3kΩ
255	C362	T7B	3101058200000	82pF	1079	R159	B7F	3001056820000	6.8kΩ
256	C363	T7B	3101058200000	82pF	1080	R160	B7E	3001051010040	100Ω
257	C364	T7B	3101053300000	33pF	1081	R162	T7G	3001051030000	10kΩ
258	C365	T7B	3101058200000	82pF	1082	R167	T7E	3001053300010	33Ω
259	C366	T6D	3101051040010	0.1uF	1083	R171	T8F	3001060000000	0Ω
260	C368	T7A	3101054700010	47pF	1084	R174	T7E	3001050000000	0Ω
261	C369	T3C	3101054710010	470pF	1085	R175	T8E	3001051000000	10Ω
262	C375	T7B	3101052000020	20pF	1086	R176	B8F	3001054720000	4.7kΩ
263	C376	T7C	3101052000020	20pF	1087	R177	T8E	3001051030000	10kΩ
264	C378	B7B	3101051010030	100pF	1088	R178	T7E	3001053300010	33Ω
265	C379	B6B	3101051040010	0.1uF	1089	R179	B7F	3221506601000	Ferrite bead
266	C38	B7G	3101053390010	3.3pF	1090	R180	T8F	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
267	C380	B7B	3101051040010	0.1uF	1091	R181	T8E	3001051020000	1kΩ
268	C381	B6C	3101051030020	0.01uF	1092	R183	T8F	3001051020000	1kΩ
269	C382	B6C	3101051040010	0.1uF	1093	R185	T7F	3001051020000	1kΩ
270	C383	B7C	3101051040010	0.1uF	1094	R186	B7E	3221506601000	Ferrite bead
271	C384	B6B	3101051030020	0.01uF	1095	R187	T8F	3001061010000	100Ω
272	C385	B6B	3101051010030	100pF	1096	R191	T8G	3101054710010	470pF
273	C386	B6C	3101051040010	0.1uF	1097	R192	B8E	3001061810000	180Ω
274	C387	B7B	3101051040010	0.1uF	1098	R193	T8G	3001052710000	270Ω
275	C388	B7C	3101051040010	0.1uF	1099	R194	B7E	3001056820000	6.8kΩ
276	C389	B7B	3101051040010	0.1uF	1100	R195	T7G	3001052710000	270Ω
277	C39	T7G	3101050600010	6pF	1101	R196	B7E	3001051010040	100Ω
278	C390	B7C	3101051010030	100pF	1102	R197	T7G	3001052710000	270Ω
279	C391	T7C	3101051040010	0.1uF	1103	R2	T7E	3001060000000	0Ω
280	C392	B6C	3101051040010	0.1uF	1104	R200	B7G	3001051000000	10Ω
281	C393	B6C	3101051040010	0.1uF	1105	R201	T8G	3001061000000	10Ω
282	C394	B7B	3101051040010	0.1uF	1106	R202	B6D	3001051030000	10kΩ
283	C396	T6B	3101061050020	1uF	1107	R203	T7G	3001061000000	10Ω
284	C398	B6B	3101051040010	0.1uF	1108	R231	B6C	3001053300010	33Ω
285	C399	B6B	3101051030020	0.01uF	1109	R232	B6D	3001053300010	33Ω
286	C4	B7F	3101051200050	12pF	1110	R234	B6C	3001051030000	10kΩ
287	C40	T7G	3101050400010	4pF	1111	R235	B6C	3001051030000	10kΩ
288	C400	B7B	3101051040010	0.1uF	1112	R236	B5D	3001051030000	10kΩ
289	C401	T7A	3101071060010	10uF	1113	R237	B6B	3001055630000	56kΩ
290	C402	T6C	3101071060010	10uF	1114	R238	B6B	3001053320000	3.3kΩ
291	C407	T8C	3101051040010	0.1uF	1115	R239	B6B	3001055620000	5.6kΩ
292	C409	T8C	3101051010030	100pF	1116	R241	B6A	3001055630000	56kΩ
293	C41	T7F	3101050800000	8pF	1117	R242	B6C	3001050000000	0Ω
294	C410	T8C	3101051010030	100pF	1118	R244	B5C	3001052230010	22kΩ
295	C411	T8C	3101051010030	100pF	1119	R246	B5C	3001052230010	22kΩ
296	C412	T8C	3101051010030	100pF	1120	R247	B5B	3001051040010	100kΩ
297	C413	T8C	3101051010030	100pF	1121	R248	B5B	3001051040010	100kΩ
298	C414	T7C	3101051010030	100pF	1122	R250	B5B	3001051530000	15kΩ
299	C415	T8C	3101051010030	100pF	1123	R251	B5B	3001051010000	100Ω
300	C416	T8C	3101051010030	100pF	1124	R252	B5C	3001051040010	100kΩ
301	C417	T8C	3101051010030	100pF	1125	R255	B5D	3001064710000	470Ω
302	C418	T8C	3101051010030	100pF	1126	R257	B5C	3001053030010	30kΩ
303	C419	B8D	3101051010030	100pF	1127	R258	B5C	3001051030000	10kΩ
304	C420	B8D	3101051010030	100pF	1128	R259	B5C	3001051030000	10kΩ
305	C421	B2B	3101052210010	220pF	1129	R260	B5C	3001051010000	100Ω
306	C422	T2B	3101051040010	0.1uF	1130	R261	B5D	3001051030000	10kΩ
307	C423	T3C	3101052210010	220pF	1131	R262	B5B	3001051040010	100kΩ
308	C424	T2A	3101052210010	220pF	1132	R263	B5B	3001053030010	30kΩ
309	C425	T2B	3101052210010	220pF	1133	R264	B5D	3001051020010	1kΩ
310	C426	T2B	3101051010030	100pF	1134	R265	B5B	3001051820000	1.8kΩ
311	C427	T3C	3101051010030	100pF	1135	R266	B4B	3001054730000	47kΩ
312	C428	T2C	3101051010030	100pF	1136	R267	B5D	3001051020010	1kΩ
313	C429	T2C	3101051010030	100pF	1137	R268	B5C	3001051040010	100kΩ
314	C43	T7G	3101054700010	47pF	1138	R269	B4B	3001051040010	100kΩ
315	C430	T2A	3101051010030	100pF	1139	R270	B5B	3001054730000	47kΩ
316	C431	T2A	3101051010030	100pF	1140	R271	B4B	3001051010000	100Ω
317	C432	T2B	3101052210010	220pF	1141	R272	B5B	3001054730000	47kΩ
318	C433	T2B	3101052210010	220pF	1142	R273	B4C	3001052430010	24kΩ
319	C434	T2B	3101052210010	220pF	1143	R274	B4C	3001051040010	100kΩ
320	C435	B8D	3101051010030	100pF	1144	R275	B4C	3001051040010	100kΩ
321	C436	T2C	3101052210010	220pF	1145	R276	B4C	3001051040010	100kΩ
322	C437	T2B	3101052210010	220pF	1146	R277	B4C	3001054730000	47kΩ
323	C438	B8C	3101054740020	0.47uF	1147	R278	B4C	3001051010000	100Ω
324	C439	B8C	3101054740020	0.47uF	1148	R279	B5D	3001053030010	30kΩ
325	C440	B8D	3101051010030	100pF	1149	R282	T6A	3001060000000	0Ω
326	C441	T8C	3101051010030	100pF	1150	R283	B5D	3001053030010	30kΩ
327	C442	B8B	3101051010030	100pF	1151	R284	B5D	3001051530000	15kΩ
328	C443	B8B	3101051010030	100pF	1152	R285	B6D	3001051530000	15kΩ
329	C444	B8A	3101051010030	100pF	1153	R286	B6B	3001054730000	47kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
330	C445	B8B	3101051010030	100pF	1154	R287	B6B	3001055620000	5.6kΩ
331	C446	B8A	3101051010030	100pF	1155	R288	B6A	3001054730000	47kΩ
332	C447	B8B	3101051010030	100pF	1156	R289	B6A	3001050000000	0Ω
333	C448	B8B	3101051010030	100pF	1157	R290	B5C	3001051020000	1kΩ
334	C449	B8A	3101051010030	100pF	1158	R291	B6B	3001051220000	1.2kΩ
335	C45	T7F	3101051020010	1000pF	1159	R292	B6B	3001053300010	33Ω
336	C450	B8A	3101051010030	100pF	1160	R295	B5A	3001051020000	1kΩ
337	C451	B8A	3101051010030	100pF	1161	R296	B6B	3001051040000	100kΩ
338	C452	B8B	3101051010030	100pF	1162	R3	T8F	3001050000000	0Ω
339	C453	B8B	3101051010030	100pF	1163	R316	T6B	3001051030000	10kΩ
340	C454	B8B	3101051010030	100pF	1164	R319	T7B	3001053300010	33Ω
341	C455	B8B	3101051010030	100pF	1165	R320	B7B	3001053300010	33Ω
342	C456	B8B	3101051010030	100pF	1166	R322	T5B	3001051030000	10kΩ
343	C46	B7F	3101052210010	220pF	1167	R324	T7C	3001053300010	33Ω
344	C463	B8C	3101051010030	100pF	1168	R326	T6B	3001051030000	10kΩ
345	C465	B8C	3101051010030	100pF	1169	R327	B7C	3001053300010	33Ω
346	C466	B8C	3101051010030	100pF	1170	R337	T7C	3001051010000	100Ω
347	C467	B8C	3101051010030	100pF	1171	R338	T7B	3001051010000	100Ω
348	C468	B8C	3101051010030	100pF	1172	R339	T7C	3001051010000	100Ω
349	C469	B8A	3101051010030	100pF	1173	R346	B6C	3001051010000	100Ω
350	C47	T7F	3101051020010	1000pF	1174	R347	T7D	3001053300010	33Ω
351	C470	T8C	3101051010030	100pF	1175	R348	T8B	3001050000000	0Ω
352	C471	B7C	3101051040010	0.1uF	1176	R349	T8B	3001053300010	33Ω
353	C472	T8D	3101051010030	100pF	1177	R350	T8B	3001053300010	33Ω
354	C473	T8D	3101051040010	0.1uF	1178	R351	T6B	3001051030000	10kΩ
355	C476	T2C	3101054700010	47pF	1179	R352	T3C	3001053300010	33Ω
356	C477	T8C	3101051010030	100pF	1180	R353	T6A	3001051030000	10kΩ
357	C478	T8C	3101054700010	47pF	1181	R354	T6C	3001053300010	33Ω
358	C479	T8C	3101051010030	100pF	1182	R355	B6C	3001053300010	33Ω
359	C48	T8G	3101051020010	1000pF	1183	R356	B7A	3001050000000	0Ω
360	C480	T8C	3101051010030	100pF	1184	R357	T7C	3001053300010	33Ω
361	C483	B2B	3101051040010	0.1uF	1185	R358	B7B	3001051000000	10Ω
362	C484	T2C	3101062250000	2.2uF	1186	R360	B7B	3001051000000	10Ω
363	C485	B2C	3101051040010	0.1uF	1187	R361	B7B	3001051530000	15kΩ
364	C49	B8E	3101060900010	9pF	1188	R362	B7B	3001051530000	15kΩ
365	C5	B7F	3101051500080	15pF	1189	R363	T3A	3001050000000	0Ω
366	C50	T8G	3101051010030	100pF	1190	R364	T3A	3001050000000	0Ω
367	C500	B7D	3101053300000	33pF	1191	R365	T3C	3001051030000	10kΩ
368	C501	B7C	3101053310020	330pF	1192	R366	T3C	3001051030000	10kΩ
369	C502	B7C	3101053320010	3300pF	1193	R367	T6D	3001053300010	33Ω
370	C503	B7D	3101051520000	1500pF	1194	R368	T3C	3001051010000	100Ω
371	C504	B7D	3101058200000	82pF	1195	R369	T6D	3001053300010	33Ω
372	C506	B7C	3101051030020	0.01uF	1196	R370	T3C	3001051010000	100Ω
373	C507	B7C	3101051030020	0.01uF	1197	R371	T6D	3001053300010	33Ω
374	C508	B8C	3101071060010	10uF	1198	R372	T6D	3001051030000	10kΩ
375	C509	B7C	3101051040010	0.1uF	1199	R373	T3C	3001053300010	33Ω
376	C51	T8G	3101051040010	0.1uF	1200	R374	T7B	3001050000000	0Ω
377	C510	B7C	3101051010030	100pF	1201	R375	T7C	3001050000000	0Ω
378	C511	B7B	3101071060010	10uF	1202	R376	T6C	3001053300010	33Ω
379	C512	B7C	3101051040010	0.1uF	1203	R377	T6C	3001051030000	10kΩ
380	C513	B7C	3101051020010	1000pF	1204	R378	T7C	3001051030000	10kΩ
381	C514	B7C	3101061040090	0.1uF	1205	R379	T7C	3001051030000	10kΩ
382	C515	B7C	3101061040090	0.1uF	1206	R380	T7C	3001053300010	33Ω
383	C516	B7C	3101051010030	100pF	1207	R381	T7C	3001053300010	33Ω
384	C517	B7C	3101051010030	100pF	1208	R382	T7C	3001051030000	10kΩ
385	C518	B7C	3101051010030	100pF	1209	R383	B7C	3001051020010	1kΩ
386	C519	B6C	3101071060010	10uF	1210	R385	B7B	3001051030000	10kΩ
387	C52	B7E	3101052210010	220pF	1211	R386	B6C	3001051000000	10Ω
388	C520	B6D	3101071060010	10uF	1212	R387	T7B	3001053300010	33Ω
389	C526	B3A	3101051040010	0.1uF	1213	R388	T7C	3001051000000	10Ω
390	C527	T6C	3101051040010	0.1uF	1214	R390	T7B	3001051030000	10kΩ
391	C528	B2A	3101061050020	1uF	1215	R391	T8D	3001051030000	10kΩ
392	C53	T7G	3101051010030	100pF	1216	R392	T8D	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
393	C54	T7G	3101051020010	1000pF	1217	R393	T8D	3001051030000	10kΩ
394	C55	T7G	3101051040020	0.1uF	1218	R394	T7D	3001051030000	10kΩ
395	C6	B7F	3101052210010	220pF	1219	R395	T7D	3001054720000	4.7kΩ
396	C6105	B5J	3101051010030	100pF	1220	R396	T7D	3001054720000	4.7kΩ
397	C6106	B5j	3101061040010	0.1uF	1221	R398	T3A	3001051030000	10kΩ
398	C6107	B4J	3101052210010	220pF	1222	R399	T6A	3001050000000	0Ω
399	C6108	B4J	3101052210010	220pF	1223	R4	T7E	3001061010000	100Ω
400	C6115	B4J	3101051020010	1000pF	1224	R400	T8D	3001051030000	10kΩ
401	C6116	B4J	3101051010030	100pF	1225	R401	B7B	3001051520000	1.5kΩ
402	C6117	B5J	3210305150010	15nH	1226	R402	T6D	3001053300010	33Ω
403	C6125	B7I	3101054710010	470pF	1227	R403	T6C	3001051010000	100Ω
404	C6126	B7I	3101061050020	1uF	1228	R404	T6C	3001051010000	100Ω
405	C6127	B5J	3101051040010	0.1uF	1229	R406	T6C	3001051010000	100Ω
406	C6130	B5J	3101053340000	0.33uF	1230	R407	T8C	3001060000000	0Ω
407	C6131	B5J	3101052200010	22pF	1231	R408	T8C	3001053300010	33Ω
408	C6132	B5J	3101051200020	12pF	1232	R409	T8C	3001053300010	33Ω
409	C6133	B6J	3217105569000	5.6nH	1233	R410	T6C	3001051010000	100Ω
410	C6135	B5J	3101055600000	56pF	1234	R411	T6C	3001051010000	100Ω
411	C6136	B4J	3101055600000	56pF	1235	R412	T8C	3001053300010	33Ω
412	C6137	B7I	3101054710010	470pF	1236	R413	T7C	3001053300010	33Ω
413	C6138	B5J	3101051010030	100pF	1237	R414	T7A	3001051000000	10Ω
414	C6139	B5J	3101051020010	1000pF	1238	R415	T8C	3001053300010	33Ω
415	C6140	B6J	3101050500010	5pF	1239	R416	T8C	3001053300010	33Ω
416	C6141	B6J	3101050500010	5pF	1240	R420	T8C	3001053300010	33Ω
417	C6142	B6J	3101050500010	5pF	1241	R421	T6C	3001051010000	100Ω
418	C6143	B5J	3101055600000	56pF	1242	R422	T7B	3001051020010	1kΩ
419	C6145	B7I	3101051010030	100pF	1243	R423	T8C	3001053300010	33Ω
420	C6146	B6I	3101055600000	56pF	1244	R424	T7C	3001053300010	33Ω
421	C6147	B6I	3101050200010	2pF	1245	R425	T8C	3001053300010	33Ω
422	C6148	B6I	3101050200010	2pF	1246	R426	T8A	3001050000000	0Ω
423	C6149	B6J	3101050200010	2pF	1247	R427	T2B	3001051030000	10kΩ
424	C6150	B6I	3199052290000	2.2pF	1248	R428	T2B	3001054720000	4.7kΩ
425	C6151	B6J	3101053390050	3.3pF	1249	R429	T7C	3001051030000	10kΩ
426	C6153	B7J	3101051020010	1000pF	1250	R430	T8C	3001053300010	33Ω
427	C6154	B7J	3101055600000	56pF	1251	R431	T8C	3001053300010	33Ω
428	C6155	B5J	3101055600000	56pF	1252	R432	T8C	3001053300010	33Ω
429	C6156	B5J	3101055600000	56pF	1253	R433	T8C	3001053300010	33Ω
430	C6157	B4J	3101055600000	56pF	1254	R434	T8D	3001051010000	100Ω
431	C6158	B7I	3101061050020	1uF	1255	R435	T3C	3001054720000	4.7kΩ
432	C6159	B7I	3101065600040	56pF	1256	R436	T2B	3001054720000	4.7kΩ
433	C6160	B6J	3101051020010	1000pF	1257	R437	T2A	3001054720000	4.7kΩ
434	C6161	B6J	3101051020010	1000pF	1258	R438	B2A	3001051030000	10kΩ
435	C6162	B5J	3101055600000	56pF	1259	R439	B2A	3001051010000	100Ω
436	C6163	B5J	3101055600000	56pF	1260	R440	T6B	3001050000000	0Ω
437	C6164	B6J	3101055600000	56pF	1261	R441	B7A	3001051030000	10kΩ
438	C6165	B8I	3101050200010	2pF	1262	R442	T6A	3001051030000	10kΩ
439	C6166	B8I	3101051890050	1.8pF	1263	R443	T2A	3001051030000	10kΩ
440	C6167	B8I	3101053390010	3.3pF	1264	R445	T2A	3001051010000	100Ω
441	C6168	B8I	3101050590020	0.5pF	1265	R447	T2B	3001051030000	10kΩ
442	C6169	B8I	3101051590000	1.5pF	1266	R448	T2B	3001054720000	4.7kΩ
443	C6170	B8I	3101051590000	1.5pF	1267	R449	B2B	3001061520000	1.5kΩ
444	C6175	T8I	3101051010030	100pF	1268	R450	B2A	3001072720010	2.7kΩ
445	C6176	T8I	3101051030020	0.01uF	1269	R451	B2B	3001051030000	10kΩ
446	C6178	B6I	3101055600000	56pF	1270	R452	B2B	3001051030000	10kΩ
447	C6179	T8I	3101050900000	9pF	1271	R453	T5B	3001051030000	10kΩ
448	C6180	T8I	3001060000000	0Ω	1272	R454	T2A	3001051030000	10kΩ
449	C6181	T8H	3101051040010	0.1uF	1273	R455	T2A	3001051040010	100kΩ
450	C6184	T7H	3101051040010	0.1uF	1274	R456	T8C	3001053300010	33Ω
451	C6185	T7H	3101051040010	0.1uF	1275	R457	T8C	3001053300010	33Ω
452	C6186	T7H	3101051040010	0.1uF	1276	R458	T8C	3001051010000	100Ω
453	C6189	T7I	3101051040010	0.1uF	1277	R459	T8D	3001051010000	100Ω
454	C6190	T7H	3101051040010	0.1uF	1278	R460	T7D	3001051020010	1kΩ
455	C6191	T7I	3101051040010	0.1uF	1279	R461	B2C	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
456	C6192	T7H	3101061050020	1uF	1280	R462	B3B	3001051030000	10kΩ
457	C6196	B7J	3101055600000	56pF	1281	R463	B3B	3001051030000	10kΩ
458	C6197	B7I	3101050200010	2pF	1282	R464	B2B	3001051030000	10kΩ
459	C6198	T8I	3101051500020	15pF	1283	R465	B2C	3001051030000	10kΩ
460	C6199	B6J	3101051010030	100pF	1284	R466	B2C	3001051030000	10kΩ
461	C6200	B6I	3101050300000	3pF	1285	R467	B2C	3001053300010	33Ω
462	C6201	B6J	3101050400010	4pF	1286	R468	T2B	3001051030000	10kΩ
463	C6202	B6I	3101051020010	1000pF	1287	R469	T2C	3001051030000	10kΩ
464	C6203	B7I	3101055600000	56pF	1288	R470	T2B	3001051030000	10kΩ
465	C6205	B8J	3101050390000	0.3pF	1289	R471	T2B	3001051030000	10kΩ
466	C6207	B7J	3101055600000	56pF	1290	R472	T2B	3001051030000	10kΩ
467	C6208	T7I	3101051030020	0.01uF	1291	R473	B2C	3001053300010	33Ω
468	C6209	B8I	3101055600000	56pF	1292	R474	B2C	3001053300010	33Ω
469	C6224	B7I	3101063900060	39pF	1293	R475	B2C	3001051030000	10kΩ
470	C6226	B8I	3101061000000	10pF	1294	R476	T5B	3001054720000	4.7kΩ
471	C6227	B8H	3210306479000	4.7nH	1295	R477	B2C	3101051050000	1uF
472	C6228	B8I	3101060200010	2pF	1296	R479	T6C	3001053300010	33Ω
473	C6229	B7I	3101063920000	3900pF	1297	R481	B5B	3001051030000	10kΩ
474	C6230	B7I	3101063900060	39pF	1298	R482	B6B	3001051030000	10kΩ
475	C6231	B7I	3101063900060	39pF	1299	R483	B6B	3001051030000	10kΩ
476	C6232	B8I	3101061040020	0.1uF	1300	R484	T5B	3001054720000	4.7kΩ
477	C6233	B7I	3101056800000	68pF	1301	R485	B7C	3001053300010	33Ω
478	C6234	B4J	3101056800000	68pF	1302	R486	B7C	3001053300010	33Ω
479	C6236	B8I	3101053900000	39pF	1303	R487	T7A	3001053300010	33Ω
480	C64	T8F	3110071040000	0.1uF	1304	R488	T8B	3001054720000	4.7kΩ
481	C66	T8F	3110071040000	0.1uF	1305	R489	T7A	3001053300010	33Ω
482	C67	T8F	3110071040000	0.1uF	1306	R490	T7A	3001053300010	33Ω
483	C69	T7F	3110071040000	0.1uF	1307	R491	B7C	3001053300010	33Ω
484	C7	B7F	3101051040020	0.1uF	1308	R492	T7A	3001053300010	33Ω
485	C70	T7G	3110071040000	0.1uF	1309	R493	T2A	3001061020010	1kΩ
486	C702	T6H	3101051030020	0.01uF	1310	R495	B8C	3001053300010	33Ω
487	C703	T6H	3101060300010	3pF	1311	R496	B3C	3001054720000	4.7kΩ
488	C704	T6H	3101052210010	220pF	1312	R497	T2C	3001051030000	10kΩ
489	C705	T6H	3101051040010	0.1uF	1313	R498	B7C	3001053300010	33Ω
490	C706	T6H	3101054710010	470pF	1314	R499	B7B	3001054720000	4.7kΩ
491	C707	T6H	3101051040010	0.1uF	1315	R5	T8F	3001050000000	0Ω
492	C708	T6H	3101051040010	0.1uF	1316	R500	B7D	3001051040000	100kΩ
493	C71	B8F	3101071050240	1uF	1317	R501	B7C	3001051030000	10kΩ
494	C710	T6H	3101051020010	1000pF	1318	R502	B7C	3001051020000	1kΩ
495	C712	T6H	3101051040010	0.1uF	1319	R503	B7C	3001051020000	1kΩ
496	C713	T6H	3101053920000	3900pF	1320	R504	B7C	3001051020000	1kΩ
497	C714	T6G	3101051000020	10pF	1321	R505	B7C	3001050000000	0Ω
498	C715	T6H	3101064740000	0.47uF	1322	R506	B7C	3001051030000	10kΩ
499	C716	T6I	3101061810060	180pF	1323	R507	B7C	3001050000000	0Ω
500	C717	B6H	3101054710010	470pF	1324	R509	B7C	3001051030000	10kΩ
501	C718	B6H	3101051050160	1uF	1325	R510	B7C	3001051030000	10kΩ
502	C719	T5G	3101051050000	1uF	1326	R511	B7B	3001054720000	4.7kΩ
503	C72	T7F	3110071040000	0.1uF	1327	R512	B7C	3001051030000	10kΩ
504	C720	T6H	3101051040010	0.1uF	1328	R513	B7C	3001051040000	100kΩ
505	C721	T6H	3101051010030	100pF	1329	R514	B7C	3001051040000	100kΩ
506	C722	T6H	3101051010030	100pF	1330	R515	T7A	3001053300010	33Ω
507	C723	B6H	3101051500020	15pF	1331	R516	T7A	3001053300010	33Ω
508	C724	B6H	3101051800010	18pF	1332	R517	T7B	3001053300010	33Ω
509	C725	B6H	3101051030020	0.01uF	1333	R518	T7A	3001053300010	33Ω
510	C726	B6H	3101074750000	4.7uF	1334	R519	T7B	3001053300010	33Ω
511	C727	B6H	3101054710010	470pF	1335	R520	T7B	3001053300010	33Ω
512	C728	T6H	3101051020010	1000pF	1336	R521	T7B	3001053300010	33Ω
513	C729	T6H	3101051040010	0.1uF	1337	R522	T7A	3001053300010	33Ω
514	C730	B6H	3101052200010	22pF	1338	R523	B8B	3001053300010	33Ω
515	C731	B6H	3101050600010	6pF	1339	R524	B8B	3001053300010	33Ω
516	C732	B6H	3101052200010	22pF	1340	R525	B8B	3001053300010	33Ω
517	C733	T6H	3101051040010	0.1uF	1341	R526	B8B	3001053300010	33Ω
518	C734	B6H	3101053000010	30pF	1342	R527	B8B	3001053300010	33Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
519	C735	T5H	3101051040010	0.1uF	1343	R528	B7C	3001056830000	68kΩ
520	C736	T5H	3101051030020	0.01uF	1344	R529	B7C	3001053330000	33kΩ
521	C737	T5H	3101051040010	0.1uF	1345	R530	T8D	3001051030000	10kΩ
522	C738	T5I	3101051010030	100pF	1346	R531	T8D	3001051030000	10kΩ
523	C739	T5I	3101051010030	100pF	1347	R532	T8C	3001051030000	10kΩ
524	C74	T7F	3110071040000	0.1uF	1348	R533	B8B	3001053300010	33Ω
525	C740	T5H	3101051040010	0.1uF	1349	R534	B8C	3001051030000	10kΩ
526	C741	T5H	3101051040010	0.1uF	1350	R535	B8C	3001051030000	10kΩ
527	C742	T6H	3101061050020	1uF	1351	R536	T6C	3001050000000	0Ω
528	C743	T6H	3101054700010	47pF	1352	R538	T7C	3001051030000	10kΩ
529	C744	B5H	3101051040010	0.1uF	1353	R539	T7C	3001051030000	10kΩ
530	C745	B5H	3101053300000	33pF	1354	R540	T8D	3001051030000	10kΩ
531	C746	T5I	3101054710010	470pF	1355	R541	T8D	3001051030000	10kΩ
532	C748	B5H	3101061040010	0.1uF	1356	R543	T7C	3001051030000	10kΩ
533	C749	T6G	3101052210010	220pF	1357	R544	B5C	3001050000000	0Ω
534	C75	T8F	3101051020010	1000pF	1358	R545	B7D	3001053300010	33Ω
535	C750	B5H	3101071050240	1uF	1359	R546	B3C	3001051010000	100Ω
536	C751	T6G	3101051000020	10pF	1360	R547	B2B	3001051010000	100Ω
537	C752	T5I	3101074750000	4.7uF	1361	R548	B2B	3001051010000	100Ω
538	C753	T8B	3101051040060	0.1uF	1362	R549	B3C	3001051010000	100Ω
539	C754	T4I	3101061050020	1uF	1363	R550	B2C	3001051010000	100Ω
540	C755	T6I	3101074750000	4.7uF	1364	R551	B2B	3001051010000	100Ω
541	C756	T6I	3101051040010	0.1uF	1365	R552	B7D	3001053300010	33Ω
542	C76	T7E	3101052000020	20pF	1366	R553	B7D	3001053300010	33Ω
543	C763	T5H	3101051010030	100pF	1367	R554	T8D	3001051020010	1kΩ
544	C764	T5H	3101051010030	100pF	1368	R555	T8D	3001051030000	10kΩ
545	C765	T5H	3101051010030	100pF	1369	R556	T2C	3001051010000	100Ω
546	C766	T5H	3101051010030	100pF	1370	R557	T2B	3001051010000	100Ω
547	C767	T6H	3101051010030	100pF	1371	R558	B2C	3001053330010	33kΩ
548	C769	T6H	3101051010030	100pF	1372	R559	B2B	3001053330010	33kΩ
549	C77	T7E	3101052000020	20pF	1373	R560	B2B	3001053330010	33kΩ
550	C78	T8G	3110071040000	0.1uF	1374	R561	B2C	3001053330010	33kΩ
551	C79	T8F	3101051020010	1000pF	1375	R562	B2C	3001053330010	33kΩ
552	C80	T7E	3101051030020	0.01uF	1376	R563	T2B	3001053330010	33kΩ
553	C801	B2F	3101081020010	1000pF	1377	R564	B7C	3001050000000	0Ω
554	C802	B1F	3101063320000	3300pF	1378	R565	B7C	3001050000000	0Ω
555	C803	B2F	3101063900060	39pF	1379	R566	B7C	3001050000000	0Ω
556	C804	B1F	3101092260010	22uF	1380	R567	B7C	3001050000000	0Ω
557	C807	T5E	3101081060010	10uF	1381	R569	T2C	3001051030000	10kΩ
558	C808	B6E	3101065600040	56pF	1382	R570	T2C	3001064720000	4.7kΩ
559	C809	B5E	3101062210000	220pF	1383	R571	T6C	3001051030000	10kΩ
560	C811	B5E	3101061040090	0.1uF	1384	R573	T2C	3001054720000	4.7kΩ
561	C812	T3G	3101373990000	3.9pF	1385	R574	T2C	3001064720000	4.7kΩ
562	C814	B6E	3101065600040	56pF	1386	R575	T2B	3001053330000	33kΩ
563	C818	B6E	3101064700000	47pF	1387	R576	T2C	3001053330000	33kΩ
564	C819	T3F	3101080590000	0.5pF	1388	R6	T8F	3001050000000	0Ω
565	C82	T8E	3101051020010	1000pF	1389	R6004	T5C	3001062230030	22kΩ
566	C820	T3F	3101373990000	3.9pF	1390	R6104	B4J	3001066810000	680Ω
567	C822	B6E	3101063900060	39pF	1391	R6105	B4J	3101068200030	82pF
568	C825	B2F	3101061800000	18pF	1392	R6106	B5J	3001051000000	10Ω
569	C826	B5E	3101060300010	3pF	1393	R6107	B7I	3001061000000	10Ω
570	C827	T3I	3101376800000	68pF	1394	R6108	B5J	3001056820000	6.8kΩ
571	C829	B5E	3101061040010	0.1uF	1395	R6109	B5I	3001072210000	220Ω
572	C83	T7E	3101051020010	1000pF	1396	R6110	B5J	3001052720000	2.7kΩ
573	C830	T4H	3101370300000	3pF	1397	R6112	B5J	3001061820000	1.8kΩ
574	C832	T3G	3101080590000	0.5pF	1398	R6113	B6J	3001051220000	1.2kΩ
575	C836	T3I	3101370590000	0.5pF	1399	R6116	B5J	3001051000000	10Ω
576	C838	T4I	3101370100000	1pF	1400	R6118	T8I	3001055100010	51Ω
577	C84	T8F	3110071040000	0.1uF	1401	R6121	T6I	3001050000000	0Ω
578	C840	T5F	3101060500010	5pF	1402	R6122	T7J	3001050000000	0Ω
579	C843	B5E	3101063300000	33pF	1403	R6124	B7H	3001054790000	4.7Ω
580	C845	B5E	3101062210000	220pF	1404	R6125	B7H	3001052710010	270Ω
581	C846	T5F	3101060300010	3pF	1405	R6126	B7H	3001052710010	270Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
582	C847	T2J	3212106829000	8.2nH	1406	R6127	T7H	3001055120030	5.1kΩ
583	C848	T3J	3101064700000	47pF	1407	R6128	T7H	3001055100010	51Ω
584	C849	B2H	3101064710000	470pF	1408	R6129	T7I	3001053030000	30kΩ
585	C85	T7E	3101051040010	0.1uF	1409	R6130	T7I	3001053030000	30kΩ
586	C850	B1H	3101995600000	56pF	1410	R6132	T7H	3001053310010	330Ω
587	c852	T4J	3101061010010	100pF	1411	R6133	T7H	3001054720000	4.7kΩ
588	C853	T5E	3101062700010	27pF	1412	R6134	T7H	3001052030000	20kΩ
589	C855	T4G	3101060300010	3pF	1413	R6135	T7H	3001051220000	1.2kΩ
590	C856	T1F	3101370200000	2pF	1414	R6136	T8H	3001055630000	56kΩ
591	C858	T2I	3001062710000	270Ω	1415	R6137	B6J	3001051000000	10Ω
592	C86	T8E	3101051040010	0.1uF	1416	R6138	B6J	3001051030000	10kΩ
593	C861	T4J	3101068290040	8.2pF	1417	R6140	B6J	3001051030000	10kΩ
594	C865	T6E	3101060300010	3pF	1418	R6141	B6I	3001051000000	10Ω
595	C868	B5E	3101061040010	0.1uF	1419	R6142	B7I	3001061030010	10kΩ
596	C87	T8F	3101051040010	0.1uF	1420	R6143	B5J	3001055610010	560Ω
597	C872	T6F	3101061000000	10pF	1421	R6144	B7J	3001051000000	10Ω
598	C873	T5F	3101061590010	1.5pF	1422	R6145	B8I	3001061510000	150Ω
599	C877	T6E	3101061030010	0.01uF	1423	R6147	B7I	3101060700020	7pF
600	C878	T6G	3101062210000	220pF	1424	R6148	B7I	3001063030020	30kΩ
601	C879	T2I	3101370100000	1pF	1425	R701	T5I	3001055100010	51Ω
602	C88	T8F	3110071040000	0.1uF	1426	R703	T6H	3001052220010	2.2kΩ
603	C880	T6E	3101061040010	0.1uF	1427	R704	T6H	3001055610010	560Ω
604	C881	T6F	3003061040000	100kΩ	1428	R705	T6H	3001051030000	10kΩ
605	C883	B4I	3101053900000	39pF	1429	R707	B6H	3001051810010	180Ω
606	C884	T2J	3101370200000	2pF	1430	R708	B6H	3001054720000	4.7kΩ
607	C885	B2F	3101081060010	10uF	1431	R709	B6H	3001061030010	10kΩ
608	C887	B5F	3101061020000	1000pF	1432	R710	B6H	3001068220000	8.2kΩ
609	C888	B2F	3101063900060	39pF	1433	R711	T6H	3001053300010	33Ω
610	C889	B2F	3101071010000	100pF	1434	R712	B6H	3001052710010	270Ω
611	C89	T8E	3101071060000	10uF	1435	R713	T5H	3001051040000	100kΩ
612	C890	B3I	3101053900000	39pF	1436	R714	B5H	3001051820000	1.8kΩ
613	C891	T3I	3101051210000	120pF	1437	R715	T5H	3001053300010	33Ω
614	C892	B5F	3101063900060	39pF	1438	R716	B5H	3001055620000	5.6kΩ
615	C893	T2H	3101371010000	100pF	1439	R717	T6H	3001053300010	33Ω
616	C894	B4H	3101051830020	0.018uF	1440	R718	B6H	3001055110000	510Ω
617	C895	B4I	3101053900000	39pF	1441	R719	T5H	3001053300010	33Ω
618	C896	B4I	3101052210010	220pF	1442	R720	T5H	3001053300010	33Ω
619	C897	B4J	3101052210010	220pF	1443	R721	T5H	3001053300010	33Ω
620	C898	B5C	3101063900060	39pF	1444	R724	T5I	3001060000000	0Ω
621	C899	B3J	3101051210000	120pF	1445	R725	T6H	3001053300010	33Ω
622	C9	T7G	3101061290020	1.2pF	1446	R727	T5H	3001064730000	47kΩ
623	C90	T8E	3101051020010	1000pF	1447	R728	T4H	3001064730000	47kΩ
624	C900	T5C	3101061050020	1uF	1448	R802	B6E	3001062730010	27kΩ
625	C901	T5C	3101061050020	1uF	1449	R803	B5E	3001065610000	560Ω
626	C902	T2E	3101062200010	22pF	1450	R809	B6E	3001061800000	18Ω
627	C905	T2A	3101061050020	1uF	1451	R810	B6E	3001062710000	270Ω
628	C906	T3A	3101061050020	1uF	1452	R811	B6E	3001063330010	33kΩ
629	C907	T4C	3101051040010	0.1uF	1453	R814	B6E	3001062710000	270Ω
630	C908	T5B	3101061050020	1uF	1454	R815	T2J	3001082730000	27kΩ
631	C909	B2G	3101061020000	1000pF	1455	R816	T2J	3001071510010	150Ω
632	C91	T8G	3110071040000	0.1uF	1456	R817	T2J	3001071510010	150Ω
633	C910	T4H	3101051020010	1000pF	1457	R819	T3I	3001071510010	150Ω
634	C911	T3A	3101051040010	0.1uF	1458	R820	T3J	3001071510010	150Ω
635	C912	T5C	3101072250100	2.2uF	1459	R821	B2H	3001113300000	33Ω
636	C913	B2G	3101061830000	0.018uF	1460	R822	B3J	3001062700000	27Ω
637	C914	T5D	3103994760180	47uF	1461	R823	T3J	3212106829000	8.2nH
638	C915	T4C	3101082260020	22uF	1462	R824	T5E	3001060000000	0Ω
639	C916	T2E	3101063320000	3300pF	1463	R825	B2G	3001113300000	33Ω
640	C917	T5D	3101071060010	10uF	1464	R826	T6F	3101061800000	18pF
641	C918	T5D	3101052200010	22pF	1465	R828	T6F	3101061800000	18pF
642	C919	T5C	3101072260000	10uF	1466	R829	T6F	3001062220000	2.2kΩ
643	C920	T5C	3101061030010	0.01uF	1467	R830	B5E	3001076800000	68Ω
644	C921	T5C	3101051040010	0.1uF	1468	R831	B4H	3001052220000	2.2kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
645	C922	T5C	3101055600000	56pF	1469	R832	T3F	3001113300000	33Ω
646	C923	B4D	3101061050020	1uF	1470	R835	T6E	3001062220000	2.2kΩ
647	C924	B4D	3101061050020	1uF	1471	R837	B4I	3001050000000	0Ω
648	C925	B4D	3101061050020	1uF	1472	R838	B5I	3001052230010	22kΩ
649	C926	B7D	3101071060010	10uF	1473	R839	B4H	3001054720000	4.7kΩ
650	C927	T4D	3101061040010	0.1uF	1474	R840	T3J	3001076800000	68Ω
651	C928	T5H	3101081060010	10uF	1475	R841	B4H	3001056830000	68kΩ
652	C929	T5D	3101071060010	10uF	1476	R842	B4I	3001051230000	12kΩ
653	C93	T8E	3101051020010	1000pF	1477	R843	T6G	3001064320000	4.3kΩ
654	C930	B2F	3101061830000	0.018uF	1478	R844	T6G	3001065620010	5.6kΩ
655	C931	T2E	3101063900060	39pF	1479	R845	T6E	3003061040000	100kΩ
656	C932	T5C	3101062250000	2.2uF	1480	R846	T6E	3001064320000	4.3kΩ
657	C933	B2A	3101092260010	22uF	1481	R847	B4H	3001054730000	47kΩ
658	C934	B5D	3101062250000	2.2uF	1482	R849	B5I	3001052220010	2.2kΩ
659	C935	B5D	3101061040010	0.1uF	1483	R850	B3J	3001062010000	200Ω
660	C936	T5D	3101061040010	0.1uF	1484	R851	B4J	3001062010000	200Ω
661	C937	T7D	3101051020010	1000pF	1485	R852	T2I	3101065690000	5.6pF
662	C94	T8F	3110071040000	0.1uF	1486	R853	T3I	3101060400010	4pF
663	C940	B2F	3101066800000	68pF	1487	R854	B4I	3001055630000	56kΩ
664	C941	T7D	3101051540000	0.15uF	1488	R855	B5G	3001061020010	1kΩ
665	C942	T4C	3101053310020	330pF	1489	R856	B5F	3001061020010	1kΩ
666	C943	B1F	3101061800000	18pF	1490	R857	B4I	3001050000000	0Ω
667	C944	B2B	3101051020010	1000pF	1491	R858	B5G	3001062030000	20kΩ
668	C945	B2A	3101081060010	10uF	1492	R859	B5F	3001061020010	1kΩ
669	C946	T6D	3101061050020	1uF	1493	R863	B3I	3001050000000	0Ω
670	C947	T5B	3101051040010	0.1uF	1494	R864	B5J	3001054740010	470kΩ
671	C948	T4B	3101061040010	0.1uF	1495	R865	B4H	3001053930000	39kΩ
672	C949	B5I	3101058200000	82pF	1496	R866	B4I	3001052220010	2.2kΩ
673	C95	T8E	3101051030020	0.01uF	1497	R867	B5G	3001058220000	8.2kΩ
674	C950	T2D	3101051040010	0.1uF	1498	R869	B4H	3001051830000	18kΩ
675	C951	T4C	3110992270000	220uF	1499	R870	B4H	3001051030000	10kΩ
676	C952	T3C	3101061030010	0.01uF	1500	R872	B4H	3001051840000	180kΩ
677	C953	B4J	3001051830000	18kΩ	1501	R874	B4I	3001051020000	1kΩ
678	C955	T3D	3101051040010	0.1uF	1502	R875	B4I	3001053330000	33kΩ
679	C956	T3D	3101081060010	10uF	1503	R876	B4J	3001055630000	56kΩ
680	C957	B3A	3101061040010	0.1uF	1504	R877	B5E	3001054730000	47kΩ
681	C958	T3D	3101051040010	0.1uF	1505	R880	B5E	3001074720010	4.7kΩ
682	C959	B5I	3101061040010	0.1uF	1506	R881	B5E	3001074720010	4.7kΩ
683	C96	T7F	3101051020010	1000pF	1507	R882	B4I	3001052240000	220kΩ
684	C960	T5C	3101051020010	1000pF	1508	R883	B4J	3001055630000	56kΩ
685	C962	B6D	3101051050000	1uF	1509	R884	B4J	3001054790010	4.7kΩ
686	C963	B7D	3101061040010	0.1uF	1510	R885	B4I	3001051030000	10kΩ
687	C964	B3J	3101060700020	7pF	1511	R886	B4I	3001051830010	18kΩ
688	C965	B7D	3101062250000	2.2uF	1512	R887	B4I	3001058210000	820Ω
689	C966	T5B	3101061050020	1uF	1513	R889	B5C	3001050000000	0Ω
690	C967	B3A	3101051040010	0.1uF	1514	R890	B4H	3001053320000	3.3kΩ
691	C968	B3B	3101051040010	0.1uF	1515	R891	B4I	3001052720010	2.7kΩ
692	C969	B3B	3101051040010	0.1uF	1516	R892	B3I	3001058230000	82kΩ
693	C97	T7F	3101056800000	68pF	1517	R893	B4I	3001052030000	20kΩ
694	C972	B4J	3101053900000	39pF	1518	R894	B4I	3001052220000	2.2kΩ
695	C973	T4H	3101992490000	2.4pF	1519	R895	B4H	3001055630000	56kΩ
696	C974	T3G	3101375690000	5.6pF	1520	R896	T6G	3001056820000	6.8kΩ
697	C975	T3F	3101375690000	5.6pF	1521	R897	B5J	3001054740010	470kΩ
698	C978	T7D	3101051040010	0.1uF	1522	R898	B5J	3001054740010	470kΩ
699	C979	T4E	3101062700010	27pF	1523	R899	B5I	3001054740010	470kΩ
700	C98	T7E	3101056800000	68pF	1524	R9	T7E	3001050000000	0Ω
701	C980	T3D	3101081060010	10uF	1525	R902	B5J	3001050000000	0Ω
702	C981	T4D	3101081060010	10uF	1526	R904	B5C	3001050000000	0Ω
703	C982	T2H	3101370200000	2pF	1527	R905	B5C	3001053330000	33kΩ
704	C984	B5G	3101061020000	1000pF	1528	R906	T5H	3001064730000	47kΩ
705	C985	B5F	3101063900060	39pF	1529	R907	B5F	3001062030000	20kΩ
706	C986	B5F	3101061020000	1000pF	1530	R908	T5H	3001054720000	4.7kΩ
707	C987	B5F	3101063900060	39pF	1531	R910	T6D	3001054720000	4.7kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
708	C989	T5E	3101063900060	39pF	1532	R911	T5C	3001066830020	68kΩ
709	C99	T7F	3101052710000	270pF	1533	R913	T6D	3001054720000	4.7kΩ
710	C990	T5G	3101060500010	5pF	1534	R914	B5F	3001061020010	1kΩ
711	C992	T3I	3101371590000	1.5pF	1535	R916	B2G	3001081000000	10Ω
712	C994	T3H	3101375690000	5.6pF	1536	R917	T5D	3001053340010	330kΩ
713	C995	T4J	3101062490000	2.4pF	1537	R919	T5D	3001051540000	150kΩ
714	C998	T5G	3101060300010	3pF	1538	R924	B4D	3001061020010	1kΩ
715	C999	T4F	3101060300010	3pF	1539	R925	T6D	3001064720000	4.7kΩ
716	D100	T8E	3303030800020	Switching diode	1540	R929	B3A	3001051010000	100Ω
717	D101	B8G	3304010100220	Varactor	1541	R930	B3A	3001051530010	15kΩ
718	D102	B8G	3304010100220	Varactor	1542	R931	B3A	3001054730000	47kΩ
719	D105	B8G	3304010100220	Varactor	1543	R932	T7D	3001064720000	4.7kΩ
720	D106	B8G	3304010100220	Varactor	1544	R933	B3A	3001052210000	220Ω
721	D107	B8F	3304010100220	Varactor	1545	R934	B3A	3001055130010	51kΩ
722	D108	B8F	3304010100220	Varactor	1546	R937	B3B	3001054720000	4.7kΩ
723	D109	B8E	3304010100220	Varactor	1547	R938	B3B	3001051030000	10kΩ
724	D110	B8E	3304010100220	Varactor	1548	R940	B3B	3001052230010	22kΩ
725	D111	B8G	3304010100220	Varactor	1549	R941	B3B	3001051020010	1kΩ
726	D112	B8G	3304010100220	Varactor	1550	R942	B3B	3001054720000	4.7kΩ
727	D113	B8G	3304010100220	Varactor	1551	R943	B3B	3001064730000	47kΩ
728	D114	B8G	3304010100220	Varactor	1552	R944	B3B	3001052230010	22kΩ
729	D115	B8F	3304010100220	Varactor	1553	R945	B3B	3001051030000	10kΩ
730	D116	B8G	3304010100220	Varactor	1554	R946	B3B	3001061020010	1kΩ
731	D117	B8G	3304010100220	Varactor	1555	R947	B3B	3001051020010	1kΩ
732	D120	B8E	3304010100220	Varactor	1556	R949	B2A	3001054730000	47kΩ
733	D121	B8F	3304010100220	Varactor	1557	R950	T3C	3001051030000	10kΩ
734	D122	B8F	3304010100220	Varactor	1558	R951	T5D	3001110100000	1Ω
735	D125	B8E	3304010100220	Varactor	1559	R952	B3A	3001062430000	24kΩ
736	D126	B8E	3304010100220	Varactor	1560	R953	B3D	3001061000000	10Ω
737	D128	B4I	3303030100010	Switching diode	1561	R954	B7D	3001061020010	1kΩ
738	D129	B5C	3303030800020	Switching diode	1562	R955	B2A	3001051840000	180kΩ
739	D230	B5C	3310240000000	ESD protection diode	1563	R956	B2A	3001051840000	180kΩ
740	D231	B5C	3310240000000	ESD protection diode	1564	R957	B2A	3001051020010	1kΩ
741	D232	B5D	3310240000000	ESD protection diode	1565	R958	B3D	3001066810000	680Ω
742	D233	T2B	3310240000000	ESD protection diode	1566	R959	B2A	3001054730000	47kΩ
743	D234	T6C	3310240200000	ESD protection diode	1567	R961	B3D	3001083310010	330Ω
744	D235	B3A	3302031100010	Zener diode	1568	R962	T3C	3001060000000	0Ω
745	D236	T6C	3310240200000	ESD protection diode	1569	R963	T3C	3001060000000	0Ω
746	D237	T5B	3310990000090	ESD protection diode	1570	R964	T3C	3001052220010	2.2kΩ
747	D238	T2C	3310240000000	ESD protection diode	1571	R965	T3C	3001060000000	0Ω
748	D239	T5B	3310240200000	ESD protection diode	1572	R966	B3D	3001161510010	150Ω
749	D240	T2A	3310240000000	ESD protection diode	1573	R968	T3C	3001052220000	2.2kΩ
750	D241	B3A	3302031100010	Zener diode	1574	R969	T2C	3001064730000	47kΩ
751	D242	T2C	3310240000000	ESD protection diode	1575	R970	T2C	3001061020010	1kΩ
752	D243	T2C	3310240000000	ESD protection diode	1576	R971	T3C	3099052741000	2.74kΩ
753	D402	T2C	3310240000000	ESD protection diode	1577	R972	T3D	3001062220000	2.2kΩ
754	D403	T2A	3310240000000	ESD protection diode	1578	R974	B3A	3001061020010	1kΩ
755	D404	T2B	3310240000000	ESD protection diode	1579	R975	B3A	3001052030000	20kΩ
756	D405	T2B	3310240000000	ESD protection	1580	R976	B3A	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
				diode					
757	D406	T2B	3310240000000	ESD protection diode	1581	R977	B3A	3001050000000	0Ω
758	D407	T8B	3399040600010	ESD protection diode	1582	R978	B3A	3001051020010	1kΩ
759	D408	B8C	3399040600010	ESD protection diode	1583	R982	T3C	3001051040000	100kΩ
760	D409	T2C	3310240000040	ESD protection diode	1584	R983	T7D	3001050000000	0Ω
761	D410	B2B	3310240000040	ESD protection diode	1585	R984	B3A	3001052210000	220Ω
762	D450	T2C	3699037000010	USB protection IC	1586	RN230	B6C	3005051010010	100Ω
763	D601	T7B	3001061030010	10kΩ	1587	RN500	B7B	3005051010010	100Ω
764	D6101	B4J	3399990004910	Limiter diode	1588	RT804	B3G	3003061040000	100kΩ
765	D6104	B4J	3399030000010	PIN diode	1589	Sinker		6202720000010	PA heat sink pad
766	D701	B6G	3304010100220	Varactor	1590	U100	T7E	3604019000000	PLL IC
767	D702	B5H	3304010100180	Varactor	1591	U101	T8F	3616059000000	Switch IC
768	D801	T2H	3303990000020	Switching diode	1592	U102	T8F	3616059000000	Switch IC
769	D802	T4I	3303990000020	Switching diode	1593	U105	B7G	3609003999000	MMIC amplifier
770	D803	B3J	3303030300000	Schottky diode	1594	U201	B5B	3602017000030	Audio amplification IC
771	D804	T3I	3303030300000	Schottky diode	1595	U231	B6C	3613010000000	Baseband IC
772	D805	B4H	3302030500030	Zener diode	1596	U232	T6B	3612024000020	Memory
773	D900	T2D	3399100000010	TVS diode	1597	U233	T7A	3612016000000	Memory
774	D902	T5C	3301100300030	Rectifier diode	1598	U235	B5C	3605010000020	Operational amplifier
775	D906	B3B	3399030000010	PIN diode	1599	U236	B4C	3605010000020	Operational amplifier
776	D907	B3B	3399030000010	PIN diode	1600	U237	B6B	3616010000000	Switch IC
777	D909	B3A	3399030000010	PIN diode	1601	U238	B6B	3605008005070	Operational amplifier
778	D910	B2A	3302030500010	Zener diode	1602	U302	T6B	3610010000010	MCU
779	D911	B2A	3303240000000	Switching diode	1603	U326	T3B	3625999000060	GPS module
780	D912	T7C	3311240100000	Schottky diode	1604	U327	T6D	3607010000400	Logic IC
781	D913	T7C	3311240100000	Schottky diode	1605	U328	B2C	3607010000400	Logic IC
782	D914	B3A	3399030000010	PIN diode	1606	U401	B2B	3616010000150	Switch IC
783	D915	T3C	3303010500290	Switching diode	1607	U403	T6J	3609014000010	Mixer
784	D916	T3A	3303010500090	Switching diode	1608	U500	B7C	3606010000010	D/A conversion IC
785	D917	T3D	3302030500030	Zener diode	1609	U6103	B4J	3616003000000	Switch IC
786	D918	T3C	3302030500030	Zener diode	1610	U6105	B5J	3616003000000	Switch IC
787	D919	T3A	3303010500090	Switching diode	1611	U6106	B7J	3616003000000	Switch IC
788	D920	T3A	3302031100010	Zener diode	1612	U6107	T7F	3616003000000	Switch IC
789	F900	B3B	4002000000390	Fuse	1613	U6108	B6I	3616003000000	Switch IC
790	J400	T8C	5201020200030	Board-to-board connector	1614	U701	T6H	3603999000000	IF IC
791	J404	B8C	5206040200010	FFC connector	1615	U702	T5I	3608015000180	Power management IC
792	L1	B8F	3213212332000	3.3uH	1616	U703	T4I	3608015000060	Power management IC
793	L10	T7H	3210306339000	3.3nH	1617	U801	B4H	3605026000020	Operational amplifier
794	L103	B7H	3217607471000	470nH	1618	U802	B4H	3605002054590	Operational amplifier
795	L105	B8G	3237199080000	Air-core coil 8nH	1619	U804	B4J	3605008005070	Operational amplifier
796	L106	B8G	3217607330010	33nH	1620	U900	T5C	3608015000210	Power management IC
797	L107	B7G	3217607471000	470nH	1621	U901	T3A	3608015000210	Power management IC
798	L108	B8G	3217607471000	470nH	1622	U902	T5C	3608010000350	Power management IC
799	L11	T7G	3210306339000	3.3nH	1623	U903	T5B	3608015000170	Power management IC
800	L110	B7G	3217607471000	470nH	1624	U905	B4D	3608015000060	Power

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
									management IC
801	L112	B8G	3217607471000	470nH	1625	U906	T7D	3609010000210	Reset IC
802	L114	B8G	3237199080000	Air-core coil 8nH	1626	U909	B5D	3608015000180	Power management IC
803	L115	B8G	3217607330010	33nH	1627	U910	T7D	3626015000010	Reset IC
804	L116	B7G	3217607471000	470nH	1628	U914	T3C	3605008005070	Operational amplifier
805	L117	B7F	3217607471000	470nH	1629	U915	B7D	3608015000060	Power management IC
806	L118	B7E	3217607471000	470nH	1630	U917	B3A	3609006003050	Reset IC
807	L121	B7F	3217607471000	470nH	1631	U918	B7D	3608999000800	Power management IC
808	L122	T8E	3210306150000	15nH	1632	U919	T5D	3608010006230	Power management IC
809	L123	T8E	3210306150000	15nH	1633	W321	T3A	4411100002000	IPX RF connector
810	L124	B7F	3237199080000	Air-core coil 8nH	1634	X100	T7E	3701019250030	TCXO
811	L126	B8F	3217607330010	33nH	1635	X302	T7B	3701019250040	TCXO
812	L127	B7E	3217607471000	470nH	1636	X375	T8B	3701327610060	Crystal
813	L128	T7E	3210306150000	15nH	1637	Z6100	T8I	3802733540030	Crystal filter
814	L129	B8F	3217607471000	470nH	1638	Z6101	B5J	3803093860010	SAW filter
815	L132	T8G	3215006100010	10nH	1639	Z6102	B5J	3803086260010	SAW filter
816	L133	B8E	3217607471000	470nH	1640	Z6104	B6I	3803086260000	SAW filter
817	L134	B7E	3217607471000	470nH	1641	Z6105	B6J	3803093860000	SAW filter
818	L135	T7F	3215006100010	10nH	1642	/	/	3101063920000	3900pF
819	L136	T7H	3217105220000	22nH	1643	/	/	3605002054590	Operational amplifier
820	L137	B8E	3237199080000	Air-core coil 8nH	1644	/	/	3608015000170	Power management IC
821	L139	B8E	3217607330010	33nH	1645	/	/	1616100001420	Built-in software
822	L140	B7E	3217607471000	470nH	1646	/	/	9830000000001	Voice encoding/decoding software
823	L141	T7G	3217105220000	22nH	1647	/	/	6203077000000	VCO shielding mask
824	L145	B7G	3210106560000	56nH	/	/	/	/	/

VHF (136 – 174 MHz)

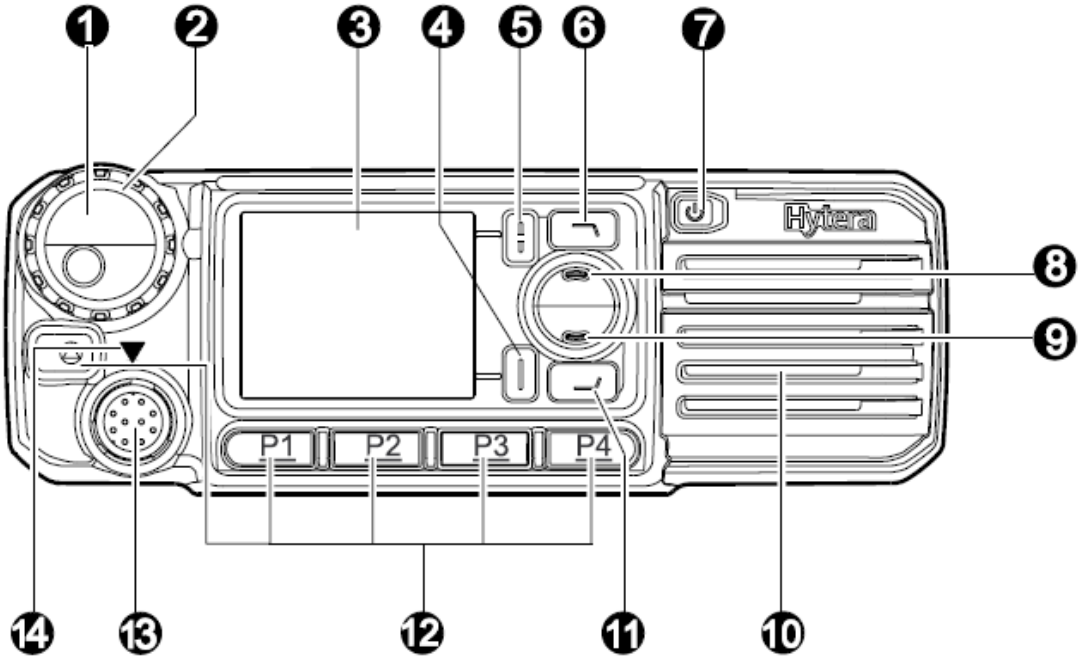
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1. Product Controls

Front Panel

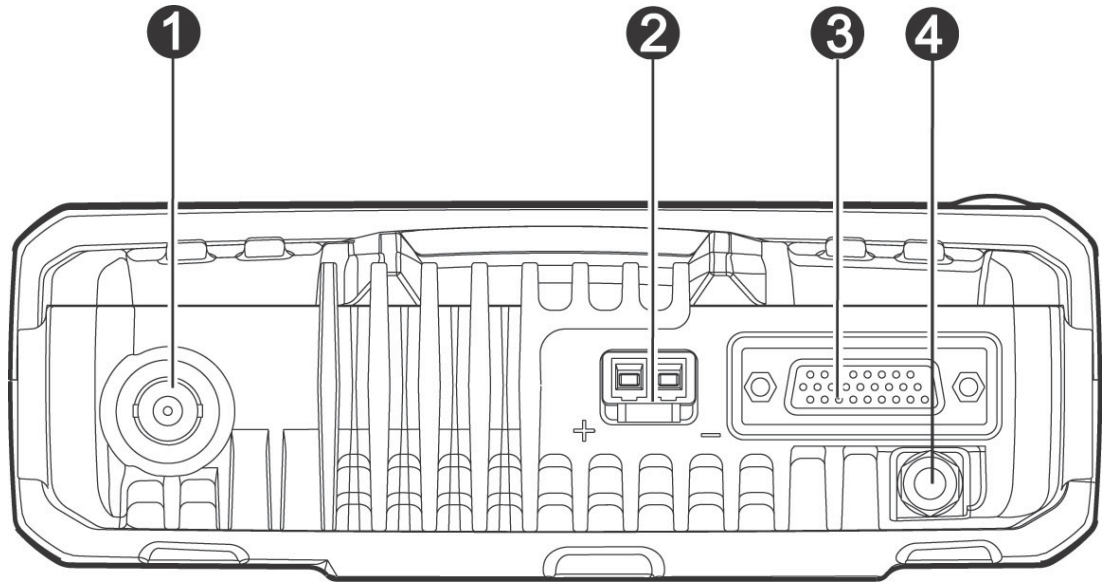


No.	Part Name	No.	Part Name
1	Volume Control/Group Call Selector Knob	8	Up Key
2	LED Indicator	9	Down Key
3	LCD Display	10	Speaker
4	OK/Menu Key	11	Redial/Answer/Call Key
5	Back/Group Call Management Key	12	Programmable Keys
6	Dial-back/End/Home Screen Key	13	Microphone Connector
7	Power On/Off Key	14	Microphone Installation Index

Note

The above-mentioned product control is based on the mobile radio in the trunking mode. In the conventional mode, No. 1 serves as Volume Control / Channel Selector Knob, and No. 6 & No.11 serve as the Programmable Keys.

Rear Panel



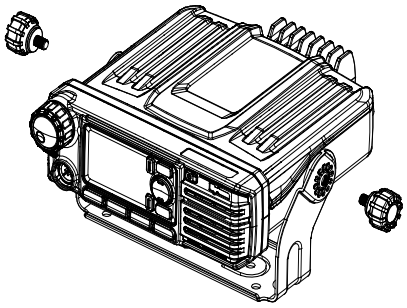
No.	Part Name	No.	Part Name
1	RF Antenna Connector	3	Accessory Connector
2	Power Inlet	4	GPS Antenna Connector

2. Disassembly and Reassembly

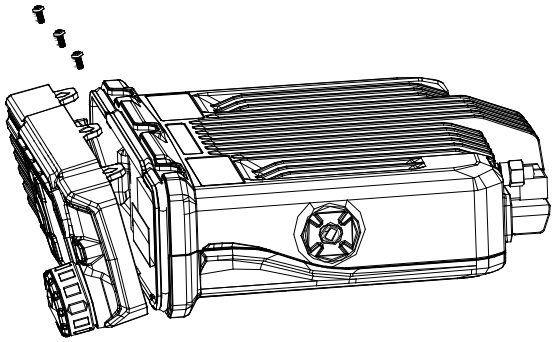
2.1 Disassembling the Radio

Step 1 Turn off the radio and remove the power cord and antenna

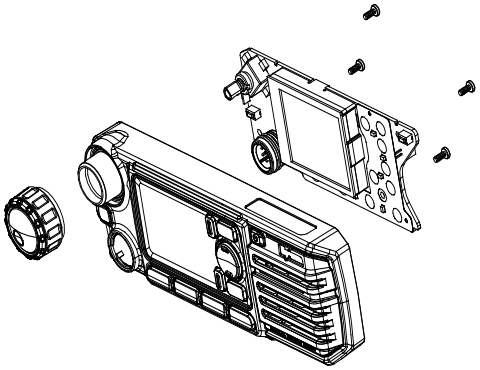
Step 2 Loosen the two screws to remove the radio.



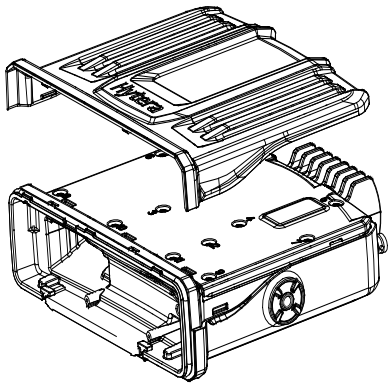
Step 3 Loosen the three screws to remove the front panel. Then remove the FFC.



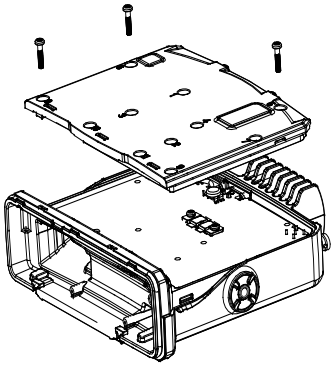
Step 4 Detach the volume control knob and loosen the four screws. Then remove the PCB from the control panel.



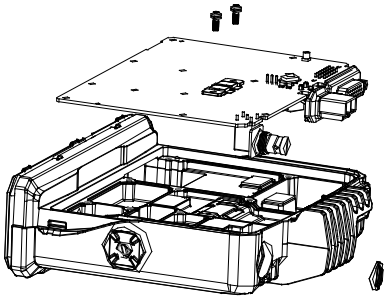
Step 5 Undo the clips on both sides of the radio, and then remove the rear cover.



Step 6 Loosen the eleven screws to remove the upper shield cover.



Step 7 Loosen the screw fixing the antenna connector and two screws fixing the PA module. Then take the PCB out.

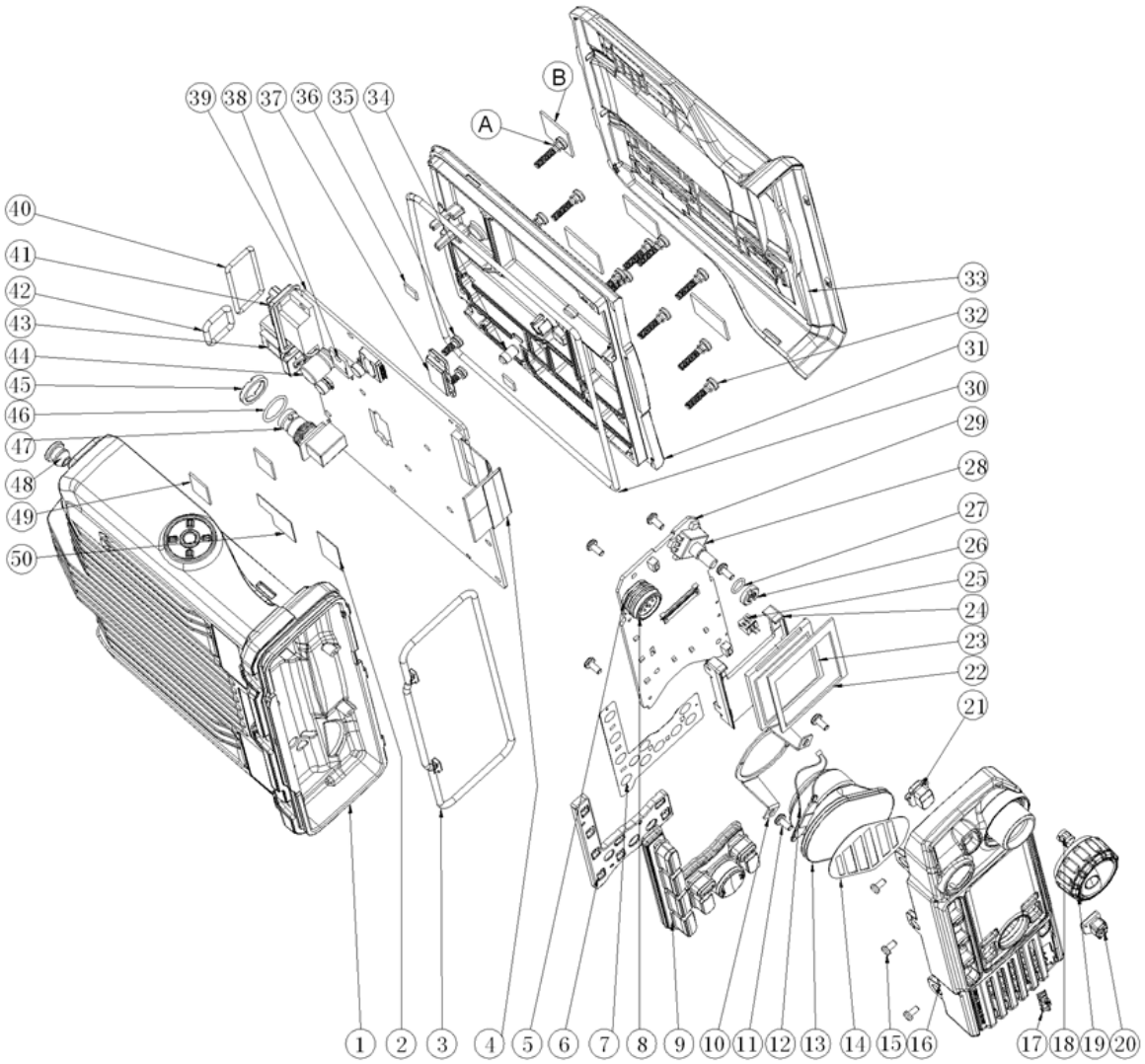


2.2 Reassembling the Radio

To reassemble the radio, perform the above steps in a reverse way.

3. Exploded View and Packing Guide

3.1 Exploded View



Part list:

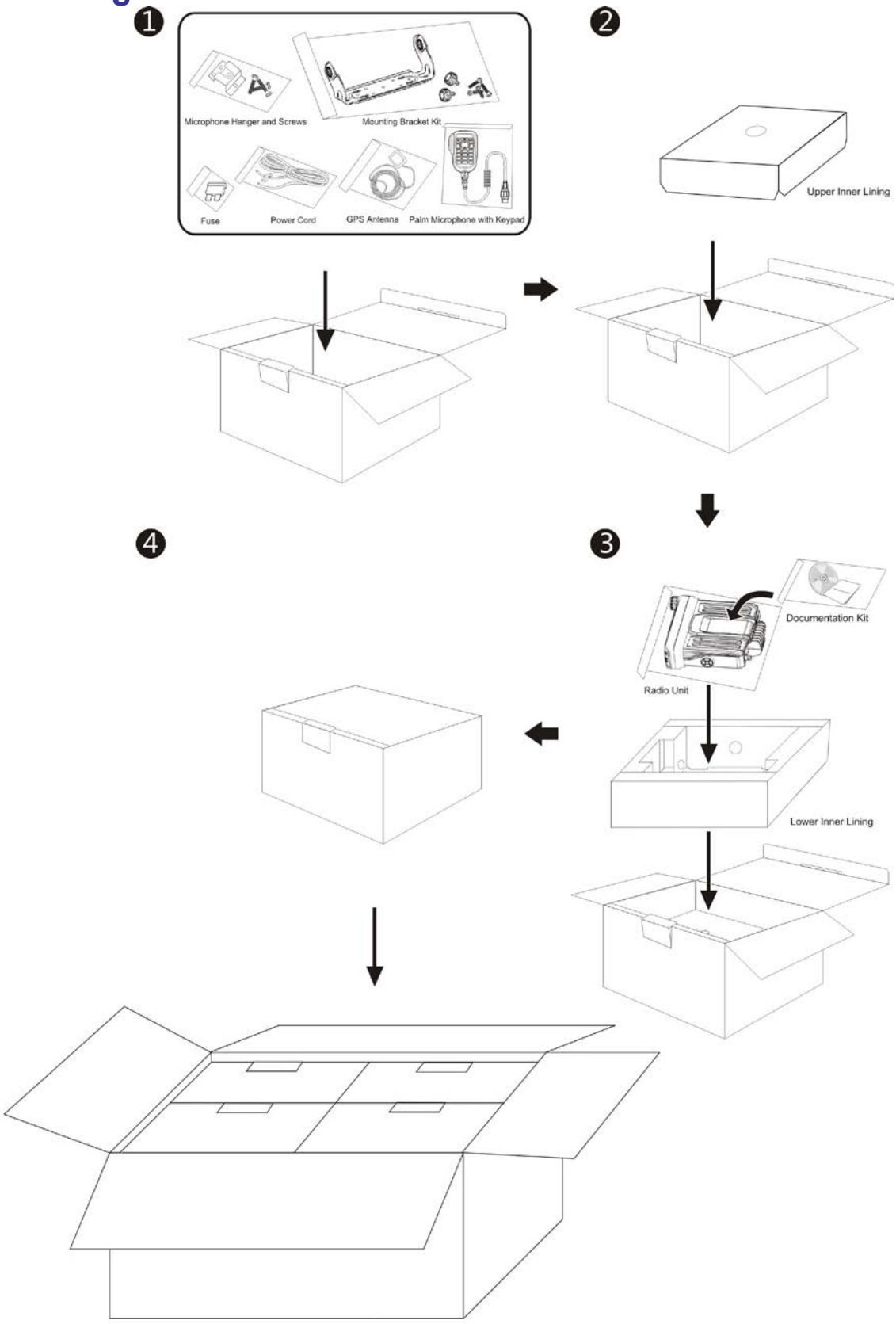
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
1	6300109000000	Aluminum chassis	1	27	6100334000000	O-ring for encoder switch	1
2	7500358000000	Heat sink pad	1	28	4399030000020	Rotary switch	1
3	6100492101000	Waterproof ring for front case	1	29	41078001000J0	PCB for front panel	1
4	4210090000200	Signal cable	1	30	6100533101000	Waterproof ring for aluminum chassis	1
5	5208010100010	Connector (male)	1	31	6300126000000	Aluminum upper cover	1
6	6001079000000	Light-guide plate for keys	1	32	7103015000000	Machine screw	11
7	7300048000000	Metal dome	1	33	6001080000000	Plastic upper cover	1
8	6100408001000	Waterproof ring for microphone jack	1	34	6100496000000	Conductive silicone rubber for main board	1
9	6100488000000	P+R front panel keys	1	35	7103008000400	Machine screw	2
10	6201893000000	Speaker fixing sheet	1	36	7500272000000	Heat sink pad	2
11	7102606021000	Self-tapping screw	6	37	/	Semi-finished PA with heat sink pad	1
12	4210080000700	Speaker cable (with 2-Pin plug)	1	38	3414999000020	PNP transistor	1

No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
13	5001210000390	Speaker	1	39	/	Main PCB	1
14	7400297000000	Speaker felt	1	40	6100532100000	D_SUB waterproof ring	1
15	7102505000110	Machine screw	3	41	5208026100000	Jack	1
16	6001076000010	Front case for front panel	1	42	6100530100000	Waterproof ring for power socket	1
17	860P580600100	Logo	1	43	5205002100110	Power socket (male)	1
18	6201739000000	Inner lining for knob	1	44	3103994770150	Electrolytic capacitor	1
19	6000876000000	Encoder knob	1	45	7212002500000	Nut	1
20	6100493000000	Power on/off key	1	46	6100531100000	Waterproof ring for antenna connector	1
21	6100404000000	Emergency key	1	47	4401000009000	BNC RF connector	1
22	7500344000000	PORON pad	1	48	6100494000000	Soft stopple for GPS antenna connector	1
23	5130000000040	TFT LCD 2.0" TFT	1	49	7500159000100	Thermal conductive silicone rubber	2
24	6001078000000	LCD bracket	1	50	7500357000000	Heat sink pad	1
25	5202002100270	Board-to-wire connector	1	A	6100574100000	O_ring	11
26	7207003700000	Nut	1	B	7500344000000	PORON pad	1

Note

Parts that are not marked with Part No. may vary with the radio frequency band.

3.2 Packing Guide



4. Specifications and Blind Spot

4.1 Specification

General	
Frequency Range	136 – 174 MHz
Channel Capacity	1024
Group Capacity	64 (each with a maximum of 16 channels)
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz
Operating Voltage	13.6±15% V DC
Current Drain	● Standby: <0.6 A ● Receive: <2.0 A ● Transmit: 5 W: <5 A; 25 W: <8 A; 50 W: <12 A
Frequency Stability	±1.5 ppm
Antenna Impedance	50 Ω
Dimensions (H×W×D)	60mm × 174mm × 200mm (2.4inch × 6.9inch × 7.9inch)
Weight	1.7kg (3.75lbs)
LCD Display	220*176 pixels, 262000 colors, 2.0-inch, 4 rows
Transmitter	
Power Output	● Low: 5 – 25 W ● High: 5 – 50 W
Conducted/Radiated Emission	● -36 dBm<1 GHz ● -30 dBm>1 GHz
FM Modulation	● 11k0F3E@12.5 kHz ● 14K0F3E@20 kHz ● 16K0F3E@25 kHz
4FSK Digital Modulation	● 12.5 kHz (data only): 7K60FXD ● 12.5 kHz (data and voice): 7K60FXW

Modulation Limit	● ±2.5 kHz@12.5 kHz ● ±4.0 kHz@20 kHz ● ±5.0 kHz@25 kHz
FM Hum and Noise	● 40 dB@12.5 kHz ● 43 dB@20 kHz ● 45 dB@25 kHz
Adjacent Channel Power	● 60 dB@12.5 kHz ● 70 dB@20/25 kHz
Audio Response	+1dB to -3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE++ or SELP
Digital Protocol	ETSI-TS102 361-1, -2, -3
Receiver	
Sensitivity	Analog: ● 0.3 μV (12 dB SINAD) ● 0.22 μV (Typical) (12 dB SINAD) ● 0.4 μV (20 dB SINAD) Digital: ● 0.3 μV /BER5%
Adjacent Channel Selectivity	● TIA-603: 65 dB@12.5 kHz/75 dB@20/25 kHz ● ETSI: 60 dB@12.5 kHz/75 dB@20/25 kHz
Intermodulation	● TIA-603: 75 dB@12.5/20/25 kHz ● ETSI: 70 dB@12.5/20/25 kHz
Spurious Response Rejection	● TIA-603: 75 dB@12.5/20/25 kHz ● ETSI: 70 dB@12.5/20/25 kHz
Blocking	● TIA-603: 90 dB ● ETSI: 84 dB
Hum and Noise	● 40 dB@12.5 kHz

	● 43 dB@20 kHz ● 45 dB@25 kHz
Rated Audio Power	● Internal (20 Ω load): 3 W ● External (8 Ω load): 7.5 W
Max. Audio Power	● Internal (20 Ω load): 8 W ● External (8 Ω load): 20 W
Rated Audio Distortion	≤ 3%
Audio Response	+1 dB to -3 dB
Conducted Spurious Emission	<-57 dBm
Environment	
Operating Temperature	-30℃ to +60℃
Storage Temperature	-40℃ to +85℃
ESD	IEC 61000-4-2 (Level 4) ±8 kV (contact) ±15 kV (air)
American Military Standard	MIL-STD-810 C/D/E/F/G
Dust & Water Protection	IP54
Humidity	Per MIL-STD-810 C/D/E/F/G Standards
Shock and Vibration	Per MIL-STD-810 C/D/E/F/G Standards
GPS (for MD78XG only)	
Accuracy specs are for long-term tracking (95th percentile values>5 satellites visible at a nominal -130dBm signal strength).	
TTFF (Time To First Fix) Cold Start	< 60s

TTFF (Time To First Fix) Hot Start	<10s
Horizontal Accuracy	<10 m

Note

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

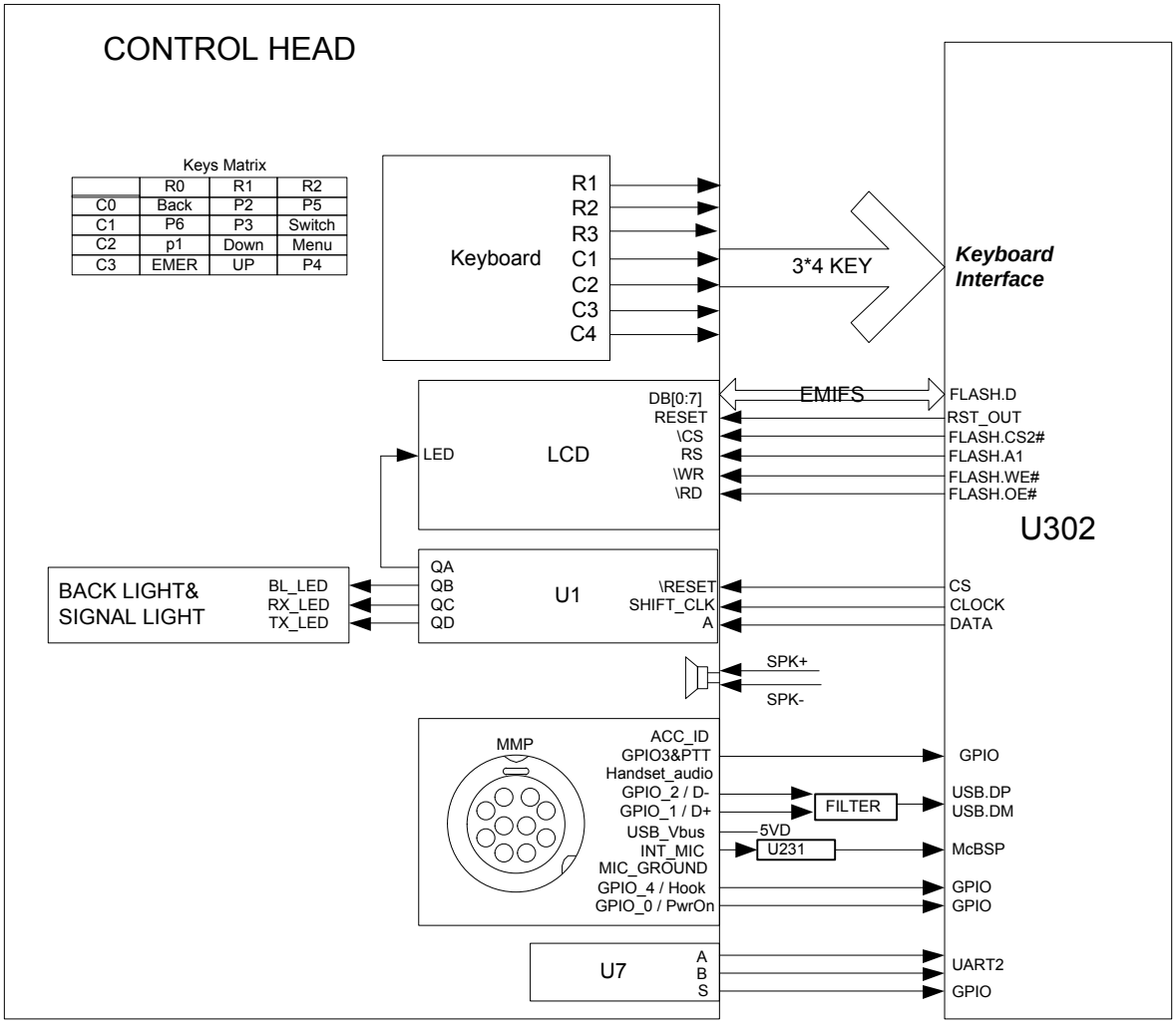
4.2 Blind Spot

No.	Blind Spot (MHz)	No.	Blind Spot (MHz)
1	153.6	3	144
2	172.8	4	162

5. Circuit Description

5.1 Front Panel

Front panel includes components such as power on/off key, keys, LCD display, LED indicators, backlight and volume control knob. The function diagram is shown below.



Power Supply

The power supply of the main board powers the front panel via U902 (5 V), and serves as the power supply for LED indicator, backlight and USB devices. Then the power is further fed to U5, so as to power the LCD module and U1 (serial-to-parallel converter IC).

Keys

The front panel includes 12 keys, each of which has different functions in different operation mode. The identifications of each key on the front panel are realized by the 3*4 matrix keyboard.

Key	Conventional Mode	Trunking Mode
Programmable Keys	S2, S3, S7, S8, S9, S10, and	S3, S7, S9, S10, and S12

Key	Conventional Mode	Trunking Mode
	S12	
Navigation Key	S5 and S11	
OK/Menu Key	S4	
Back Key	S6	
Power On/Off Key	S1	
Dial-back/End/Home Screen Key	/	S2
Answer/Redial/Call Key	/	S8

LCD

The front panel adopts TFT LCD to transfer data to U302 via the EMIFS data bus. The control signals include read/write enable signal, memory chip select signal, LCD chip select signal and reset signal, each of which is pulled up by R36, R35, R34, R33 and R6 respectively. The LCD module is powered by U5 which converts 5 V into 3.3 V.

LED Indicator and Backlight

The LED enable signal is fed to the serial-to-parallel converter IC, and then is output by U302. RX status is indicated by green LED, and TX status by red LED. Backlight is activated upon any key press.

The red and green LEDs in series are powered by U902 (5 V) and controlled by Q2 and Q3. The backlight is also powered by U902 (5 V) and controlled by Q1. Control signals are output via U1.

MMC

For details, see *Interface Definition*.

Audio Output

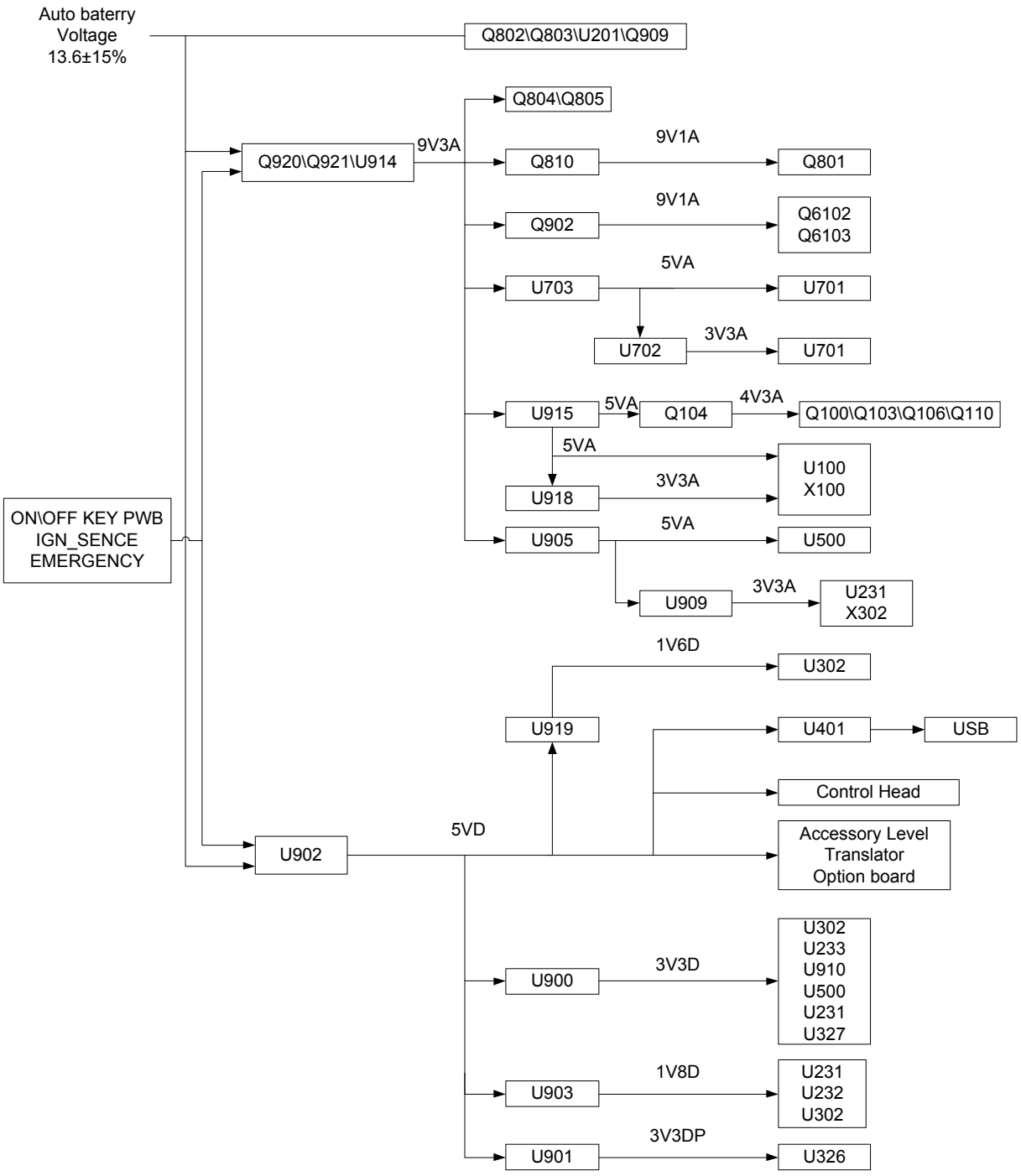
The front panel provides two audio outputs: Handset_audio and Internal_audio (SPK±). Handset_audio is the external output of received audio via MMC interface, while Internal_audio (SPK±) is connected to the internal speaker.

Volume Control

The volume control is facilitated by the rotary encoder switch (U7), which generates signals to be fed to U302 through GPIO17 and GPIO18 for volume adjustment.

5.2 Baseband

5.2.1 Power Supply Module



Both the baseband control IC and the RF section can convert the supplied voltage to an appropriate one via the voltage converter.

- Supply for RF: U914, Q920 and Q921 supply power for the RF section by high current PNP transistor and comparator, which can work as Low Dropout Regulator (LDR).
- Supply for FGU: U918 and U915 supply 3.3V and 5V respectively to U100.

- Supply for Baseband: The processor U302 is supplied by 3.3 V (U900), 1.8 V (U903) and 1.6 V (U919); the memory (U232/U233) is supplied by 3.3 V (U900) and 1.8 V (U903) respectively; the audio processor IC (U231) is supplied by 3.3 V (U905&U909&U900) and 1.8 V (U903); the DAC (U500) is supplied by 5 V (U905) and 3.3 V (U900).
- EXT_SWB+: It is supplied by 13.6 V (Q909).

5.2.2 Control Module

Power On/Off

The mobile radio can be powered on/off through any of the following methods:

- Power On/Off Key

  The mobile radio is turned on via the **Power On/Off** key. As this key is pressed, R944 becomes grounded and Q910 is on. Then Q905 outputs high-level signal, causing U902 and Q920 to start working. Afterwards, the processor (U302) executes user routines to maintain a high-level power control signal (PWR_CTR). In this case, the radio starts to work properly after the **Power On/Off** key is released.

  The mobile radio is turned off via the **Power On/Off** key. After this key is pressed, LQ910 is on and a low-level signal (PWB) to power off the radio is detected by U302, which then controls PWR_CTRL to output low level. Afterwards, the radio becomes powered off.

- Ignition Sense

  The mobile radio can be turned on when ignition is sensed. When the voltage of ignition signal exceeds 7V, Q1 will be turned on by charging of C933, R955 and R956. As a result, the PNP transistor of Q905 will be further turned on to power the mobile radio. Meanwhile, Q401 will also be turned on, and U302 will identify ignition signals by detecting the signal from Q401; afterwards, the level PWR_CTRL is generated by the processor.

- Emergency

  When the emergency alarm pin is at low level, R940 is grounded, and Q906 is turned on to supply power for the mobile radio. Meanwhile, Q908 is also turned on and the low level is detected from U302. When the mobile radio is off, the PWR_CTRL signal and emergency signal will be output. Otherwise, only the emergency signal will be output directly.

Power-on process:

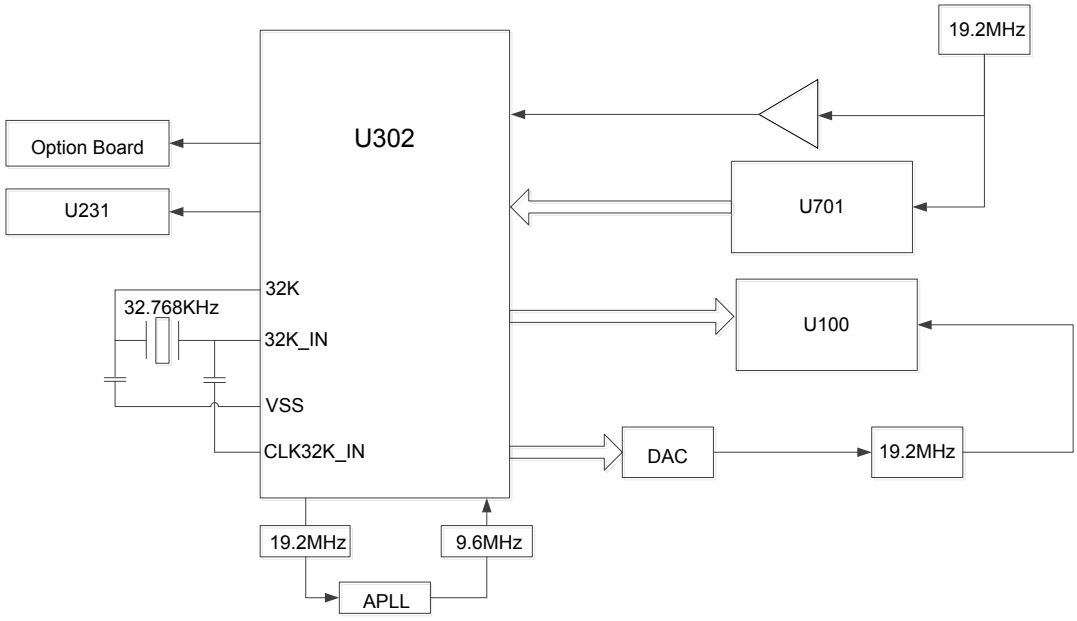
Step 1 Power on the mobile radio using one of the three methods (Power On/Off key, Ignition Sense, or Emergency);

Step 2 U917 generates reset signal and remains low level for 1.25 seconds, allowing the processor (U302) to get started.

Step 3 Power-on signal is sent to the processor (U302).

Step 4 After receiving the signal, the processor (U302) generates the level of PWR_CTRL. Then the power-up procedures are completed.

Clock



- Input Clock

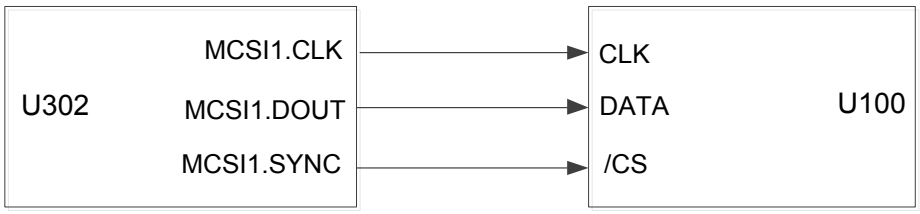
  The 32K clock provided by X375 is mainly used for timing and sleeping of the mobile radio. Its frequency (32.768 kHz) is divided by U302 (32768 times in all) to 1Hz for counting seconds. The system clock (19.2 MHz) is generated by an external crystal oscillator.

- Output Clock

  The baseband outputs three clock signals to U231, U100 and Option Board respectively.

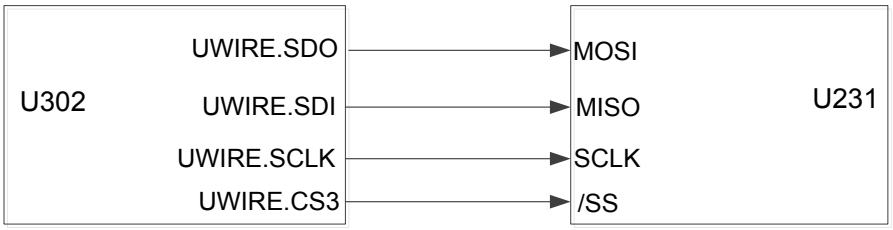
Interface Distribution

- MCSI Interface



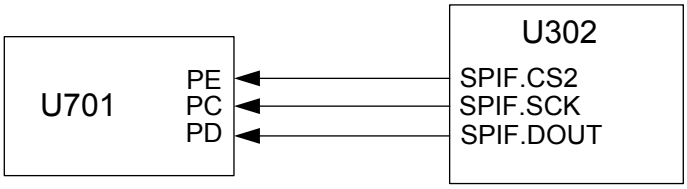
  When U302 is communicating with U100, it works in Master Mode with clock frequency of up to 9.6 MHz. U100 uses MCSI1.CLK as the clock, MCSI1.DOUT as data cable to configure its register. MCSI synchronization as chip select signal

- MICROWIRE Interface



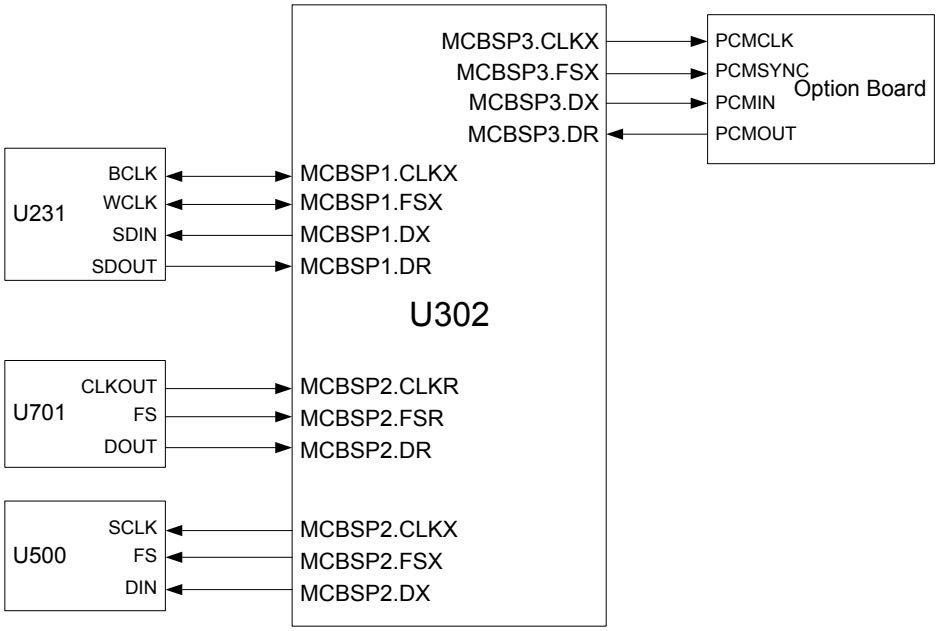
The MICROWIRE interface can accommodate four external devices at most, generally transmitting control and status messages of external devices, and reading data from ROM. Its maximum clock frequency is a quarter of system clock frequency. In this case, MICROWIRE is used to configure or read from the audio processor U231 and requires chip select signal CS3.

- Serial peripheral interface (SPI)



SPI of the processor U302 operates in Master mode, and it is controlled by MPU or DMA. In Master Mode, U302 can provide four chip select signals, of which CS2 is used to control the Intermediate Frequency (IF) digital processor U701.

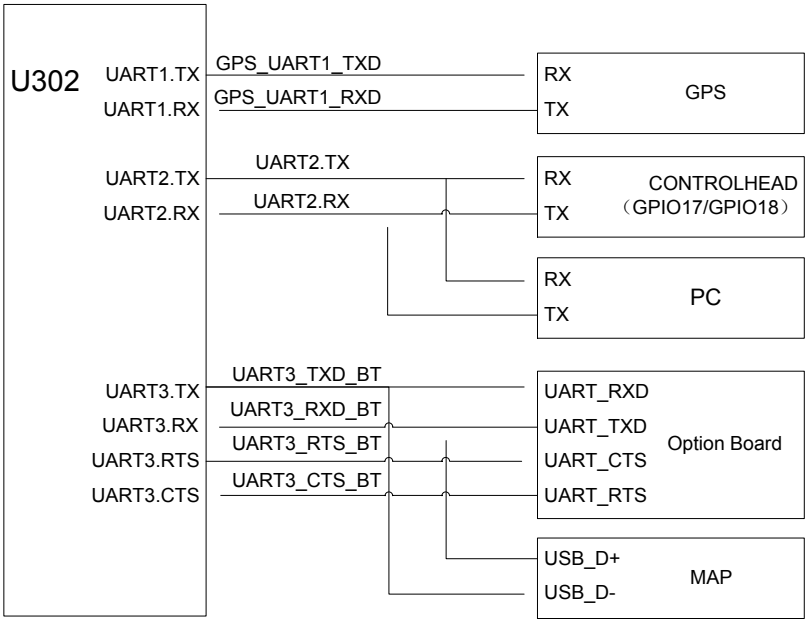
- Serial Synchronous Interface (SSI)



U302 provides three MCBSP interfaces including MCBSP1, MCBSP2 and MCBSP3, which are compatible with various interfaces.

- MCBSP1 is connected to the interface I2C of audio processor U231, to realize two-way transmission of digital voice and data.
- MCBSP2 uses independent clock and frame synchronization for transmission and reception. The SSI of U701 is connected to the RX end of MCBSP2 for U302. U500 is connected to the TX end of MCBSP2.In this case, U302 works in Master mode.
- MCBSP3 is connected to the Option Board interface for voice and data transmission

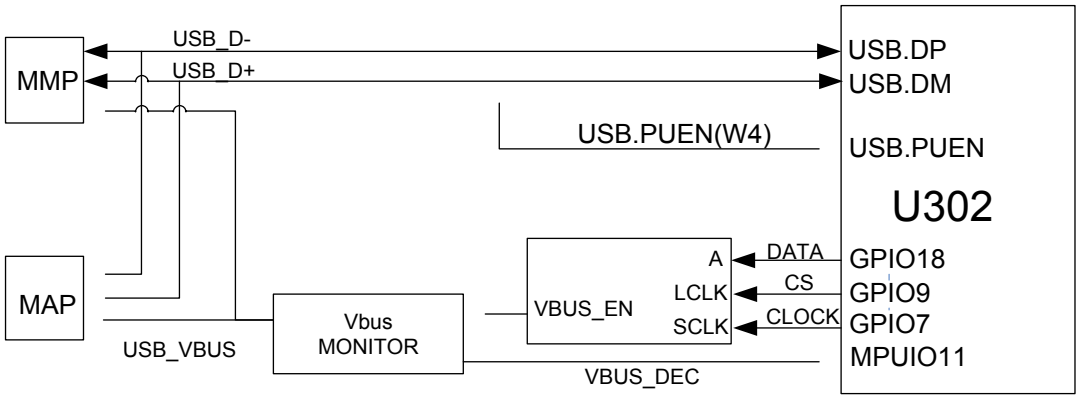
- UART Interface



Processor U302 provides three UART interfaces, which are used to communicate with different external devices.

- UART1 is used for communication with GPS module.
- UART2 is used for communication with front panel (GPIO17 and GPIO18).
- UART3 is used for communication with the Option Board and accessory connector.

- USB Interface



The mobile radio provides two USB interfaces, which are connected to the same USB signal port of the processor U302.

- Mobile Accessory Connector (MAC)

Mobile accessory connector contains audio interface, programmable I/O port, serial port, USB interface, accessory identifier port and etc, which are applied to further development. For details, see 7 Interface Definition.

- Option Board Interface

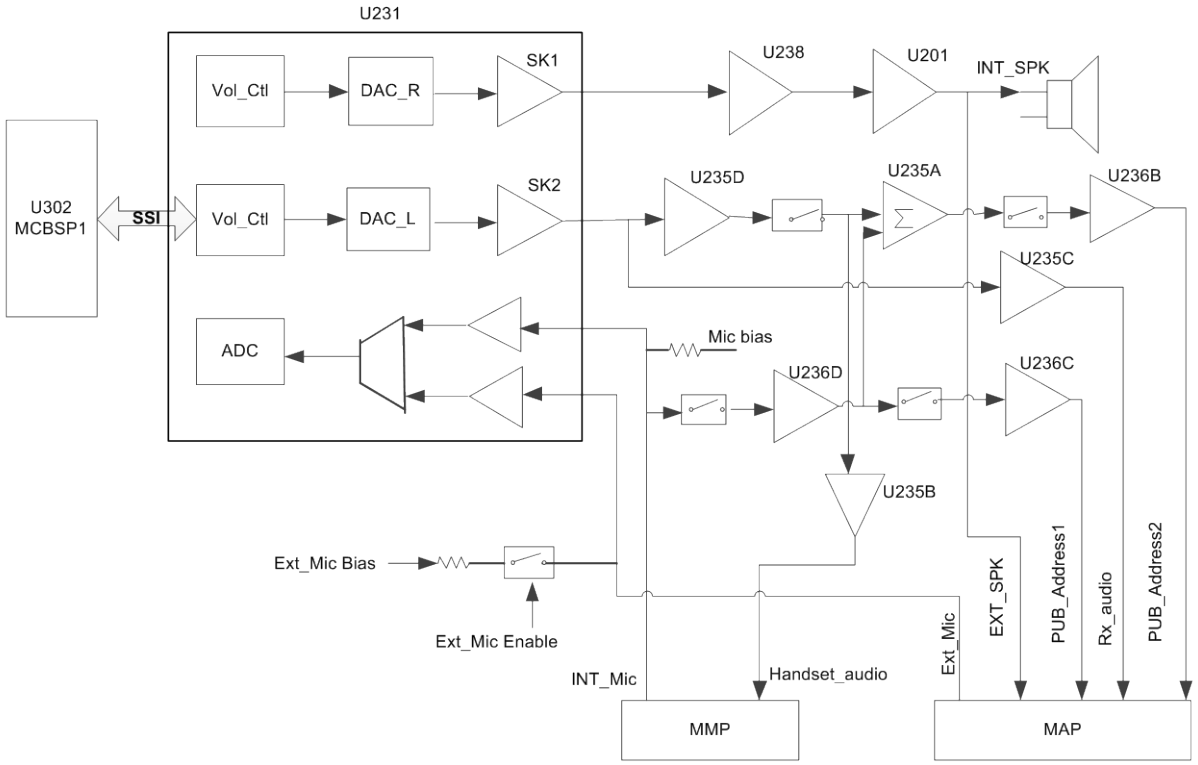
  J400, an option board interface, is used to achieve specific function by connecting to the designated option board. The definition of each pin is listed as below:

Pin No.	Signal	Function	I/O of the Radio	Voltage of Option Board VDD=3.3 V	Remarks
1 3 5 7 9	GPIO1 GPIO2 GPIO3 GPIO4 GPIO5	GPIO GPIO GPIO GPIO RESET-OUT	I/O I/O I/O O O	VIH MIN=0.7VDD VIL MAX=0. 3VDD VOH MIN=0.8VDD VOL MAX=0.22VDD	GPIO5: output signal of resetting the option board. GPIO4/GPIO5: Uni-directional output interfaces. They require their input resistances are greater than or equal to 47 kΩ.
11 13 15 17	UART-TX UART-RX UART-CTS UART-RTS	UART	O I I O		UART
2 4	I2C –SDA I2C -SCL	I2C	I/O O		I2C
6 8 10 12	MCBSP-DR MCBSP-WCLK MCBSP-DX MCBSP-FSX	MCBSP	I I/O O I/O		McBSP: Multi-channel buffered serial port
14	AGND	AGND	/	/	/
16	AF OB TO MB	AF	I	80 mV (standard output from the option board to the main board)	MAX: 700 mV

Pin No.	Signal	Function	I/O of the Radio	Voltage of Option Board VDD=3.3 V	Remarks
18	AF MB TO OB	AF	O	80 mV (standard output from the main board to the option board)	MAX: 700 mV
19	DGND	DGND	/	/	/
20	3V6 or 5V	Power	O	Voltage: 5.0 V	/

5.2.3 Audio Module

The audio module is used to output RX audio and input relay audio and TX audio, which serves as the RX audio path and TX audio path.



- RX Audio Path

  U302 sends digital audio signals to the audio processor codec (U231) via the SSI bus of MCBSP1. This bus is composed of CLKX, FSX, DX and DR. It sends the 16-digit demodulated PCM audio signal to the codec (U231), and adjusts the signal to appropriate amplitude according to the volume

(RMS should be 80 mV when frequency is 1 kHz and deviation is 3 kHz). Then the codec (U231) converts PCM data into analog audio data via DAC.

U231 provides two outputs: SPK1 and SPK2. SPK1 is amplified by U238 and then is fed to the PA U201, to derive two outputs of received audio, which will be applied to the front panel speaker and further development interface respectively. SPK2 is amplified and divided into the four paths of signal Handset_audio, RX_audio, PUB_Address1 and PUB_Address2.The first two paths are amplified by U235, and the last two paths are amplified by U236. Output of Handset_audio, PUB_Address1 and PUB_Address2 are controlled by Q231, Q235 and Q233 respectively.

- TX Audio Path

The audio processor U231 has two MIC inputs: the internal MIC and external MIC. The internal MIC is connected to the MICIN_HND of U231, and is combined with AUX1 to provide differential input. After 9.3V is divided by R255 and R264, a bias voltage of about 7V is provided to the front panel MIC. The external MIC is connected to the MIC_HED of the codec (U231) as a uni-directional input.

Both MICs are controlled by Q232. When the internal MIC is active, EXT_MIC_EN is at low level, bias voltage of external MIC is disconnected, and the ADC in U231 samples voltage at the MICIN_HND. When the external MIC is active, EXT_MIC_EN is at high level, Q232 is turned on, bias voltage is connected, and the ADC in U231 samples only audio data at MICIN_HED.

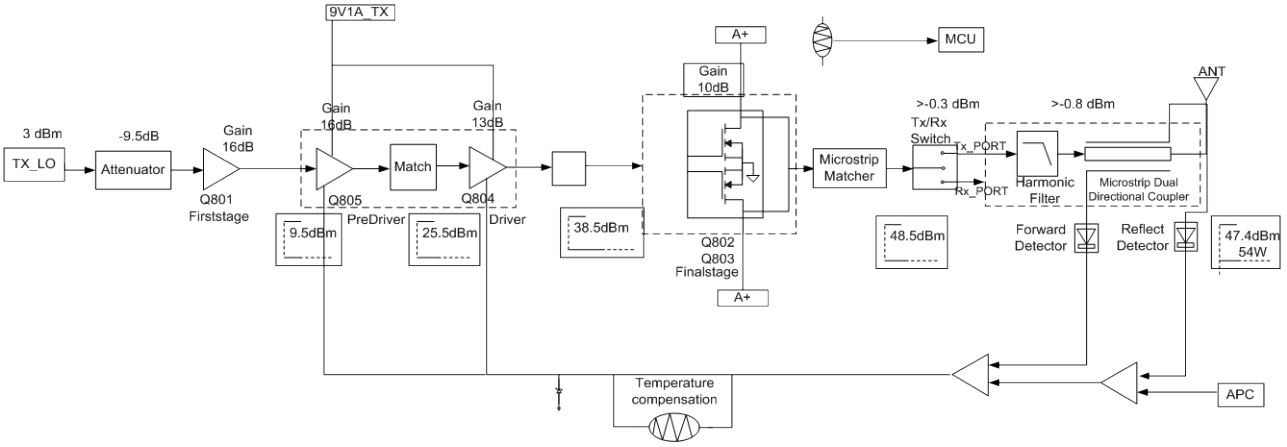
Audio signals input from the MMC interface and the accessory connector are fed to the Codec (U231) and then are converted by the ADC into 16-bit PCM digital audio signals, which will be fed to U302 via the SSI.

When the mobile radio is set to Public Address mode, the audio signal will be generated by the internal MIC, and then is buffered by U231, and finally is output via SPK2. The output audio signal is amplified, and then is output as the two paths of audio PUB_Address1 and PUB_Address2.

5.3 RF Section

5.3.1 Transmitter Circuit

The transmitter circuit is composed of power amplifier circuit and power control circuit. The former is used to amplify the voltage control oscillator (VCO) signal to the appropriate output power level, while the latter can keep the output power at the appropriate level, so as to protect the power amplifier from damage caused by over heat, antenna mismatch, and out-of-range voltage (over voltage or under voltage may result in damage to Q801, Q805, Q804, Q802 and Q803).



Power Amplifier Circuit

The power amplifier circuit consists of four-stage power amplifier circuits and amplifies the signal output from VCO to the required output power level.

Note

Only one final-stage PA (Q803) is available, if the power of the mobile radio is 25 W and the version of main board is Version D or later version.

- TX Buffer Amplifier

  TX buffer amplifier provides 16 dB power gain by Q801. Adjust the bias circuit of TX buffer amplifier circuit to get a quiescent bias current of 28 mA for Q801. Power supply for the switching transistor Q810 is controlled by TX signal, so as to further control the power supply for the whole circuit.

- Pre-driver Power Amplifier

  The pre-driver power amplifier is formed by Q805, with variable gain controlled by voltage VGG. The input matching circuit is composed of C826, L826, L814, C843 and R824.

- Driver Power Amplifier

  The driver power amplifier is formed by Q804, with variable gain controlled by voltage VGG. Its maximum output power is 38.5 dBm and maximum gain is 13 dB.

- Final-stage Power Amplifier

  The final-stage power amplifier outputs via two LDMOS PA transistors (Q802 and Q803) which are in parallel connection. Its maximum output power is 48.5 dBm and maximum gain is 10 dB. The input matching circuit is composed of C815, C839, R804, R806, R807, R813, R818, and R861. And the power combining circuit is composed of C820, C830, C831, C819, C812, C841, and C842.

Antenna Switch

The antenna switch is used to switch between the transmitter circuit and the receiver circuit.

- In TX mode

TX signal controls the switching transistor Q810, to further control the power supply (9 V 3 A) for the PIN diodes D801 and D802. Quiescent bias current of the PIN diode is controlled by the resistors R821 and R825. In this mode, D801 and D802 are turned on; RF signals are transmitted via the antenna port through the low-pass filter (composed of C821, C816, C836, C837, C830, C838, L809, L813, and L810).

- In RX mode

  TX signal controls the switching transistor Q810, to further control the power supply for the PIN diodes D801 and D802, which are not applied with DC bias current. When the two PIN diodes are turned off, D802 is turned on and signals feed into the RX path through the low pass filter (composed of L871, C852, and C862).

Low-pass Filter

The low-pass filter consisting of inductors (L809, L813, and L810) and capacitors (C821, C816, C836, C837, C830, and C838), is used to attenuate harmonic energy from the transmitter.

Directional Coupler

The directional coupler is composed of components such as microstrip directional coupler, D803 and D804. It is used to detect both forward and reverse power of the transmitter. The forward power is coupled to the diode D803, and the voltage is applied to the power control circuit (U801). Then U801 outputs the voltage VGG for controlling the gate voltage of Q805 and Q804, ensuring a constant power output. The reverse power is coupled to D804. The voltage is applied to U802 and then fed into U302 for detection.

Power Control

The TX power is controlled by power control chips U801. The forward power is applied to the directional coupler, to output a voltage that can represent the forward power. The voltage together with the preset voltage feeds to U801 to output a voltage VGG, which can control both gate voltage and gain of Q804 and Q805, ensuring a constant power output.

Thermal and Over-voltage Protection

The circuit comprises thermistor RT804 and resistor R884. The output voltage is proportional to the detected temperature. Both the voltage used for temperature detection and the threshold voltage are fed to the operational amplifier U804, to output a voltage signal that is proportional to the detected temperature. The voltage is applied to software judgment via the diode, and then the preset voltage will be subsequently changed to lower TX power, and to protect the PA from over-heating.

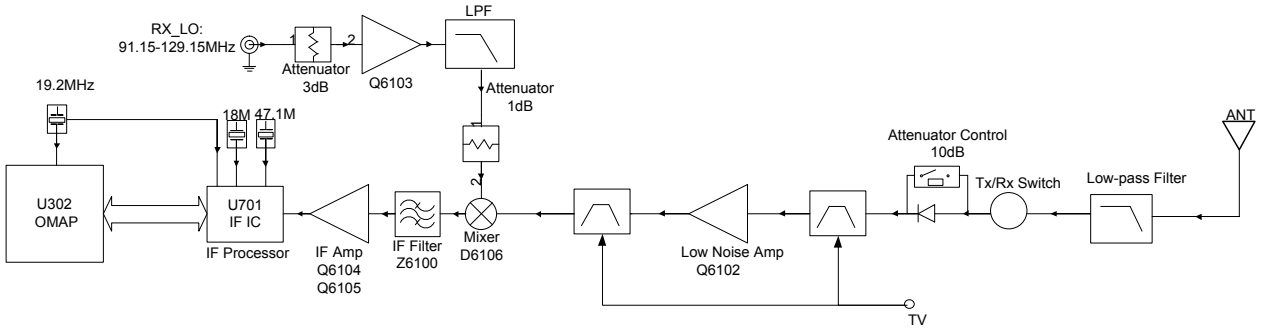
Pressure Pad Switch

The power control circuit includes a pressure pad switch SW1, which is controlled by the conductive rubber part mounted on the upper cover. When the switch is turned off, the power control voltage VGG

will become low, and no power will be output from PA. Otherwise, PA will work normally.

5.3.2 Receiver Circuit

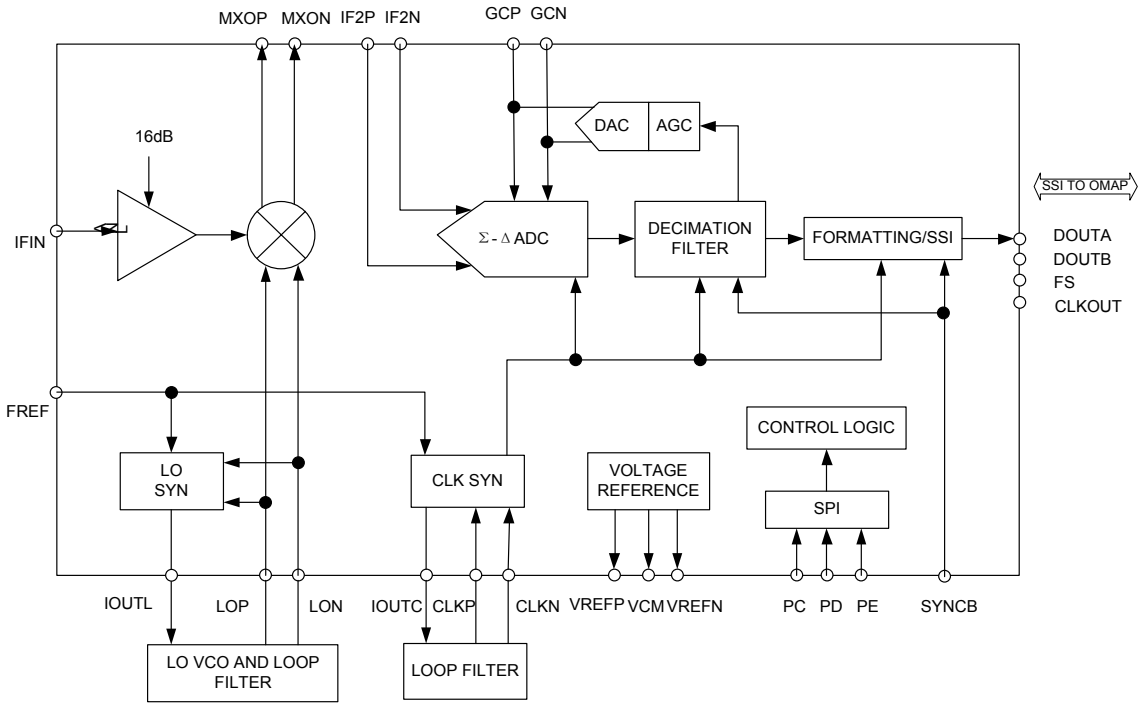
The receiver circuit employs double conversion superheterodyne technique. The first IF is 44.85 MHz and the second IF is 2.25 MHz. The first local oscillator (LO) signal is supplied by the PLL circuit (U100), and the second LO signal (47.1 MHz) is supplied by IF processor circuit (U701). The major units are BPF and LNA, mixer, IF filter, IF amplifier, and IF processor.



Receiver Front-end

RF signals feed to the low-pass filter to remove out-of-band signals, and are applied to the two-stage electrically tunable band-pass filter to get useful signals. After passing through the RF band-pass filter and LNA (Q6102), the RF signals together with the first LO signal feed to the mixer (D6106) for the first frequency conversion, to generate the first IF signal (44.85 MHz). The LO signal (3-5 dBm) from the VCO feeds to Q6103 to get a gain of 17 dB, meeting the mixer's requirement. The first LO signals (44.85 MHz) pass through the crystal filter (Z6100) to remove out-of-band spurious signals, and then feed to the two-stage IF amplifier circuit (composed of Q6105 and Q6104) for amplification. Finally the amplified signals go to the IF IC for digital processing.

Receiver Back-end



The first IF signal (44.85 MHz) output by the IF amplifier goes into IF IC via Pin 47, where the signal is converted to the second IF signal (2.25 MHz). Then the un-demodulated digital I/Q signal output from the SSI is sent to U302 for demodulation. IF IC employs a reference frequency of 19.2 MHz and shares the crystal with U302. The second LO VCO consists of the external transistor, varactor and some other components, to provide the second LO signal. The clock frequency is 18 MHz, which is generated by the external LC resonance loop (D702, L715, and C745).

DSP (U302) gets the audio signal from IF IC. Then this signal goes through U302 to output data signal, which is sent to U231 and PIN44 (SSI_DI) for digital-to-analog conversion. Finally, the output analog audio signal will be subjected to gain control, and then fed to the speaker.

5.3.3 FGU Circuit

PLL Synthesizer

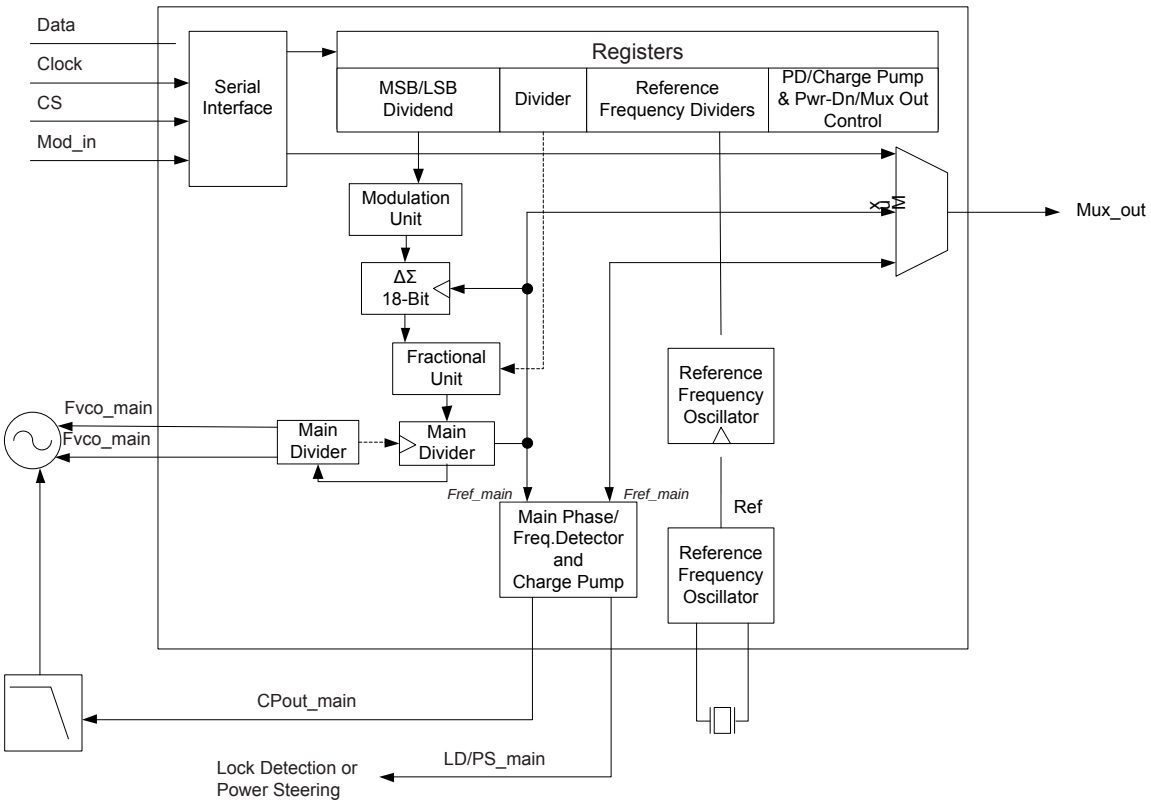
The PLL synthesizer that consists of the crystal oscillator (X100), PLL IC (U100) and VCO, is used to supply excitation signal source to the transmitter, and LO signal to the receiver.

Crystal Oscillator

Crystal oscillator (X100) is a 19.2 MHz temperature compensated crystal oscillator (TCXO), and its reference frequency is calibrated by the digital-to-analog converter (U500) for accuracy.

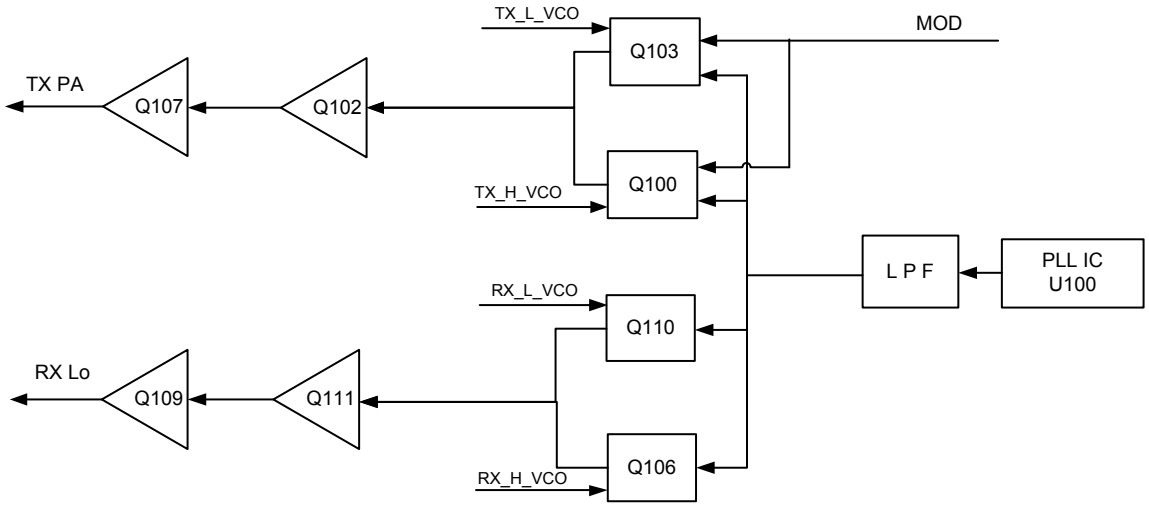
PLL IC

The PLL IC (U100) is a fractional frequency divider IC. The logic switch ICs (U101 and U102) work with the PLL IC (U100) to achieve locking.



The 19.2 MHz frequency generated by the crystal oscillator (X100) goes into the PLL IC (U100) for frequency division, generating the reference frequency. Meanwhile, the frequency generated by VCO goes into PLL IC (U100) for frequency division. The resulting frequency will be compared with reference frequency in terms of phase difference in the phase detector. After comparison, the resulting frequency is converted to CV voltage via the loop filter, to control and lock the frequency.

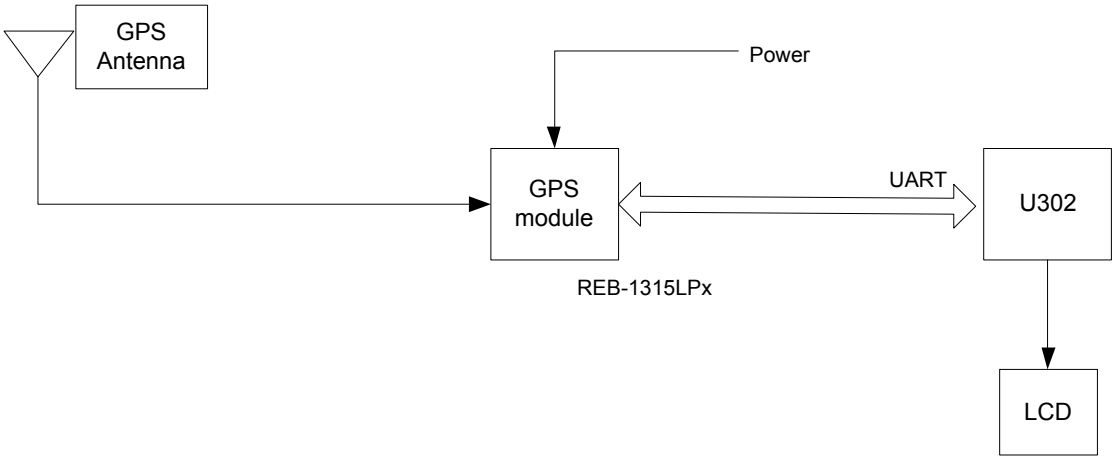
Voltage-Controlled Oscillator (VCO)



VCO is composed of transistors (Q100, Q103, Q106, and Q110), varactors and four Colpitts oscillators. There are four VCOs in all: two VCOs (Q100 and Q103) used to transmit excitation signals and another two VCOs (Q106 and Q110) to receive LO signals. U302 controls the operating frequency of the

VCO.Q102 and Q107 constitute the buffer amplifiers for the transmitter circuit, while Q111 and Q109 for the receiver circuit. The digital-to-analog converter IC (U500) modulates the TX oscillator signal.

5.4 GPS Circuit

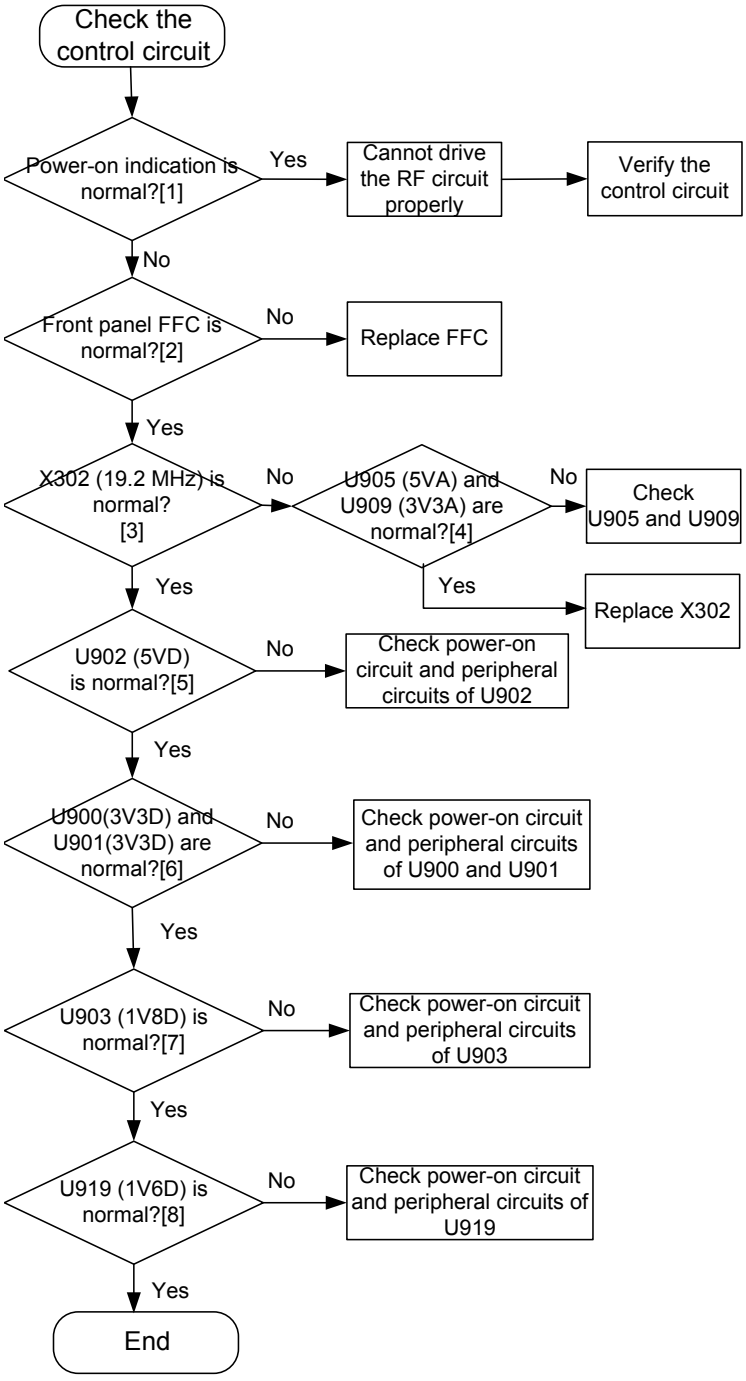


GPS data can be acquired via the programmable GPS key on the front panel of the mobile radio. The GPS function is realized via REB-1315LPx module, which integrates GPS baseband processor circuits.

The GPS signal (1.57542 GHz), received via the GPS active antenna (with a built-in LNA), goes to the GPS module for processing, and then enters U302 via the UART port. Meanwhile, U302 sends control command to the GPS module and forwards processed GPS data to the LCD display.

6. Troubleshooting Flow Chart

6.1 Control Circuit



Description of normal situations:

[1] No splash occurs on the screen upon power-on.

[2] The FFC connects correctly.

[3]The frequency of signal from X302 is 19.2 MHz.

[4] The output voltage of U905 and U909 is 5 V and 3.3 V respectively.

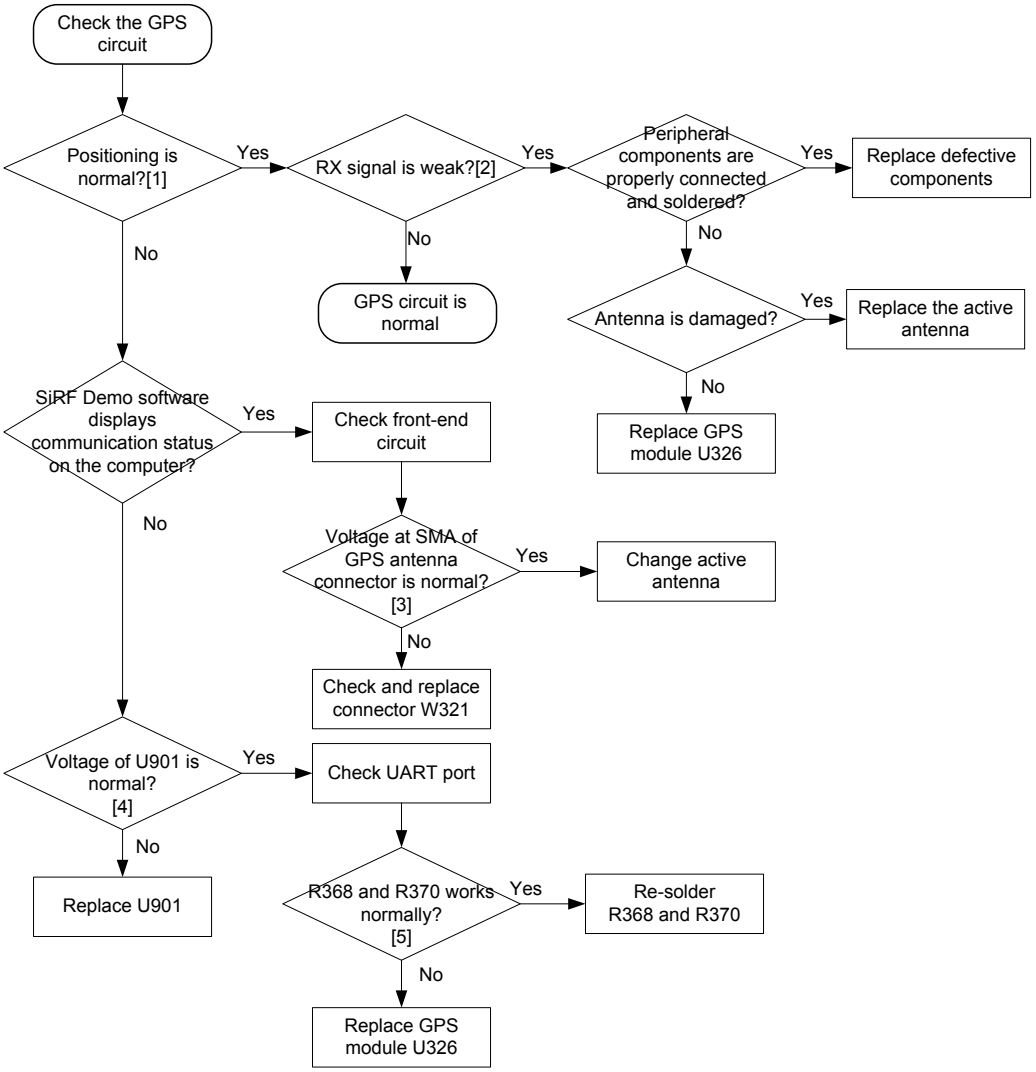
[5] The output voltage of U902 is 5 V.

[6] The output voltage of U900 and U901 is 3.3 V.

[7] The output voltage of U903 is 1.8 V.

[8] The output voltage by U919 is 1.6V.

6.2 GPS Circuit



Description of normal situations:

[1] The satellite signal is received properly.

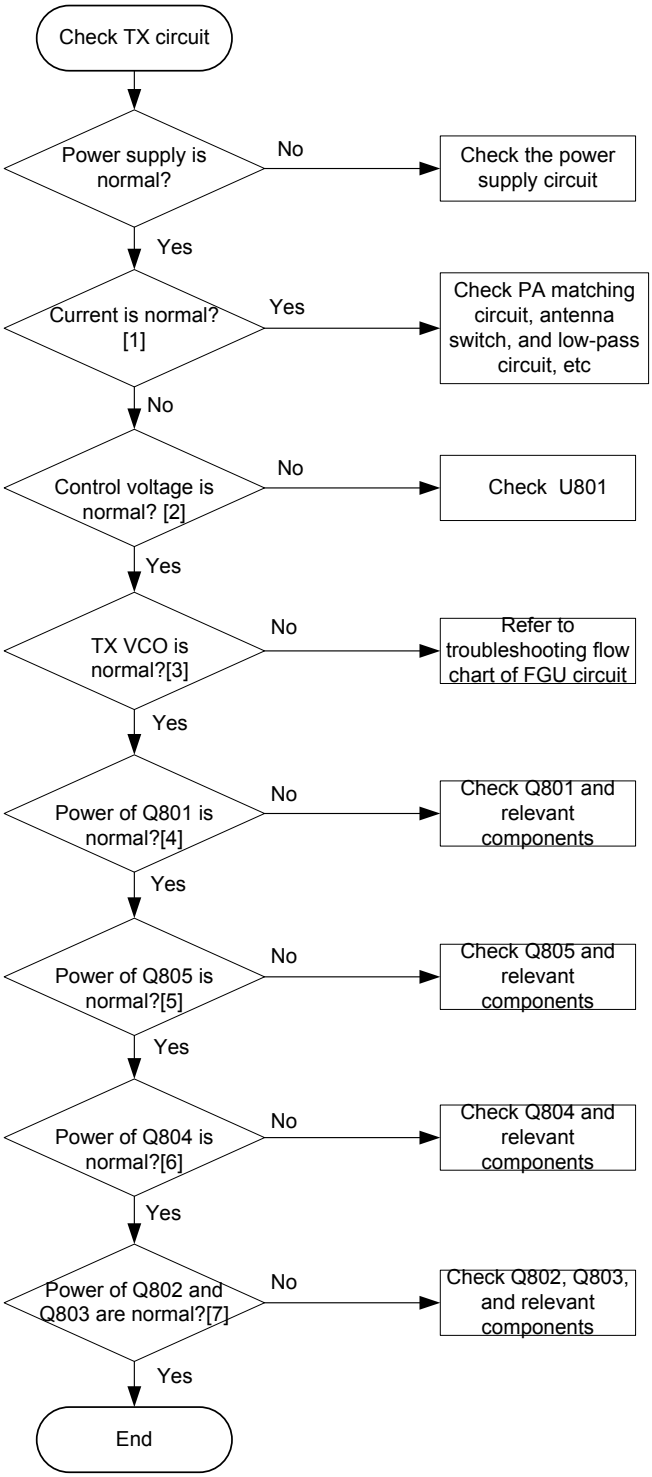
[2] The sensitivity is less than -130 dBm.

[3] Voltage at SMA of GPS antenna connector ranges from 3.2 to 3.35 V.

[4] The output voltage of U901 is 3.3 V.

[5] R368 and R370 have no soldering defects.

6.3 TX Circuit



Description of normal situations:

[1] In analog mode, the current is above 4 A under 25 W, above 7 A under 45 W, and 1 A under 5 W. However, in digital mode, the current will be reduced by 50%.

[2] The voltage at TP811 is above 2 V.

[3] The output amplitude of the TX LO signal at TP803 is about 10 dBm. Make sure that the back-end

circuit is disconnected during test.

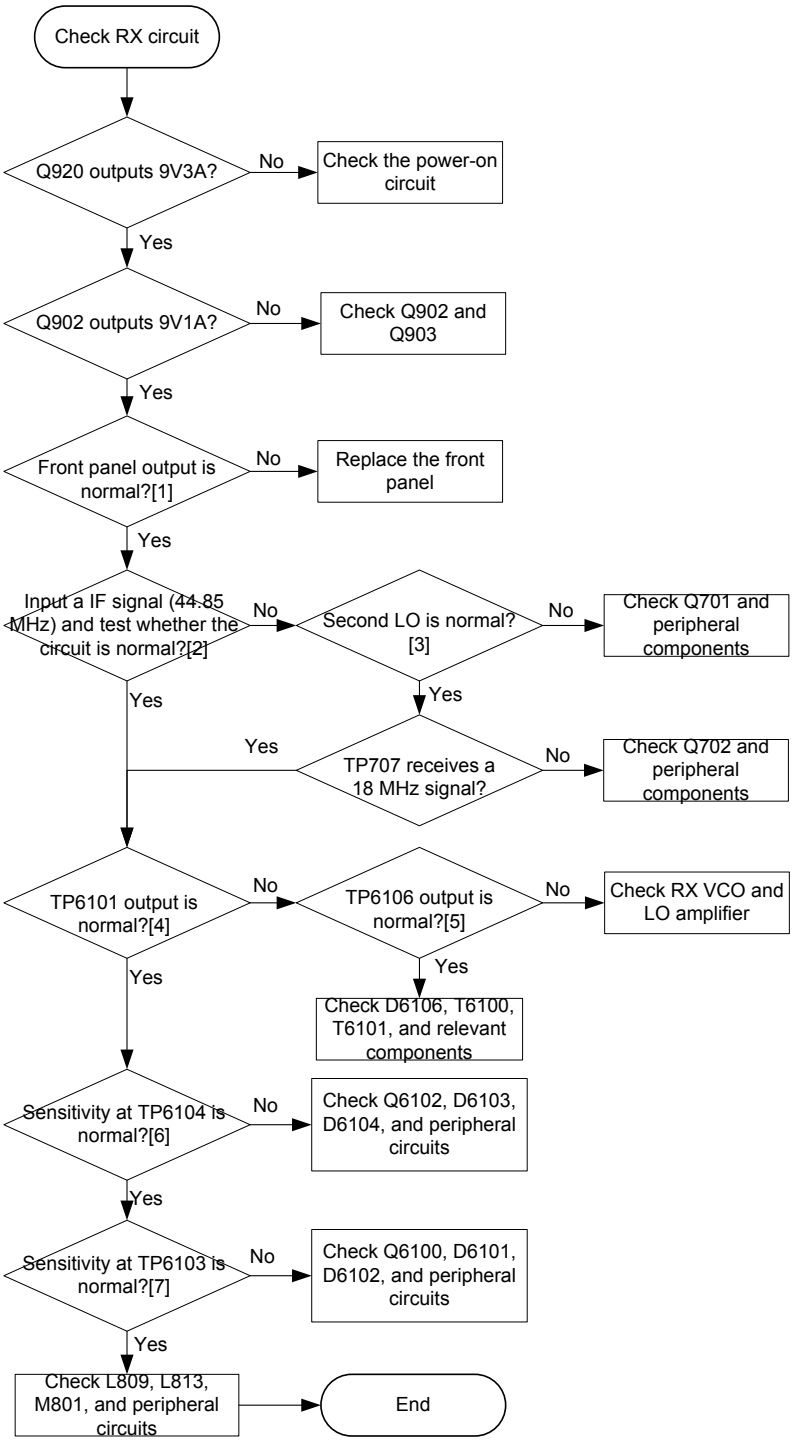
[4] The gain is 16 dB and the input signal is 0 dBm at Q801.

[5] The gain is 16 dB and the input signal is 0 dBm at Q805.

[6] The gain is 13 dB and the input signal is 0 dBm at Q804.

[7] The gain is 10 dB and the input signal is 0 dBm at Q802 and Q803.

6.4 RX Circuit



Description of normal situations:

[1] During sensitivity test, use a communication test set to demodulate the audio signal at TP4012 and TP4016. If the signal is demodulated normally, it is concluded that the front panel is defective.

[2] Use the communication test set to apply a 44.85MHz IF signal at the mixer, and sensitivity is about -117 dBm.

[3] There is a second LO signal (47.1 MHz) at TP704.

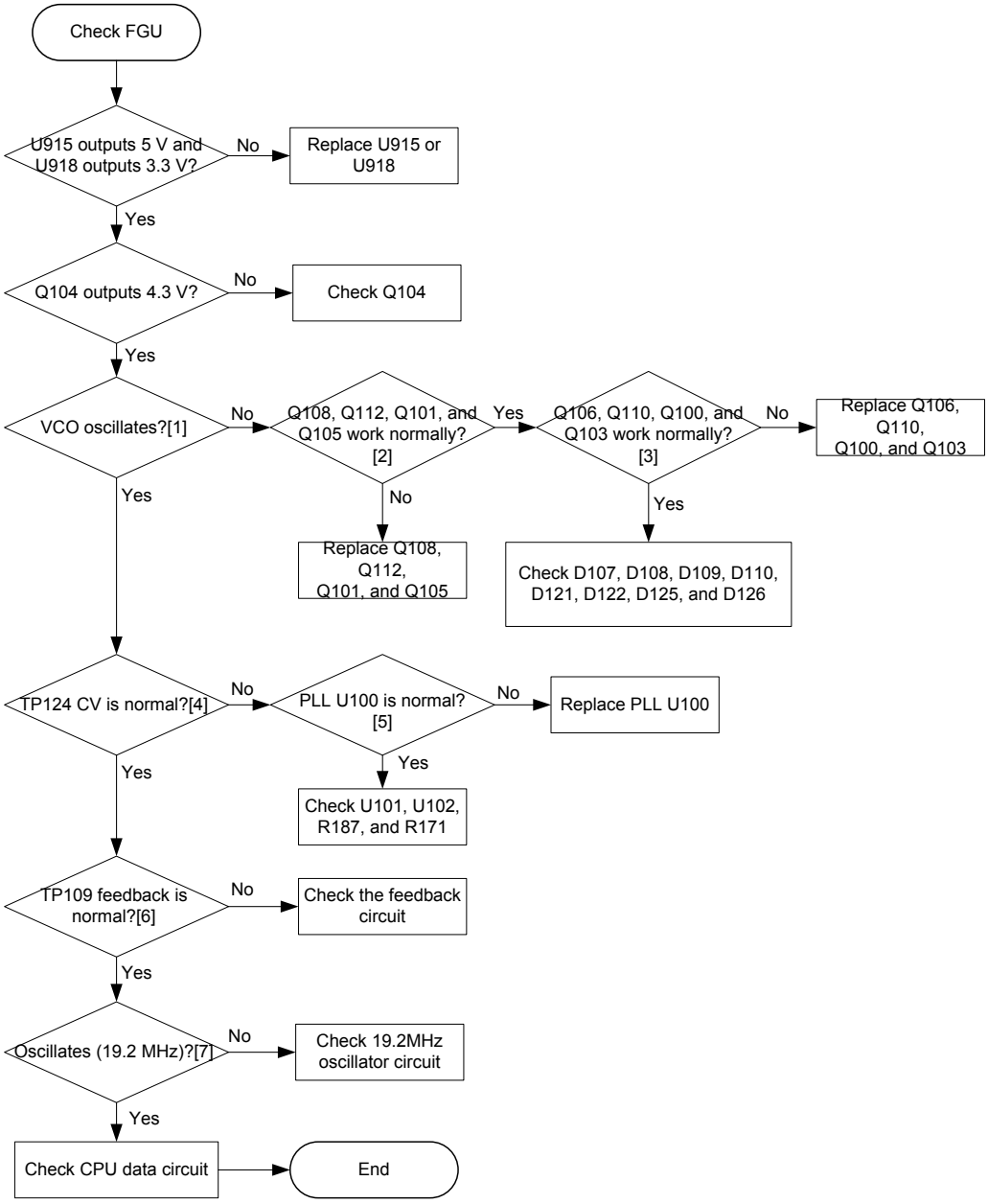
[4] Use the communication test set to apply an RF signal of -100 dBm, and the sensitivity at TP6101 is about -110 dBm

[5] The received LO signal at TP6106 is about 18 dBm.

[6] Use the communication test set to apply an RF signal of -110dBm, and the sensitivity at TP6104 is about -120 dBm.

[7] Use the communication test set to apply an RF signal of -110dBm, and the sensitivity at TP6103 is about -117 dBm.

6.5 Frequency Generation Unit (FGU)



Description of normal situations:

[1] The oscillation frequency of RX TP123 and TX TP111 can be detected.

[2] Q108, Q112, Q101, and Q105 are turned on and output about 4.3 V.

[3] The difference between the emitter voltage and base voltage as for Q106, Q110, Q100 and Q103 is about 0.7 V.

[4] The CV of TP124 ranges from 0.5 V to 4.5 V.

[5] PLL U100 is supplied by 5 V and 3.3 V normally.

[6] The power from TP109 to PLL is about -13 dBm.

[7] TP100 outputs 19.2 MHz signal.

7. Interface Definition

7.1 10-PIN Connector

The 10-pin connector on the front panel is used for audio accessories or data cable connection. The definition of each pin is described as below.

Pin No.	Name	Type	Signal Electrical Performance	Description
1	Accessory identification interface 1	Digital input	3.3V CMOS	Pin 1 and Pin 10 (accessory identifier port 2) compose an accessory identification matrix. Please refer to the "10-pin Accessory Identification Matrix Table" below for detailed function definitions.
2	PTT input	Digital input	3.3V CMOS	PTT input for the palm microphone, which is valid at low level.
3	External audio output	Analog output	Load impedance>1 kΩ Vrms=600 mV±10%@1 kHz 60% system max. deviation	Accessory audio output. When "Mic Audio Output" is selected via CPS, this pin will output the received audio signal.
4	USB_D-	USB data cable-	USB data	When this pin is used for USB function, USB function of DB26 will be disabled.
5	GND	Ground cable	/	/
6	USB_VBUS	USB power supply	Power supply: 5 V; current limiting: 500 mA	This pin provides power supply to the USB accessory. It outputs a 5 V voltage when accessory identification code is 00|01|10, and outputs low level when the code is 11.

Pin No.	Name	Type	Signal Electrical Performance	Description
7	Mic input	Analog input	Modulation sensitivity Vrms=80 mV±10%@1 kHz 60%system max. deviation	Mic input for palm microphone
8	USB_D+	USB data cable+	USB data	When this pin is used for USB function, USB function of DB26 will be disabled.
9	HOOK	Digital input	3.3V CMOS	High level by default; valid at low level. HOOK and MONITOR functions: Press this key, the level changes from high to low. When palm microphone is detected or press the key of the palm microphone, this pin is used for HOOK function; when desktop microphone is detected, this pin is used for MONITOR function.
10	Accessory identification interface 2	Digital input	3.3V CMOS	Pin 10 and Pin 1 (accessory identification interface 1) compose an accessory identification matrix. Please refer to the "10-pin Accessory Identification Matrix Table" below for detailed function definitions.

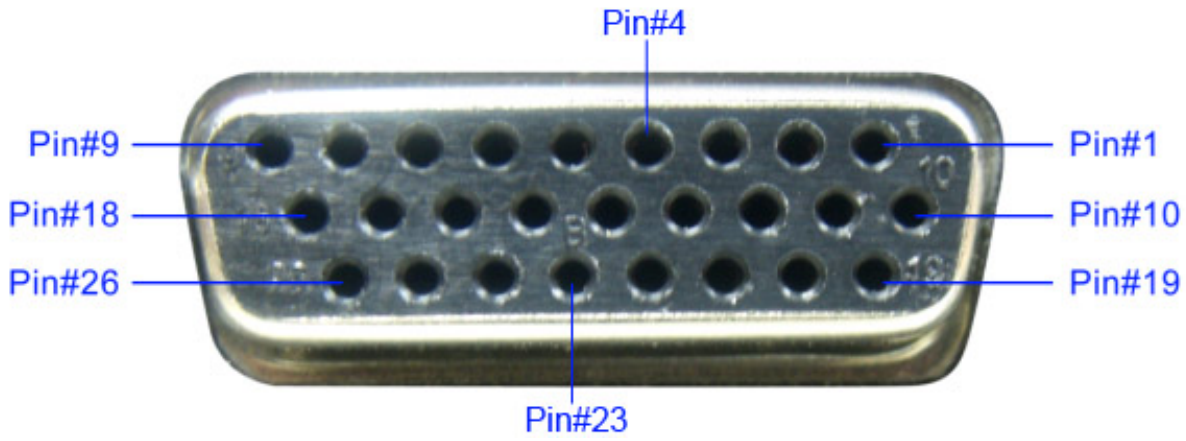
10-pin Accessory Identification Matrix Table (composed of Pin 1 and Pin 10):

Pin 1	Pin 10	Radio Status
Low Level	Low Level	Reserved
Low Level	High Level	The mobile radio is in USB master mode or connected to a USB smart accessory (such as palm microphone with keypad).

Pin 1	Pin 10	Radio Status
High Level	Low Level	The mobile radio is connected to an external speaker (including desktop microphone with earpiece).
High Level	High Level	The mobile radio is in USB slave mode, or it is not connected to any accessory, or it is connected to a palm microphone without keypad.

7.2 DB26 Accessory Interface

DB26 accessory interface, namely the 26-pin further development interface on the rear panel, is mainly used for accessory connection of mobile radio, or compatibility with other interfaces. Users can further develop the radio via this interface. The figure and definition of each pin is as follows.



Pin No.	Name	Type	Signal Electrical Performance	Description
1	Vbus USB power supply	Power output	Power supply: +5V; current limiting: 500 mA	Pin 1 and Pin 10 (accessory identification interface 2) compose an accessory identification matrix. This pin outputs a 5 V voltage when accessory identification code is 00|01|10, and outputs low level when the code is 11.
2	Ground	Power supply (grounding)	/	/
3	GP5_3 (Chan_Act)	GPIO	5V TTL	GPIO. Programmable via CPS.

Pin No.	Name	Type	Signal Electrical Performance	Description
4	SWB+	Power output	Power supply :13.2V±15%; output current≤1 A	Power output: 13.2 V; output current: ≤1 A
5	External Alarm	Analog voltage output	13 V alarm output	Programmable output pin (“External Horn & Lights” feature by default, programmable via CPS).
6	Power Ground	Power supply (grounding)	/	/
7	TX Audio	Analog signal input	Vrms=80mV±10%@1 kHz 60% system max. deviation	This pin is used for signal input of external MIC. The audio path is valid when the external Mic PTT is held down.
8	RX Audio	Analog signal output	Load impedance>1 kΩ Vrms=300mV±10%@1 kHz 60% system max. deviation	Default output is 300 mV. The output signal amplitude can be changed by modifying the “Analog RX Gain” value via CPS.
9	SPK-	Analog output	It forms differential output together with SPK+. Max power output: 10 W(R=8 Ω)	External speaker output-
10	D+	USB data cable+	USB data	USB data cable+
11	USB_GROUND	Ground cable	/	/
12	GP5_2 (Monitor)	GPIO	5V TTL	GPIO. Programmable via CPS; Monitor feature by default.
13	ACC_IO2	Digital input	5V TTL	Accessory identification interface; high level by

Pin No.	Name	Type	Signal Electrical Performance	Description
				default. This pin and Pin 15 (ACC_IO3) can compose three accessory identification statuses. Please refer to the "DB26 Accessory Identification Matrix Table" below for detailed function definitions.
14	Emerg Sw	Digital input	5V TTL	Emergency switch. This pin is valid when low level is input.
15	ACC_IO3	Digital input	5V TTL	Accessory identification interface; high level by default. This pin and Pin 13 (ACC_IO2) can compose three accessory identification statuses. Please refer to the "DB26 Accessory Identification Matrix Table" below for detailed function definitions.
16	PRGM_IN_PTT	Digital input	5V TTL	Programmable input pin (**PTT** key of external Mic by default; its function is programmable via CPS). It is valid at low level.
17	Audio Ground	Audio (grounding)	/	/
18	SPK+	Analog signal output	It forms differential output together with SPK-. Max power output: 10 W(R=8 Ω)	External speaker output+

Pin No.	Name	Type	Signal Electrical Performance	Description
19	D-	USB data cable-	USB data	USB data cable-
20	GP5_8	Digital input/output	5V TTL	GPIO. Programmable via CPS.
21	Ground	Ground cable	/	/
22	GP5_7	Digital input/output	5V TTL	GPIO. Programmable via CPS.
23	GP5_6	Digital input/output	5V TTL	GPIO. Programmable via CPS.
24	AUX Audio Out 1	Analog output	Load impedance>1 kΩ Vrms=300 mV±10%	Auxiliary audio (external speaker) output 1
25	AUX Audio Out 2	Analog output	Load impedance>1 kΩ Vrms=300 mV±10%	Auxiliary audio (external speaker) output 2
26	Ign Sense Detect Pin	Analog voltage input	Ignition voltage input>7 V	Input pin for ignition voltage

Note

When a pin is marked with 5 V TTL level, this pin has the pull-up function. If the pin needs to be set to high level, empty this pin.

DB26 Accessory Identification Matrix Table (composed of Pin 13 and Pin 15):

Pin 13	Pin 15	Radio Status
High Level	High Level	Default status. The mobile radio is in USB slave mode or not connected to any accessory.
High Level	Low Level	The mobile radio is in USB master mode or connected to a USB smart accessory (such as palm microphone with keypad).
Low Level	High Level	The mobile radio is connected to an external speaker (including desktop microphone with earpiece).
Low Level	Low Level	Reserved

7.3 Other Interfaces

J2 (LCD Display Interface)

Pin No.	Name	Description
1	GND	Grounding pin
2	VCI	2.5-3.3 V adjustable port
3	VCI	2.5-3.3 V adjustable port
4	IOVCC	1.65-3.3 V adjustable I/O port
5	FLM	Synchronization signal control port
6	CS	Chip select signal
7	RS	Register select
8	WR	Write signal
9	RD	Read signal
10	DB0	Data bus
11	DB1	
12	DB2	
13	DB3	
14	DB4	
15	DB5	
16	DB6	
17	DB7	
18	DB8	
19	DB9	
20	DB10	
21	DB11	
22	DB12	
23	DB13	

Pin No.	Name	Description
24	DB14	
25	DB15	
26	DB16	
27	DB17	
28	RESET	Reset signal
29	IM3	Select data cable
30	IM0	
31	LEDA	LED anode
32	LED_K1	LED cathode
33	LED_K2	
34	LED_K3	

J4 (Aviation Interface of Front Panel)

Pin No.	Name	Description
1	ACC_IO1	Digital input
2	PTT_IN	Digital input
3	External_Audio	Analog output
4	USB_D-	USB data cable
5	GND	Ground cable
6	USB_VBUS	Power supply
7	MIC_IN	Analog input
8	USB_D+	USB data cable
9	HOOK	Hook signal input
10	ACC_IO2	Digital input

J400 (Option Board Interface)

Pin No.	Signal	Function	I/O of the Radio	Voltage(Option Board VDD=3.3 V)	Remark

Pin No.	Signal	Function	I/O of the Radio	Voltage(Option Board VDD=3.3 V)	Remark
1	GPIO1	GPIO	I/O	VIH MIN=0.7VDD VIL MAX=0. 3VDD VOH MIN=0.8VDD VOL MAX=0.22VDD	GPIO5: Reset the output signal of the option board. GPIO4/GPIO5: Uni-directional output interfaces. They require the input resistances to be larger than or equal to 47 kΩ.
3	GPIO2				
5	GPIO3				
7	GPIO4		O		
9	GPIO5	RESET-OUT	O		
11	UART-TX	UART	O		UART.
13	UART-RX		I		
15	UART-CTS		I		
17	UART-RTS		O		
2	I2C –SDA	I2C	I/O		I2C.
4	I2C -SCL		O		
6	MCBSP-DR	MCBSP	I		McBSP: Multi-channel Buffered Serial Port
8	MCBSP-WCLK		I/O		
10	MCBSP-DX		O		
12	MCBSP-FSX		I/O		
14	AGND	AGND	/	/	/
16	AF OB TO MB	AF	I	80 mV (standard output from the option board to the main board)	MAX: 700mV.
18	AF MB TO OB	AF	O	80 mV (standard output from the main board to the option board)	MAX: 700mV.
19	DGND	DGND	/	/	/

Pin No.	Signal	Function	I/O of the Radio	Voltage(Option Board VDD=3.3 V)	Remark
20	3V6 or 5V	Power	O	Power Voltage: 5.0 V	/

J403 (Pin Interface)

Pin No.	Name	Description
1	Vbus USB	Power supply: +5V
2	Ground	Ground cable
3	GP5_3	Digital input/output
4	SW B+ sense	Power supply
5	External Alarm	Analog voltage output
6	Power Ground	Power supply (grounding)
7	Tx Audio	Analog input
8	RX Audio	Analog output
9	Spkr-	Analog output
10	D+ USB	USB data cable+
11	USB_GROUDN	Ground cable
12	GP5_2	Digital input/output
13	ACC_IO2	Digital input
14	Emerg Sw	Digital input
15	ACC_IO3	Digital input
16	PRGM_IN_PTT	Digital input
17	Audio Ground	Audio (grounding)
18	Spkr+	Analog output
19	D- USB	USB data cable-
20	GP5_8	Input/output
21	Ground	Ground cable
22	GP5_7	Input/output

Pin No.	Name	Description
23	GP5_6	Digital input/output
24	AUX Audio Out 1	Analog output
25	AUX Audio Out 2	Analog output
26	Ign Sense	Analog voltage input

J404 (Front Panel Interface)

Pin No.	Name	Description
1	INT_MIC	Audio Input
2	MIC_GROUND	Audio Input (grounding)
3	ACC_IO1	Accessory identification interface 1
4	USB_VBUS	USB power supply
5	HOOK	HOOK
6	PTT	PTT
7	USB_D-	USB data cable D-
8	USB_D+	USB data cable D+
9	ACC_IO2	Accessory identification interface 2
10	UART2_RXD_A	Volume control port
11	UART2_TXD_B	/
12	EXTERNAL_AUDIO	Audio signal output by accessory (mobile radio)
13	SPKR1+	Speaker audio signal cable+
14	SPKR1-	Speaker audio signal cable-
15	5VD	Power supply
16	PRST	Reset signal
17	KB_C0	Matrix keypad
18	KB_C1	
19	KB_C2	

Pin No.	Name	Description
20	KB_C3	
21	KB_R0	
22	KB_R1	
23	KB_R2	
24	CSLED	Backlight control IC chip select
25	CLOCK	Backlight control IC clock
26	DATA	Backlight control IC data
27	OE_LCD	LCD read enable
28	WE_LCD	LCD write enable
29	CS2_LCD	LCD chip select
30	F_A1_LCD	LCD register select enable
31	F_D7	LCD data bus
32	F_D6	
33	F_D5	
34	F_D4	
35	F_D3	
36	F_D2	
37	F_D1	LCD data bus
38	F_D0	
39	GND	Grounding
40	PWB_IN	Power On/Off signal

8. Tuning Description

8.1 Required Test Instruments

- Radio communication test sets: HP8921 and Aeroflex 3920
- Power supply: 15 A/30 V
- Multimeter
- Tuner software

8.2 Tuning Procedures

8.2.1 Tuning the Radio

After re-assembling the radio, you need to tune it with the Tuner software and HP8921.

The specific operations are described in the table below. After tuning the items of the current channel, you must switch the radio to the next channel; otherwise, the adjustments will not be saved to the radio properly.

Items	Method
TX Section	
Reference Oscillator Warp	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Reference Oscillator Warp” in the left navigation tree. Then click the “Transmit On” button. 3. Adjust the vernier on the Tuner until the frequency offset between the frequency displayed on HP8921 and the frequency (Tx) displayed on Tuner is less than or equals to ±40 Hz. 4. Click the “Save” button on Tuner to save the existing value to the radio. 5. Click the “Transmit Off” button on Tuner.
Transmit Power Calibration	Here takes the tuning of low TX power for example. 1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit Power Calibration” in the left navigation tree. Then

Items	Method
	select an appropriate channel. 3. Click the “Transmit On” button on Tuner. 4. Adjust the power to the required level as follows: Low power: 1 W for version C, and 5 W for version D and the later Medium power: 25 W High power: 50 W for radio with power of 50 W, and 25 W for radio with power of 25 W 5. Click the “Save” button on Tuner to save the existing value to the radio.
Transmit-to-Deviation	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Set HP8921 as follows: IF Filter: 230 kHz Filter1: <20 Hz HPF Filter2: <15 kHz LPF De-Emphasis: off 3. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit-to-Deviation” in the left navigation tree. Then click the “Transmit On” button. Then set the modulation signal of HP8921 to “100 Hz”. 4. Adjust the vernier on Tuner until the frequency deviation displayed on HP8921 is “5 kHz”. 5. Click the “Save” button on Tuner to save the existing value to the radio. 6. Click the “Transmit Off” button on Tuner.
Modulation Balance	Here takes the low frequency deviation for example. 1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Set the HP8921 parameters as follows: IF Filter: 230 kHz

Items	Method
	Filter1: <20 Hz HPF Filter2: <15 kHz LPF De-Emphasis: off 3. Open the Tuner software and go to “TUNE_DATA -> TX -> Modulation Balance” in the left navigation tree. Then select an appropriate channel. 4. Click the “Transmit On” button on Tuner. Then set the modulation signal of HP8921 to “100 Hz”. 5. Adjust the value in the dialog box on Tuner until the frequency deviation displayed on HP8921 is “5 kHz”. 6. Press the **Enter** key on the keyboard to confirm your settings. 7. Click the “Save” button on Tuner to save the existing value to the radio. 8. Click the “Transmit Off” button on Tuner.
Transmit Oscillator Voltage	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to TX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> TX -> Transmit Oscillator Voltage” in the left navigation tree. 3. Click the “Save” button to save the existing value to the radio.
RX Section	
Front-end Filter	1. Connect the radio to HP8921 via the antenna connector. 2. Connect the Audio Out port of the radio to the Audio In port of HP8921, and set HP8921 to RX test mode. 3. Set the HP8921 parameters as follows: Output RF signal: -118 dBm/Frequency (current channel frequency) Modulation frequency: 1 kHz Modulation deviation: 3 kHz 4. Open the Tuner software and go to “TUNE_DATA -> RX -> Front-end Filter” in the left navigation tree. Adjust the vernier on Tuner until the “SINAD” value displayed on HP8921 is greater

Items	Method
	than 14 dB 5. Set the output RF signal of HP8921 to -25 Bm/(current channel frequency +22.425 MHz) 6. Adjust the vernier on Tuner until the “SINAD” value displayed on HP8921 is less than 14 dB. 7. Press the **Enter** key on the keyboard to confirm your settings. 8. Click the “Save” button on Tuner to save the existing value to the radio.
Front-end Gain	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to RX test mode. 2. Set HP8921 to output an unmodulated RF signal with a value of “-70 dBm/Frequency (current channel frequency)”. 3. Press the **Enter** key on the keyboard to confirm your settings. 4. Click the “Save” button on Tuner to save the existing value to the radio.
Receive Oscillator Voltage	1. Connect the radio to HP8921 via the antenna connector, and set HP8921 to RX test mode. 2. Open the Tuner software and go to “TUNE_DATA -> RX -> Receive Oscillator Voltage” in the left navigation tree. 3. Set HP8921 to output an unmodulated RF signal with a value of “-47 dBm/Frequency (current channel frequency)”. 4. Click the “Save” button to save the existing value to the radio.

8.2.2 Testing the Radio

After tuning all the items of the radio, you need to test the digital RF signal of the mobile radio via Aeroflex 3920 (Digital Radio Test set).

Transmitting

Step 1 Connect the mobile radio to Aeroflex 3920 via the antenna connector.

Step 2 Open the Tuner software and go to “TEST -> TX -> Transmit BER (0.153)”.

Step 3 Select the channel to be tested and select the corresponding power level (High Power or Low Power) in “Parameter” on Tuner.

Step 4 Click the “Transmit On” button on Tuner.

Step 5 Set the Aeroflex 3920 parameters as follows:

- Frq: Be consistent with the TX frequency of the channel to be tested.
- STD IB 511: .153

Step 6 Observe the “avg” value of “UUT TX Bit Err” parameter in “UUT Measurements” module of Aeroflex 3920, which is the average bit error rate of the tested channel during transmitting.

The mobile radio is operating properly when the Aeroflex 3920 parameters are as follows:

- FSK Error: ≤5%
- Symbol Clock Err: ≤100Hz
- Signal Power: 3.9 – 4.5W
- Magnitude Error: ≤1%
- UUT TX Bit Err = 0%

Step 7 Click the “Transmit Off” button on Tuner to finish testing.

Receiving

Step 1 Connect the antenna connector of the radio to the RF port of Aeroflex 3920, and set Aeroflex 3920 as follows (remain default values for other parameters):

- Frq: Be consistent with the frequency of the channel to be tested.
- STD IB 511: .153
- Lv1 (signal strength): -116 dBm (-110 dBm by default)

Step 2 Open the Tuner software and go to “TEST -> RX -> Receiver BER (0.153)”.

Step 3 Select the channel to be tested and click the “Start” button on Tuner.

Step 4 Observe the “Average Rate” displayed on Tuner.

You can set different “Average Num” (the calculation base of BER, which is “10” by default) to obtain different “Average Rate”.

Step 5 Modify the value of “Lv1” parameter of Aeroflex 3920, so as to obtain the average BERs of the tested channel under different signal strengths.

The mobile radio is operating properly when the average BER is less than 5%.

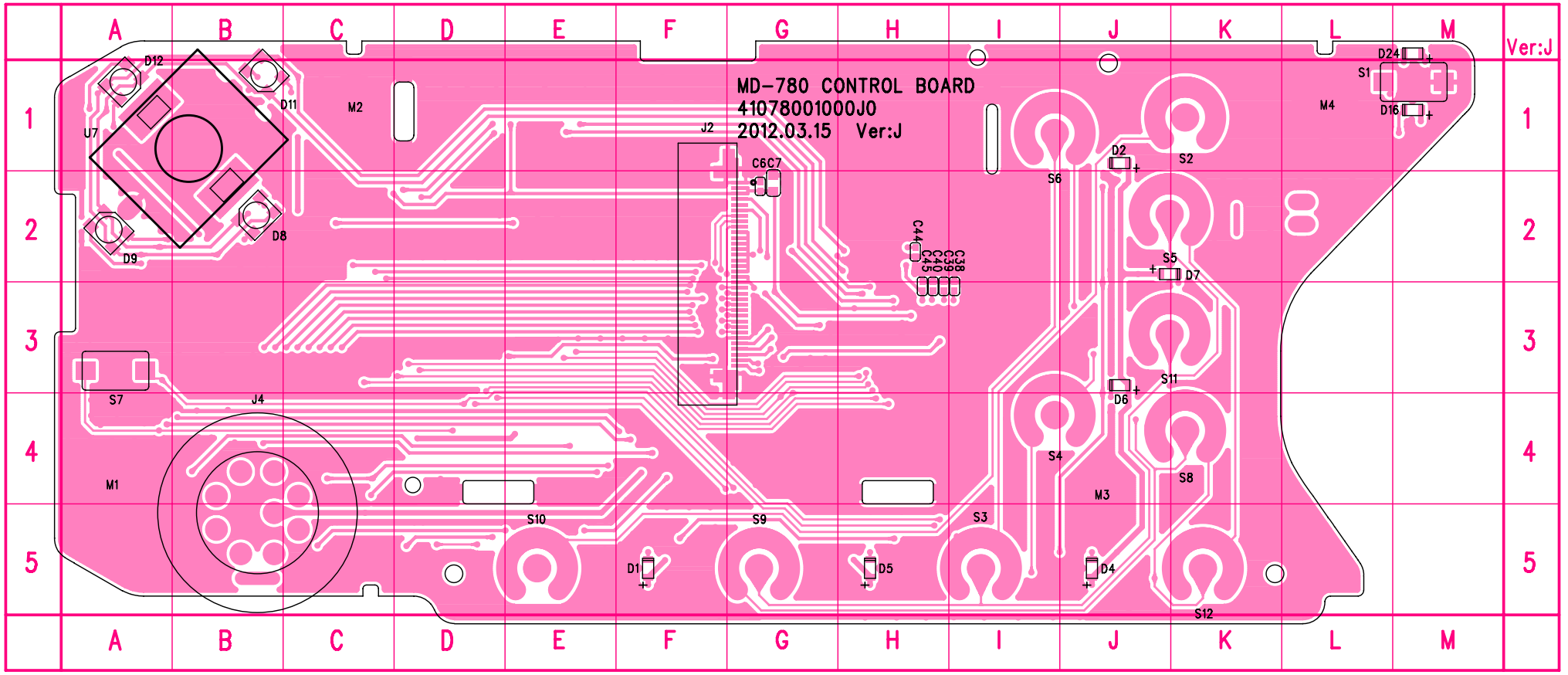
Note

When the parameter “Lv1” is set to “-110 dBm”, the mobile radio is operating properly when the average BER is less than 1%.

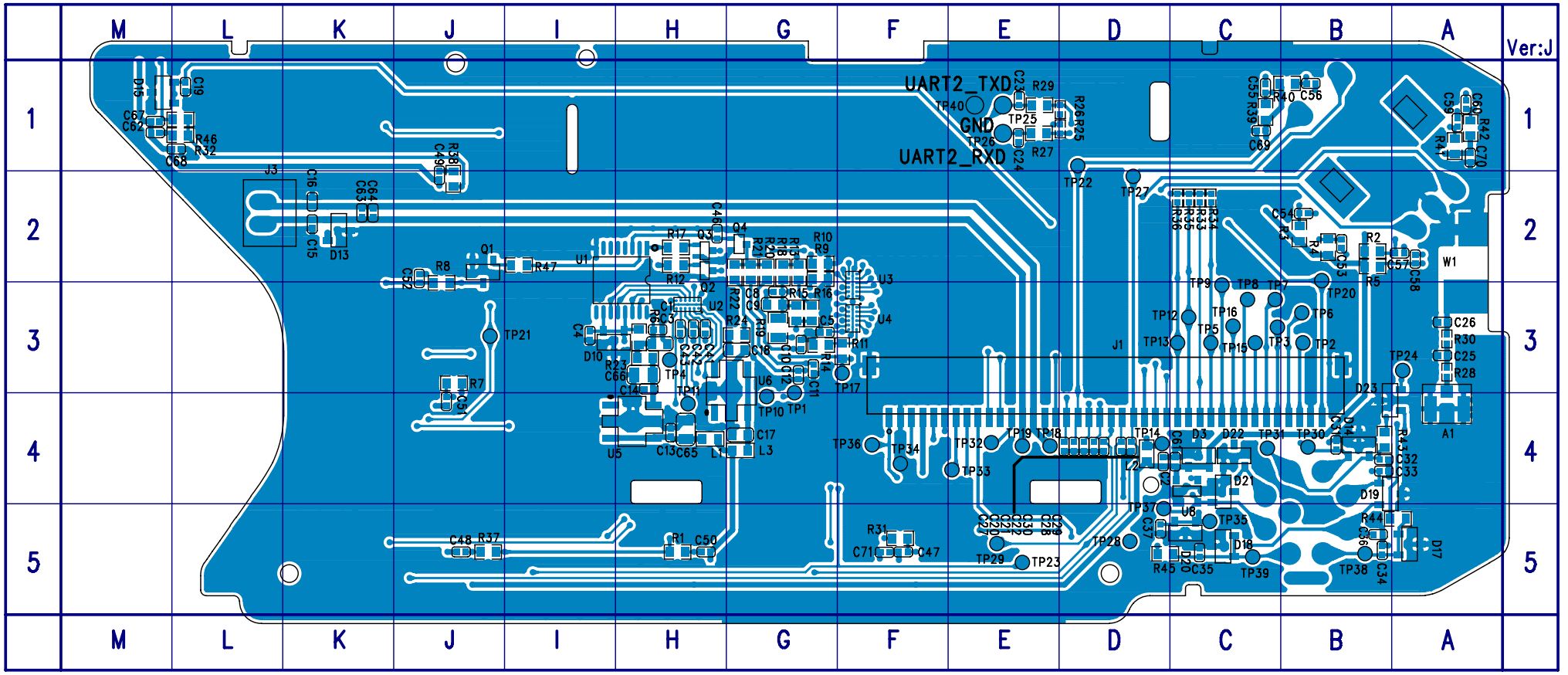
Step 6 Click the “Stop” button on Tuner to finish testing.

9. PCB View

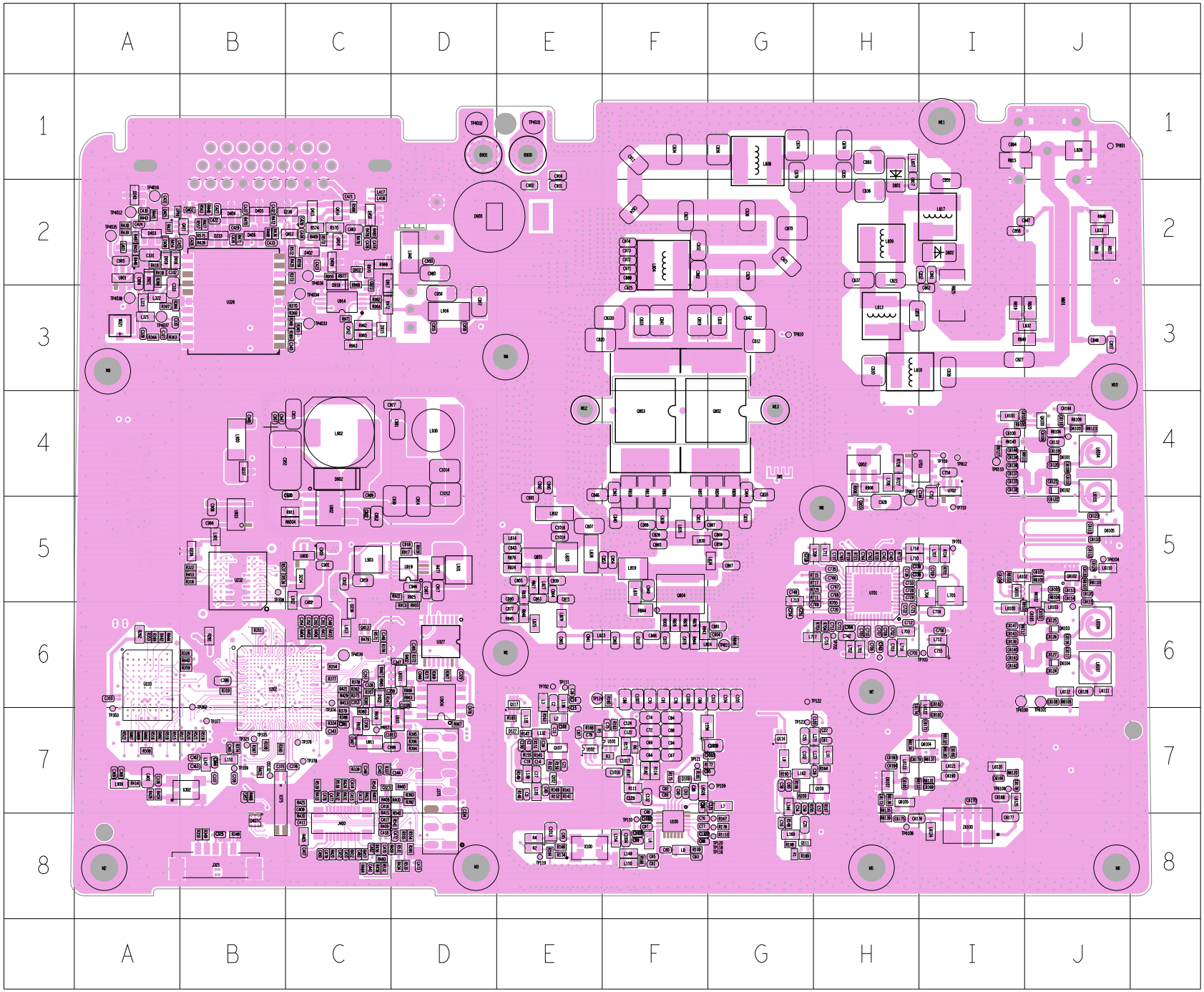
MD78X/MD78XG PCB View (Front Panel)
Top Layer



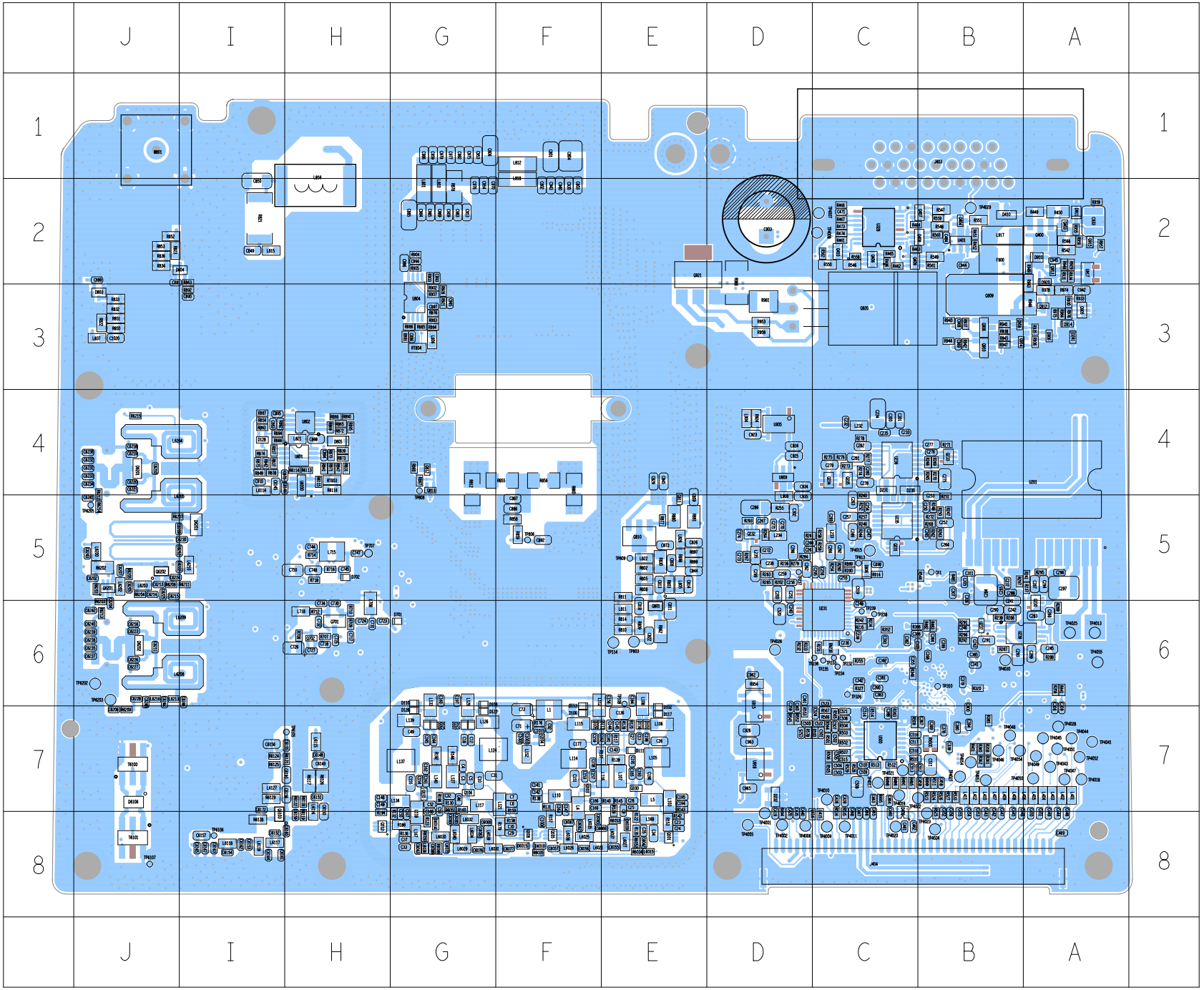
MD78X/MD78XG PCB View (Front Panel)
Bottom Layer



MD78X/MD78XG PCB View (Main Board)
Top Layer

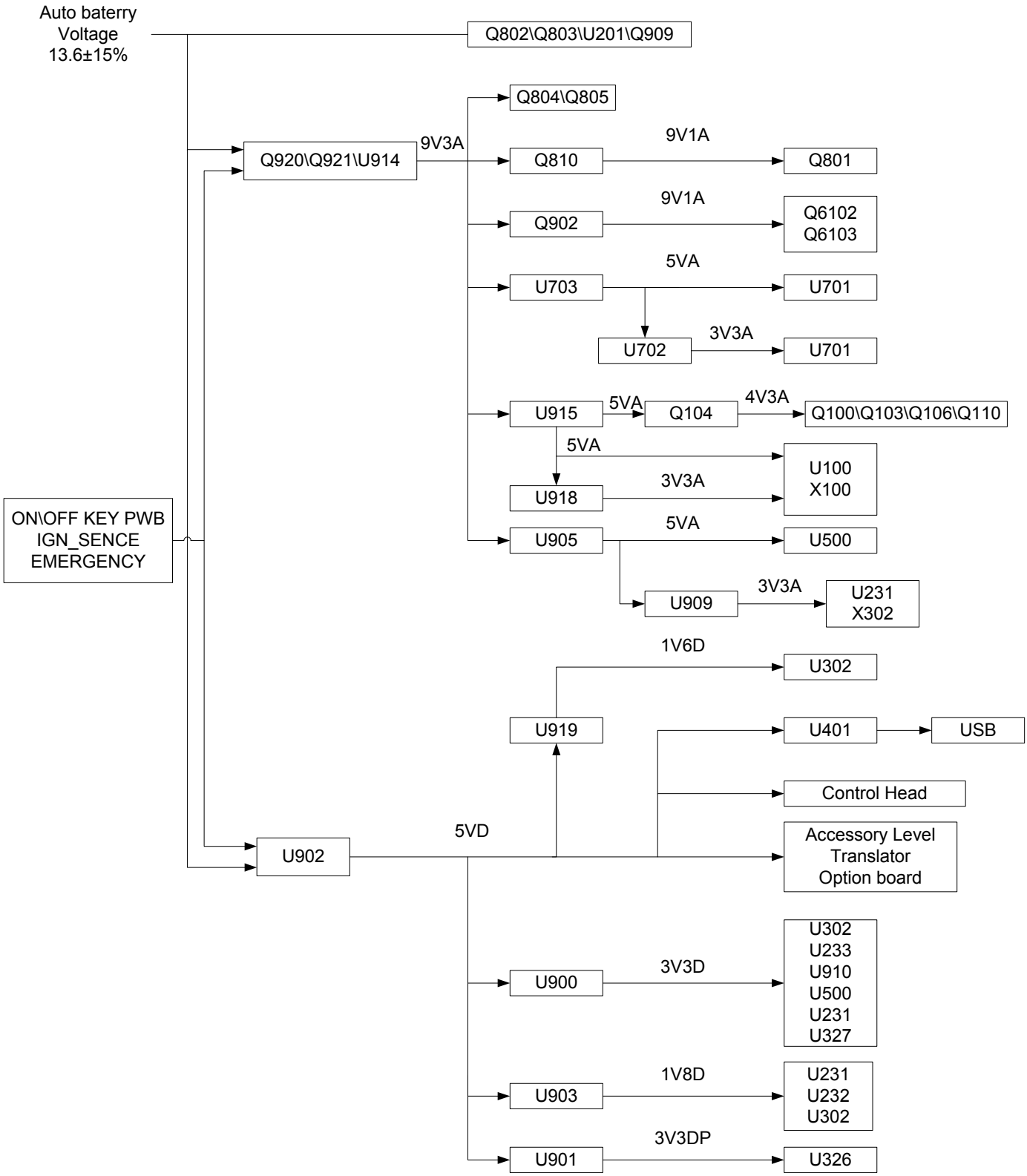


MD78X/MD78XG PCB View (Main Board)
Bottom Layer

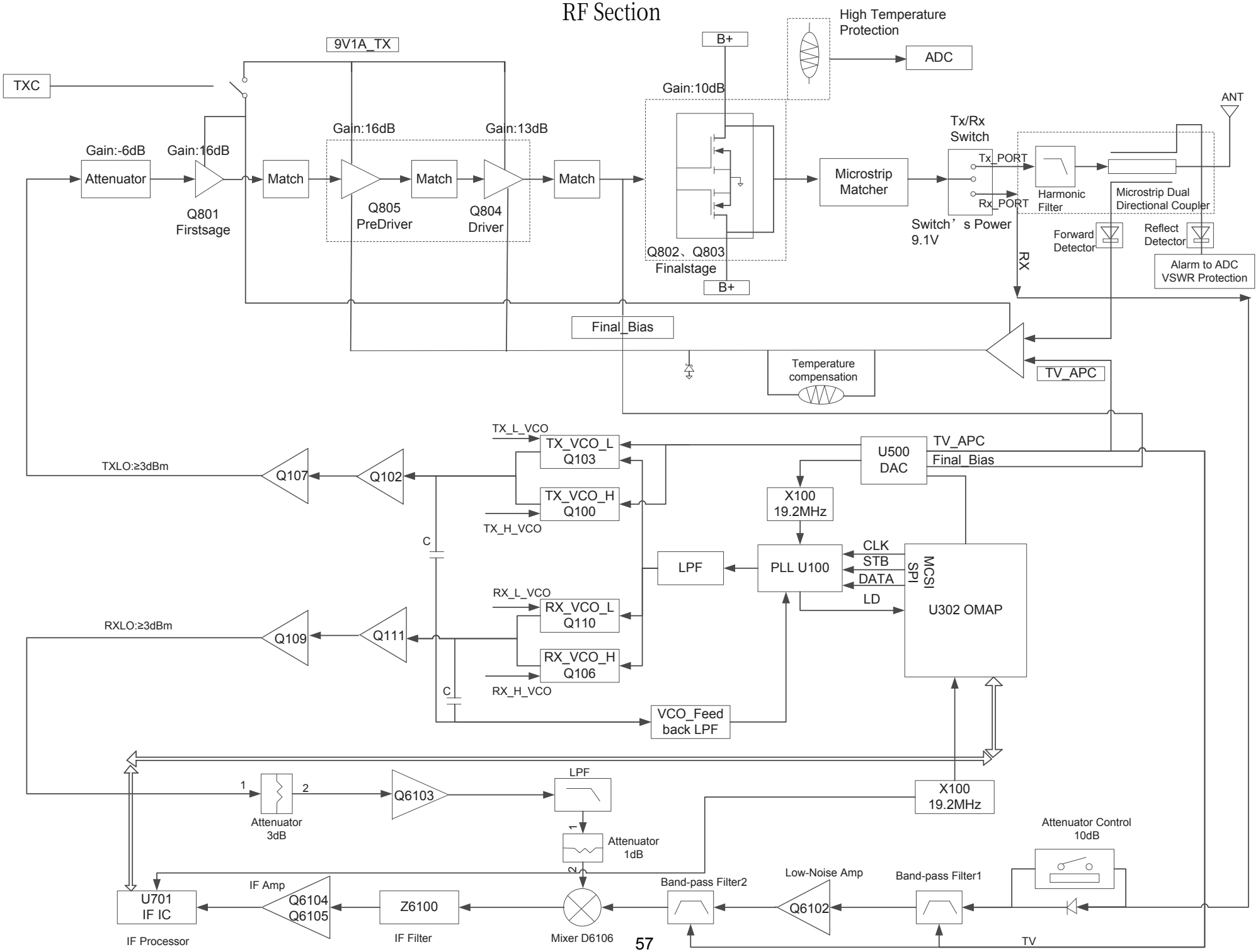


10. Block Diagram

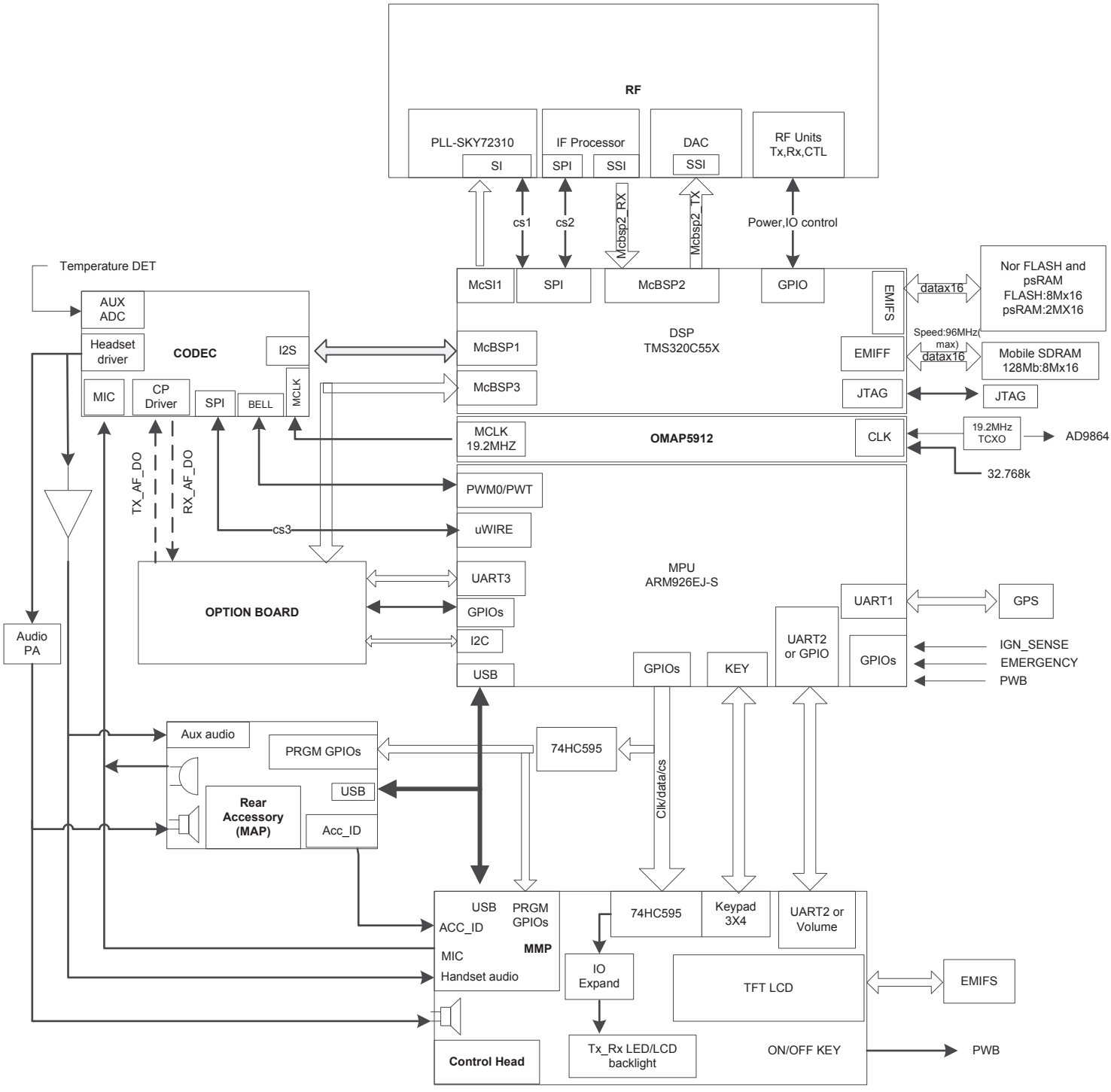
Power Section



RF Section

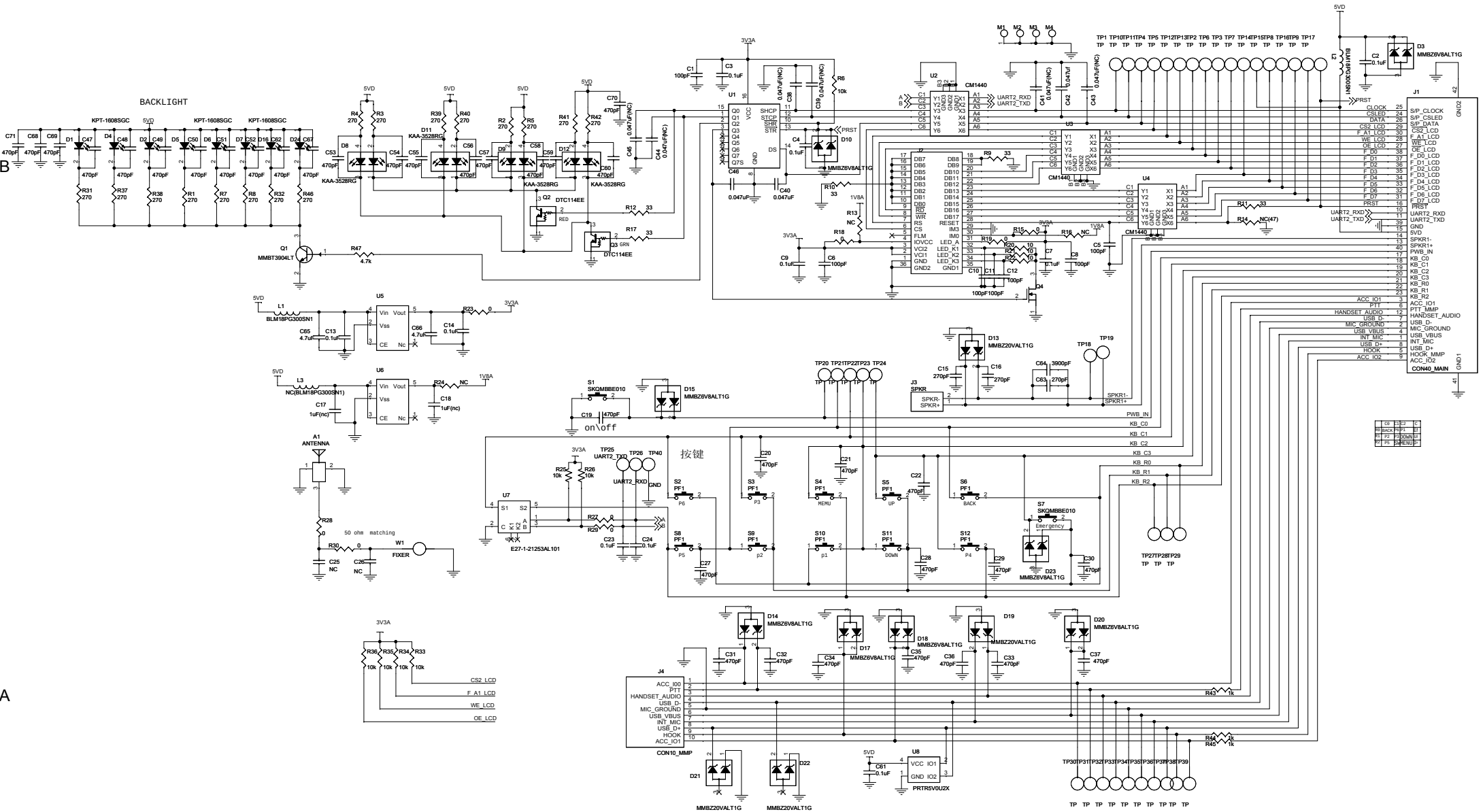

TXC
9V1A_TX
Gain:-6dB
Gain:16dB
Attenuator
Q801
Firstsage
Match
Gain:16dB
Gain:13dB
Q805
PreDriver
Match
Q804
Driver
Match
B+
Gain:10dB
Q802、Q803
Finalstage
B+
High Temperature
Protection
ADC
Microstrip
Matcher
Tx/Rx
Switch
Tx_PORT
Rx_PORT
Switch’s Power
9.1V
Harmonic
Filter
Microstrip Dual
Directional Coupler
ANT
Forward
Detector
Reflect
Detector
Alarm to ADC
VSWR Protection
RX
Final_Bias
Temperature
compensation
TV_APC
TX_L_VCO
TX_VCO_L
Q103
TX_VCO_H
Q100
TX_H_VCO
TXLO:≥3dBm
Q107
Q102
U500
DAC
TV_APC
Final_Bias
X100
19.2MHz
C
LPF
PLL U100
CLK
STB
DATA
LD
MCSI
SPI
U302 OMAP
RX_L_VCO
RX_VCO_L
Q110
RX_VCO_H
Q106
RX_H_VCO
RXLO:≥3dBm
Q109
Q111
C
VCO_Feed
back LPF
LPF
1
2
Attenuator
3dB
Q6103
Attenuator
1dB
X100
19.2MHz
Attenuator Control
10dB
IF Amp
Q6104
Q6105
Z6100
IF Filter
Mixer D6106
Band-pass Filter2
Low-Noise Amp
Q6102
Band-pass Filter1
U701
IF IC
IF Processor
TV

Baseband Section

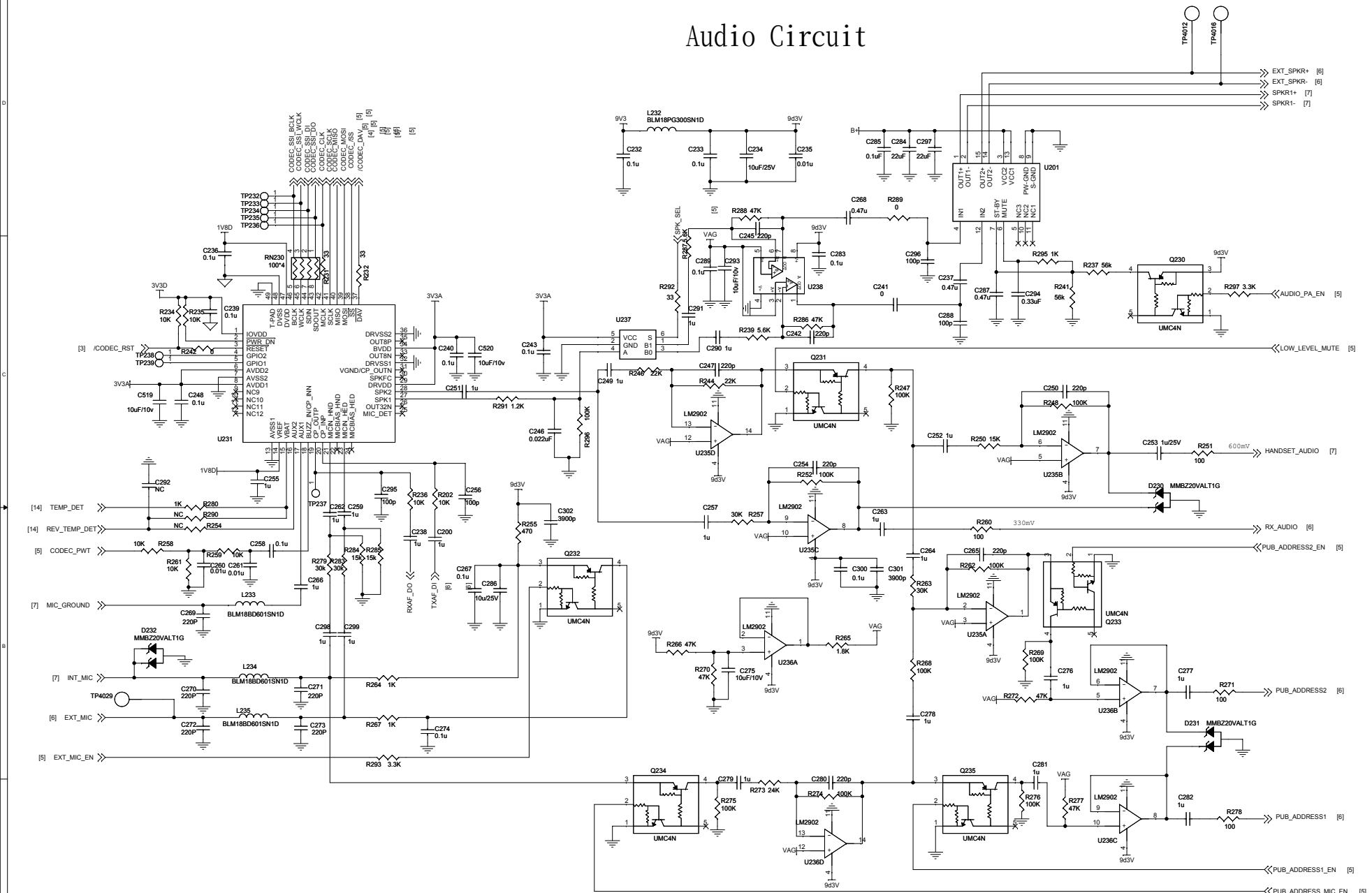


11. Schematic Diagram

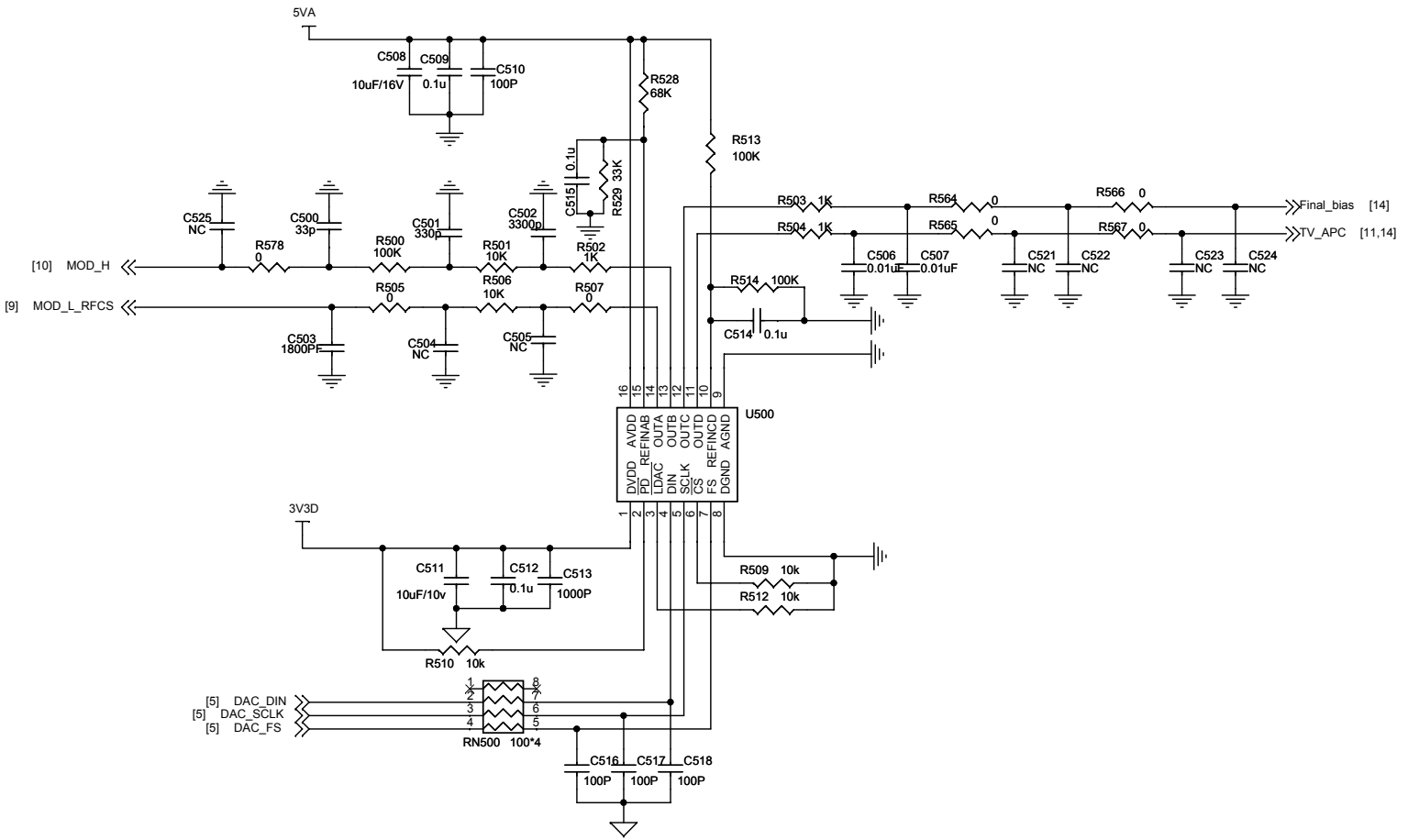
Front Panel Circuit



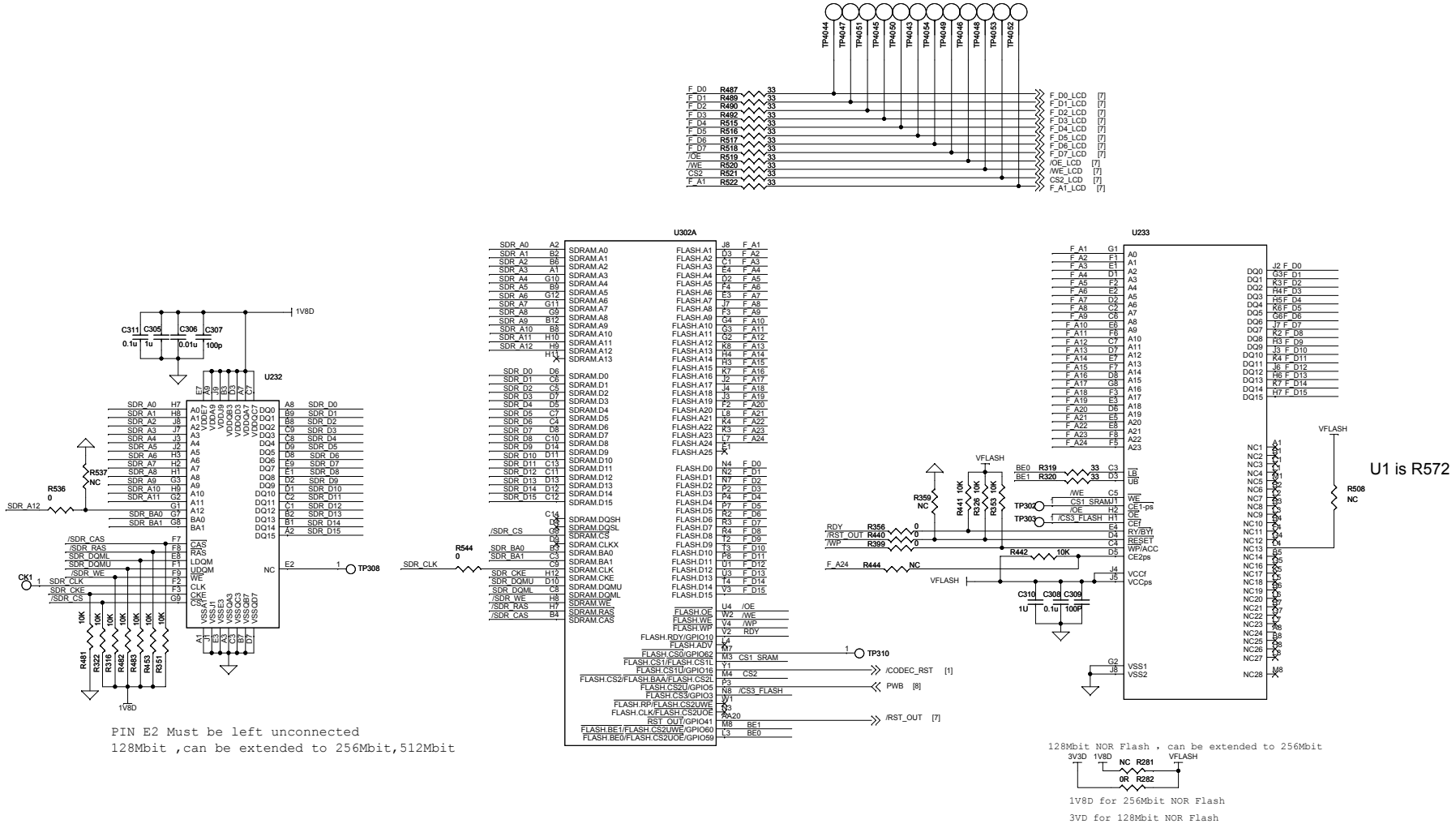
Audio Circuit



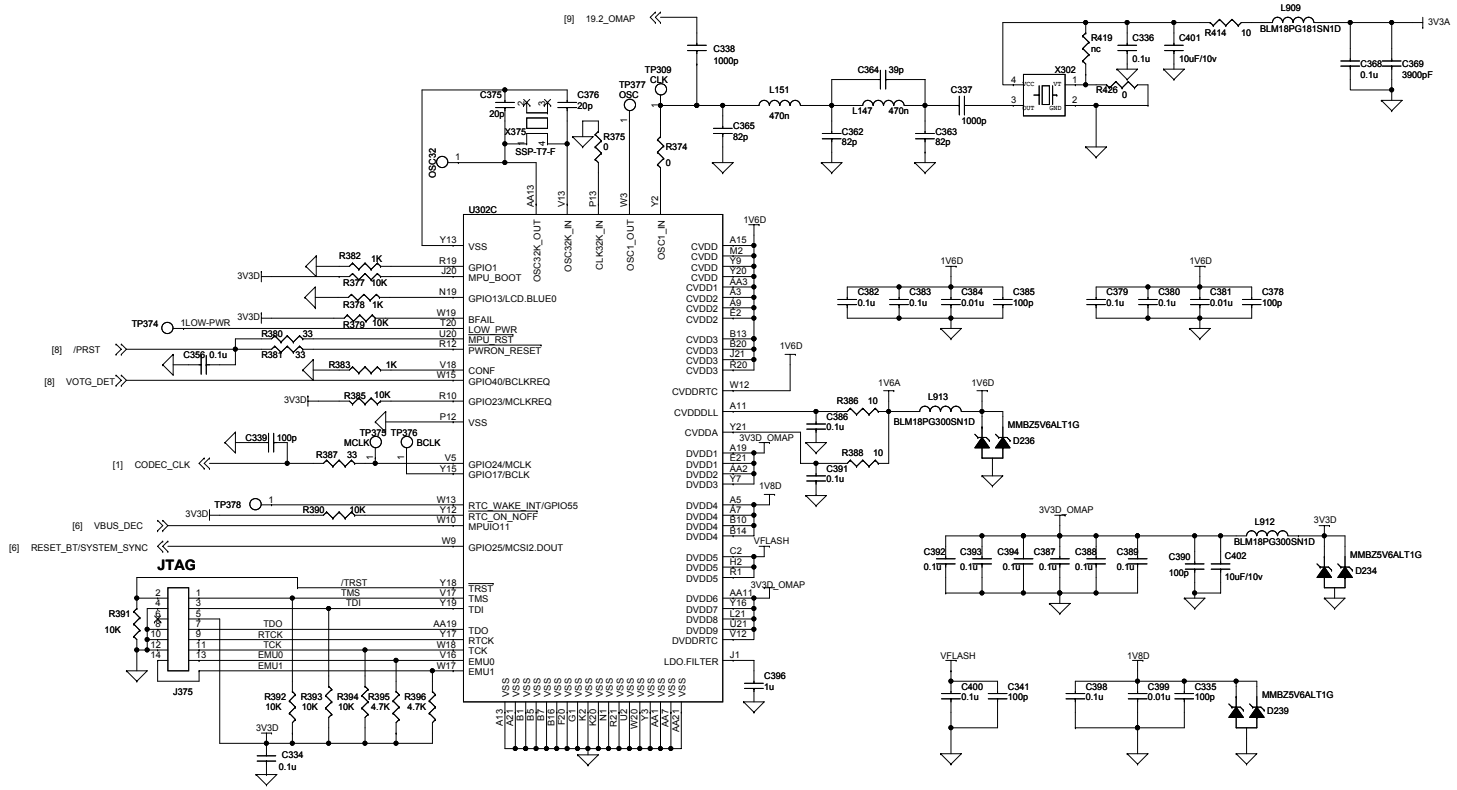
DAC Circuit


5VA
C508
10uF/16V
C509
0.1u
C510
100P
R528
68K
R513
100K
C515
0.1u
R529
33K
C525
NC
C500
33p
C501
330p
C502
3300p
R578
0
R500
100K
R501
10K
R502
1K
[10] MOD_H
[9] MOD_L_RFCS
R505
0
R506
10K
R507
0
C503
1800PF
C504
NC
C505
NC
R503 1K
R504 1K
R564 0
R565 0
R566 0
R567 0
Final_bias [14]
TV_APC [11,14]
C506
0.01uF
C507
0.01uF
C521
NC
C522
NC
C523
NC
C524
NC
R514 100K
C514 0.1u
U500
DVDD AVDD
PD REFINAB
LDAC OUTA
DIN OUTB
SCLK OUTC
CS OUTD
FS REFINCD
DGND AGND
3V3D
C511
10uF/10v
C512
0.1u
C513
1000P
R509 10k
R512 10k
R510 10k
[5] DAC_DIN
[5] DAC_SCLK
[5] DAC_FS
RN500 100*4
C516
100P
C517
100P
C518
100P

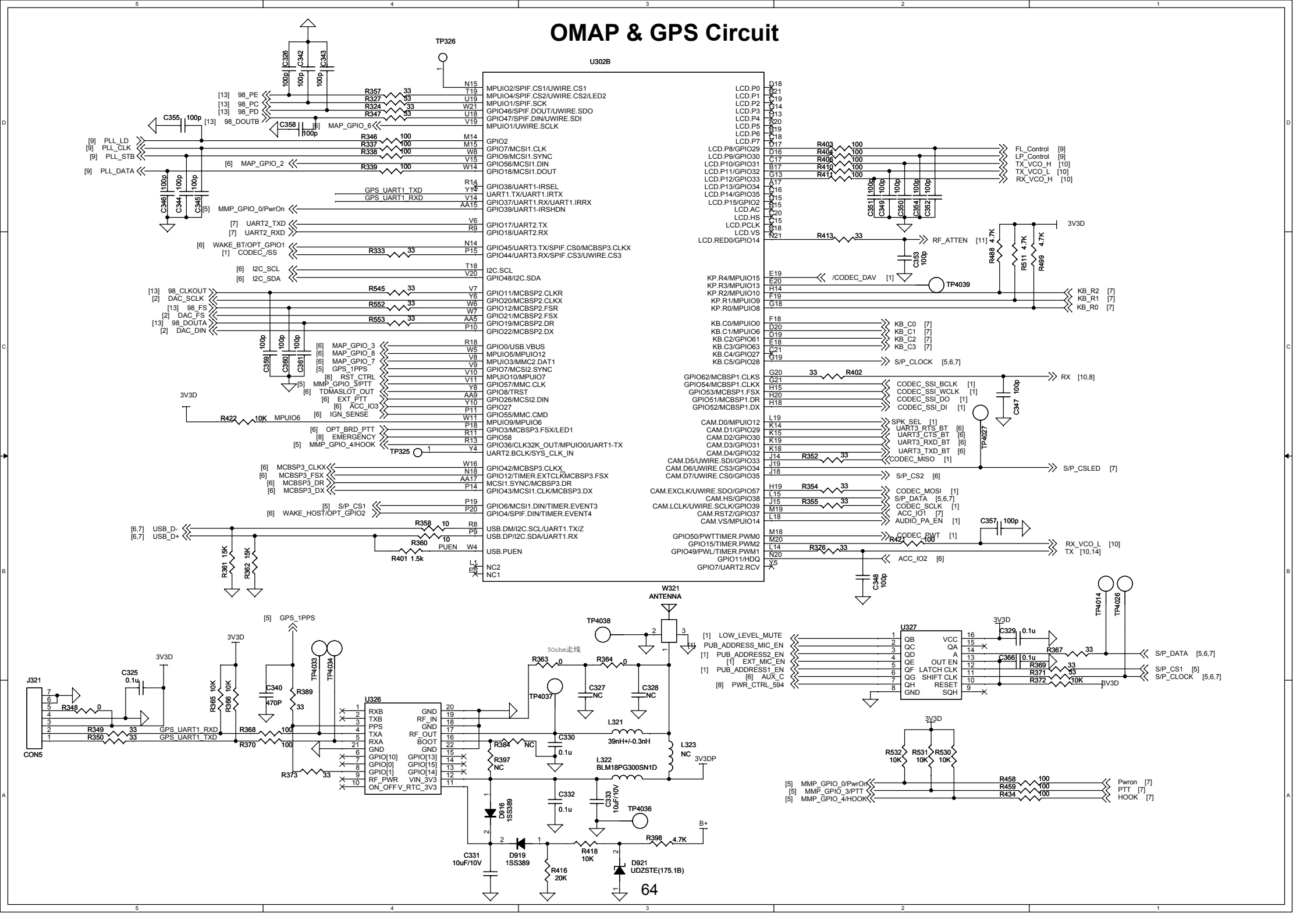
Memory Circuit



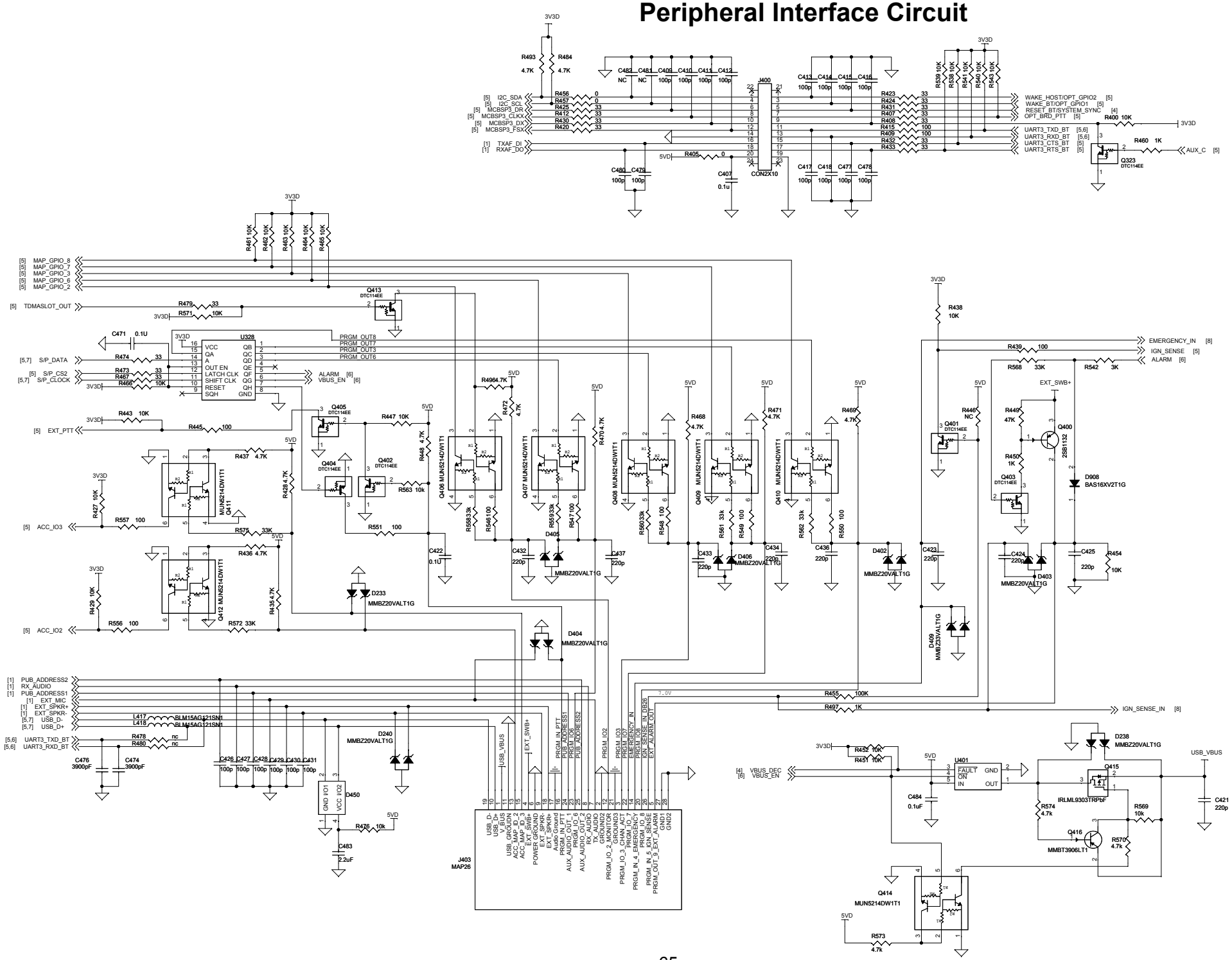
OMAP Circuit



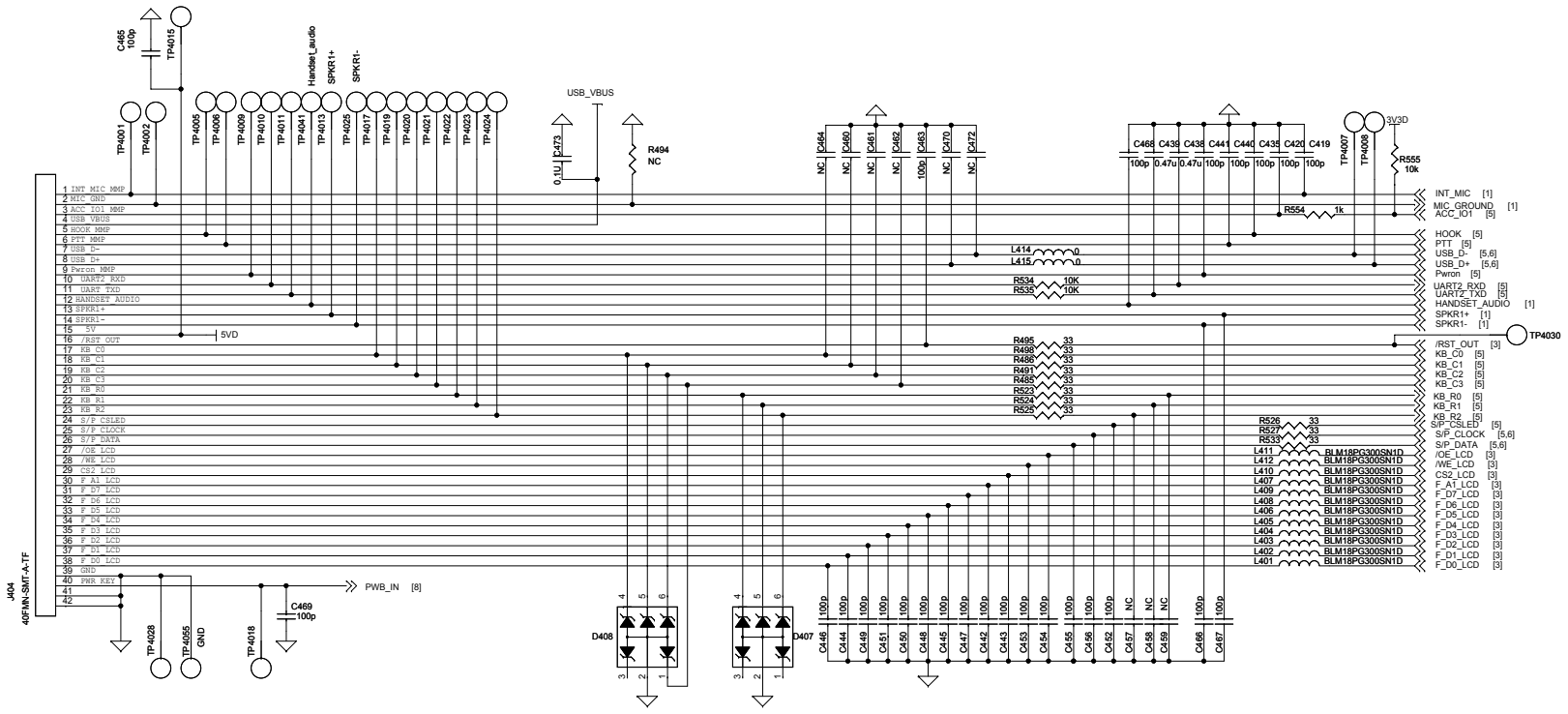
OMAP & GPS Circuit



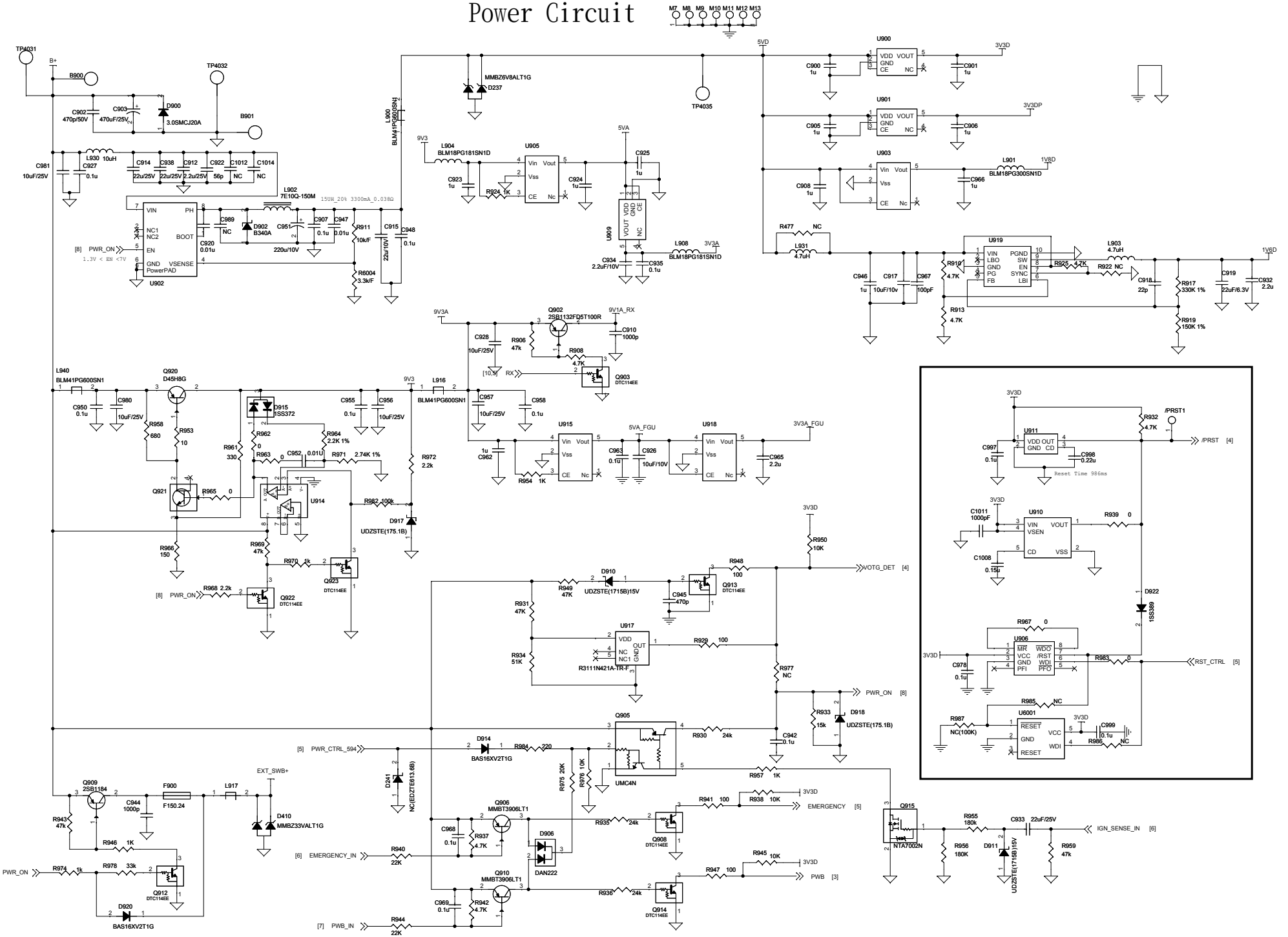
Peripheral Interface Circuit



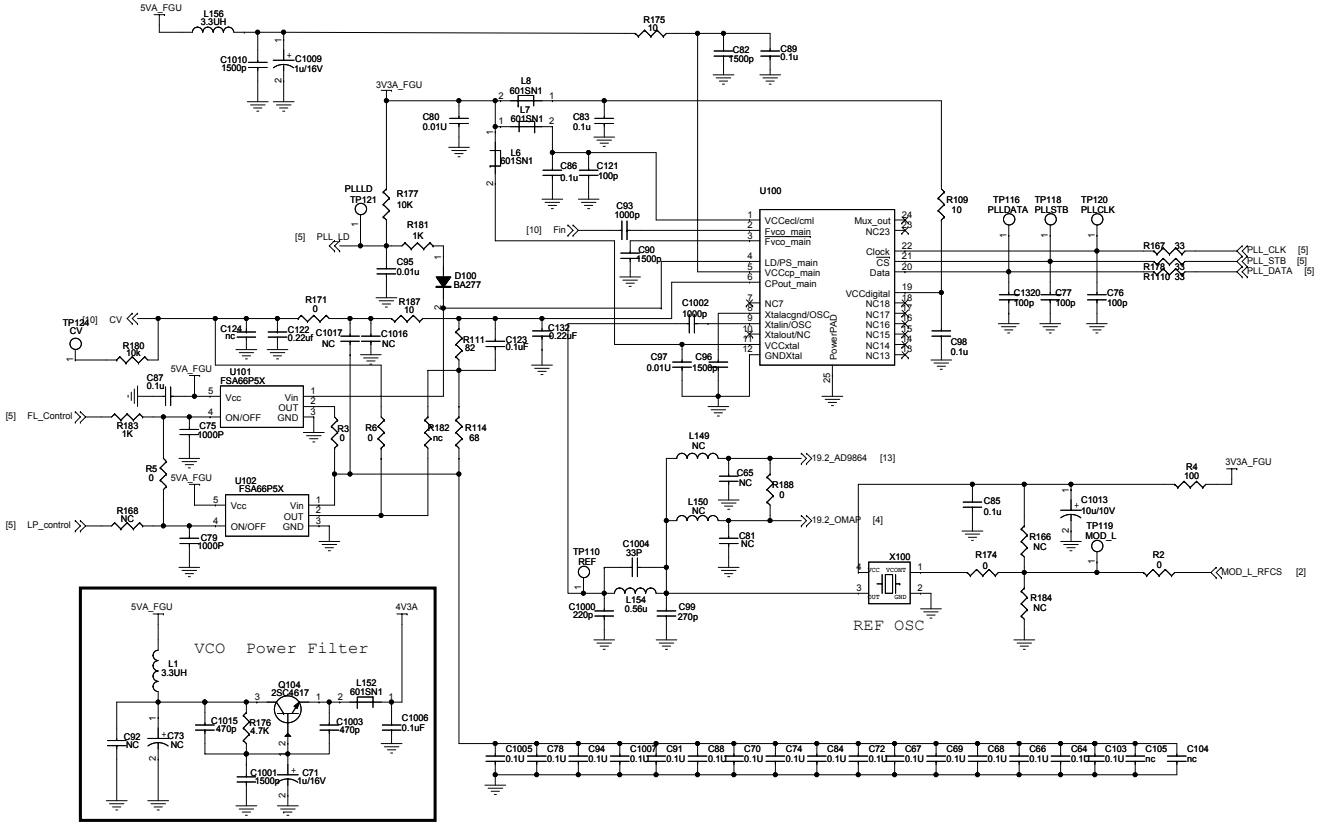
40-Pin Interface Circuit



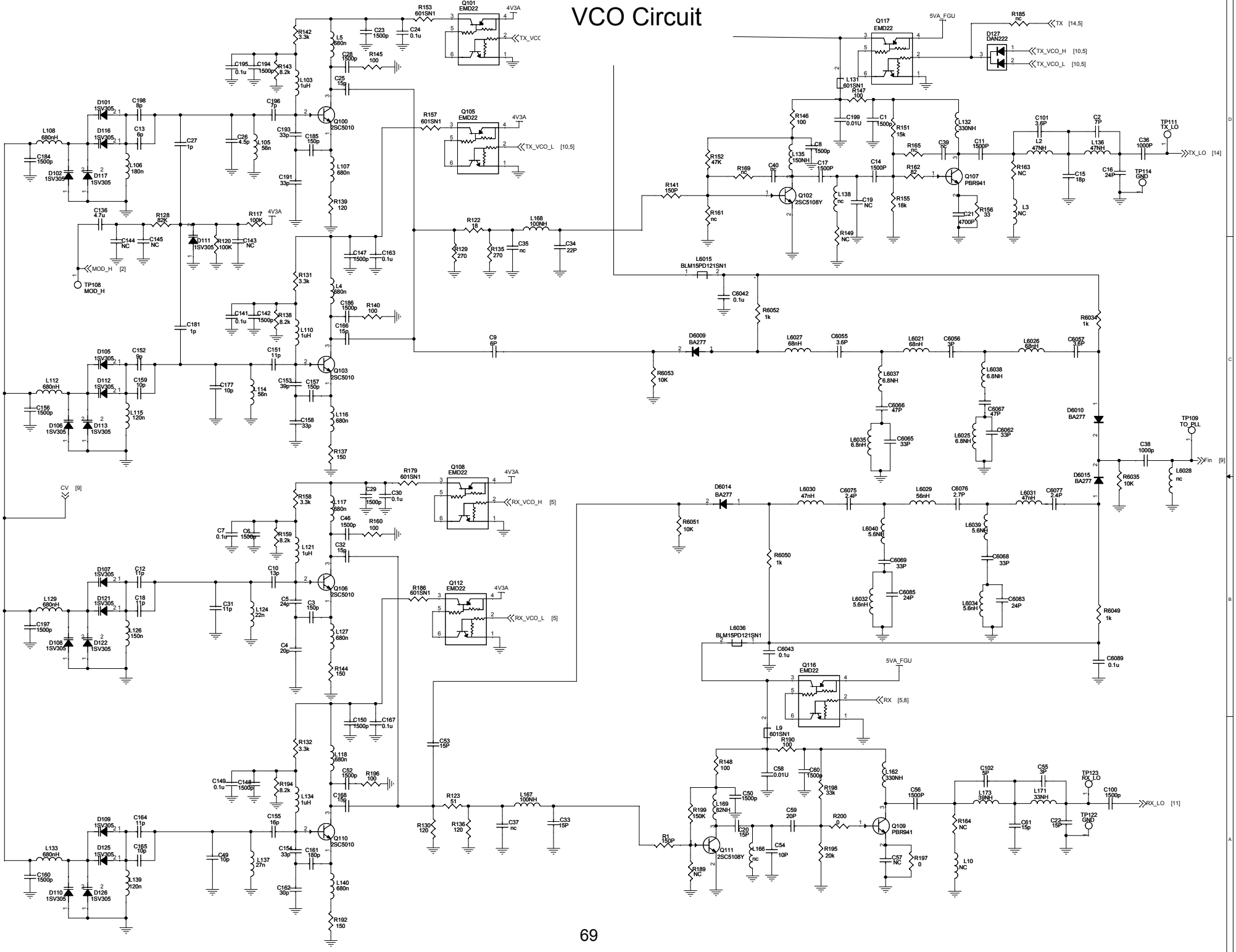
Power Circuit



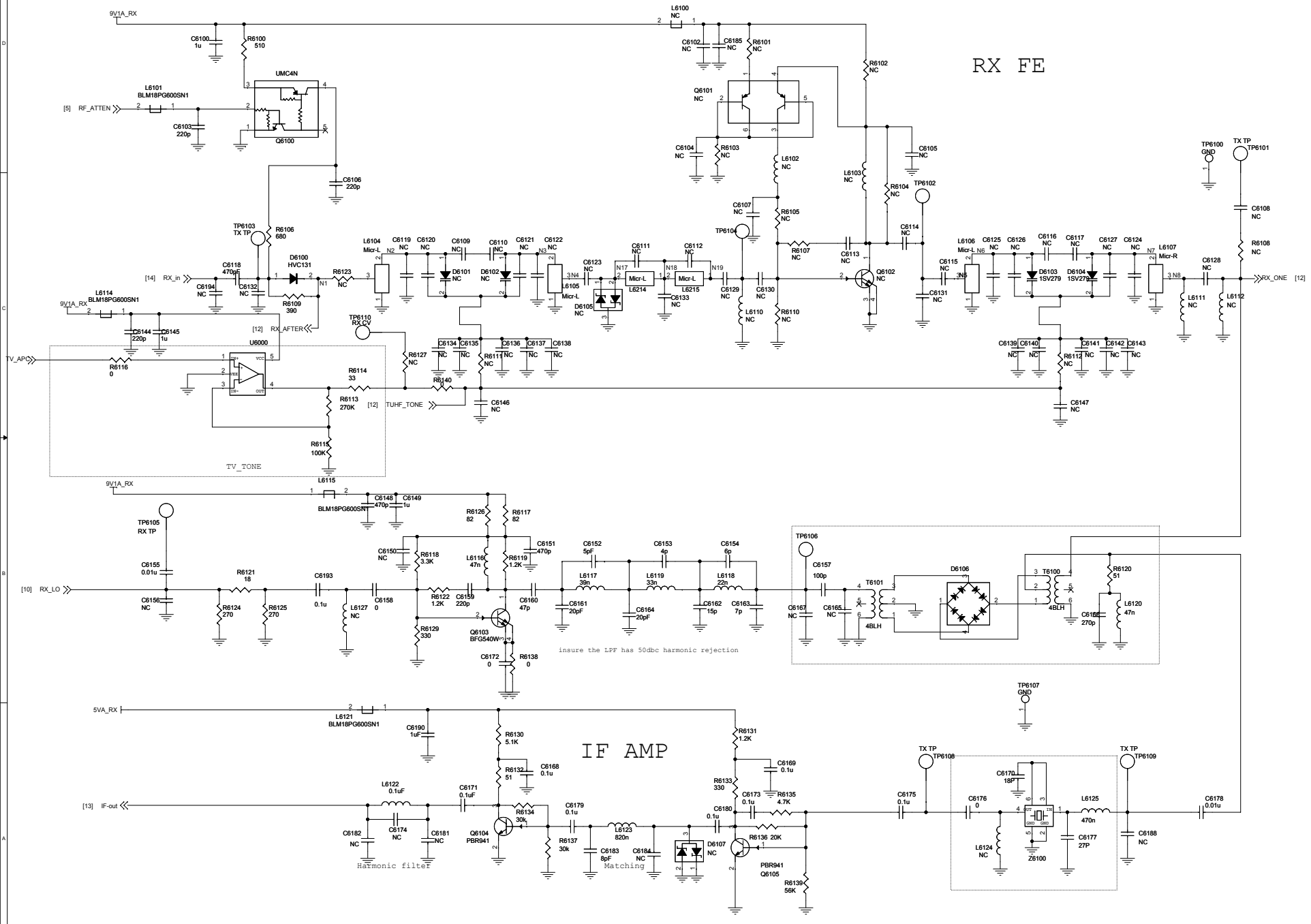
PLL Circuit


5VA_FGU
L156 3.3UH
C1010 1500p
C1009 1u/16V
R175 10
C82 1500p
C89 0.1u
3V3A_FGU
L8 601SN1
L7 601SN1
L6 601SN1
C80 0.01U
C83 0.1u
C86 0.1u
C121 100p
PLLLD
TP121
R177 10K
R181 1K
[5] PLL_LD
C95 0.01u
D100 BA277
U100
C93 1000p
[10] Fin
C90 1500p
R109 10
TP116 PLLDATA
TP118 PLLSTB
TP120 PLLCLK
R167 33
R168 33
R1110 33
PLL_CLK [5]
PLL_STB [5]
PLL_DATA [5]
C1320 100p
C77 100p
C76 100p
C98 0.1u
VCCecl/cml
Fvco_main
Fvco_main
LD/PS_main
VCCcp_main
CPout_main
NC7
Xtalacgnd/OSC
Xtalin/OSC
Xtalout/NC
VCCxtal
GNDXtal
Mux_out
NC23
Clock
CS
Data
VCCdigital
NC18
NC17
NC16
NC15
NC14
NC13
PowerPAD
R171 0
C124 nc
C122 0.22uf
C1017 NC
C1016 NC
R111 82
C123 0.1uF
C132 0.22uF
C1002 1000p
C97 0.01U
C96 1500p
TP124 CV
[10] CV
R180 10K
U101 FSA66P5X
C87 0.1u
[5] FL_Control
R183 1K
C75 1000P
R3 0
R6 0
R182 nc
R114 68
R5 0
U102 FSA66P5X
[5] LP_control
R168 NC
C79 1000P
L149 NC
C65 NC
R188 0
19.2_AD9864 [13]
L150 NC
C81 NC
19.2_OMAP [4]
TP110 REF
C1004 33P
C1000 220p
L154 0.56u
C99 270p
X100
REF OSC
C85 0.1u
C1013 10u/10V
TP119 MOD_L
R166 NC
R174 0
R184 NC
R4 100
3V3A_FGU
R2 0
MOD_L_RFCS [2]
VCO Power Filter
4V3A
L1 3.3UH
Q104 2SC4617
L152 601SN1
C92 NC
C73 NC
C1015 470p
R176 4.7K
C1003 470p
C1006 0.1uF
C1001 1500p
C71 1u/16V
C1005 C78 C94 C1007 C91 C88 C70 C74 C84 C72 C67 C69 C68 C66 C64 C103 C105 C104
0.1U nc

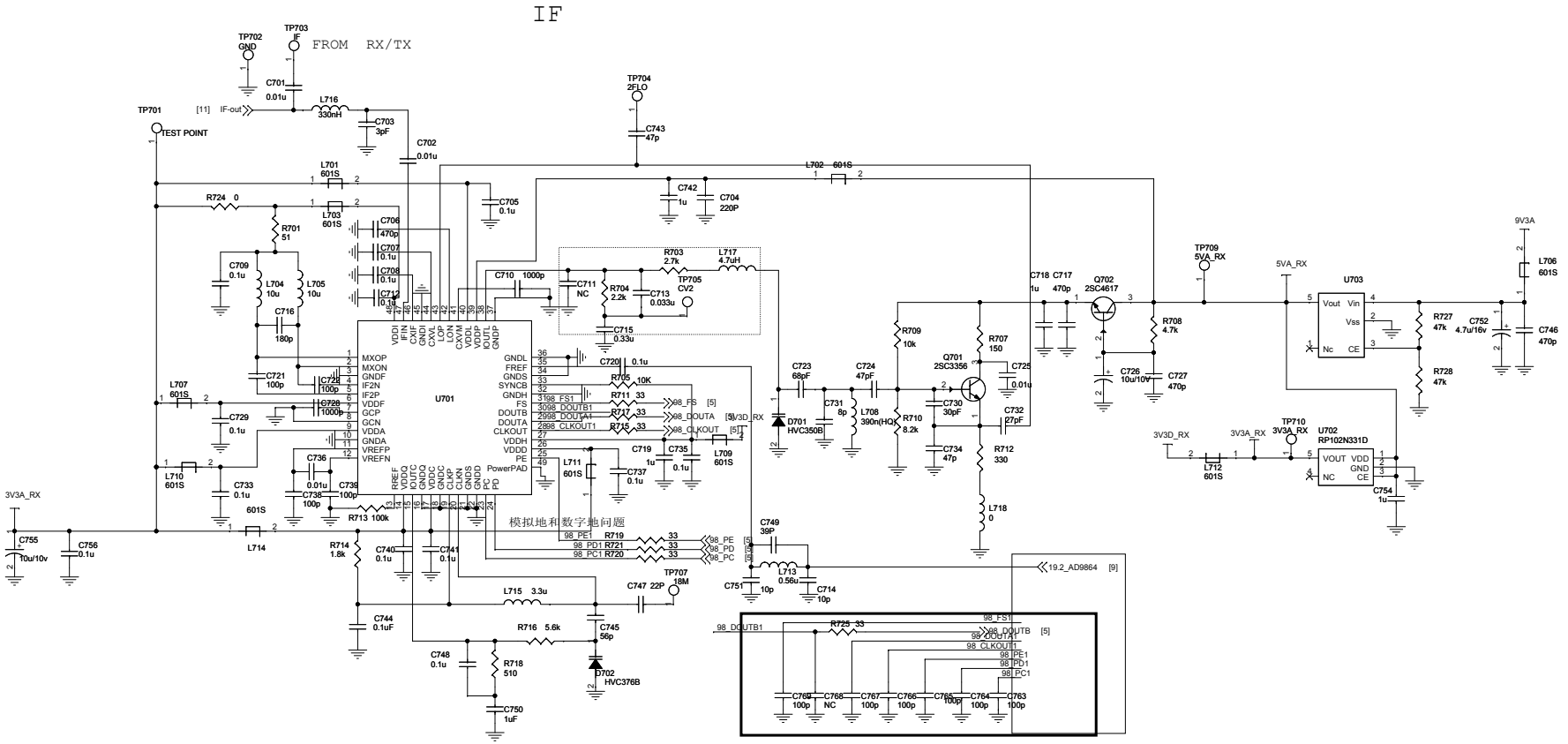
VCO Circuit


Q101 EMD22
Q105 EMD22
Q108 EMD22
Q112 EMD22
Q117 EMD22
Q116 EMD22
Q100 2SC5010
Q103 2SC5010
Q106 2SC5010
Q110 2SC5010
Q102 2SC5108Y
Q111 2SC5108Y
Q107 PBR941
Q109 PBR941
D127 DAN222
D101 1SV305
D102 1SV305
D105 1SV305
D106 1SV305
D107 1SV305
D108 1SV305
D109 1SV305
D110 1SV305
D111 1SV305
D116 1SV305
D117 1SV305
D112 1SV305
D113 1SV305
D121 1SV305
D122 1SV305
D125 1SV305
D126 1SV305
D6009 BA277
D6010 BA277
D6014 BA277
D6015 BA277
L6015 BLM15PD121SN1
L6036 BLM15PD121SN1
TP108 MOD_H
TP109 TO_PLL
TP111 TX_LO
TP114 GND
TP123 RX_LO
TP122 GND
MOD_H [2]
CV [9]
TX_VCO [5]
TX_VCO_L [10,5]
TX_VCO_H [10,5]
TX [14,5]
TX_LO [14]
RX_VCO_H [5]
RX_VCO_L [5]
RX [5,8]
RX_LO [11]
Fin [9]
4V3A
5VA_FGU

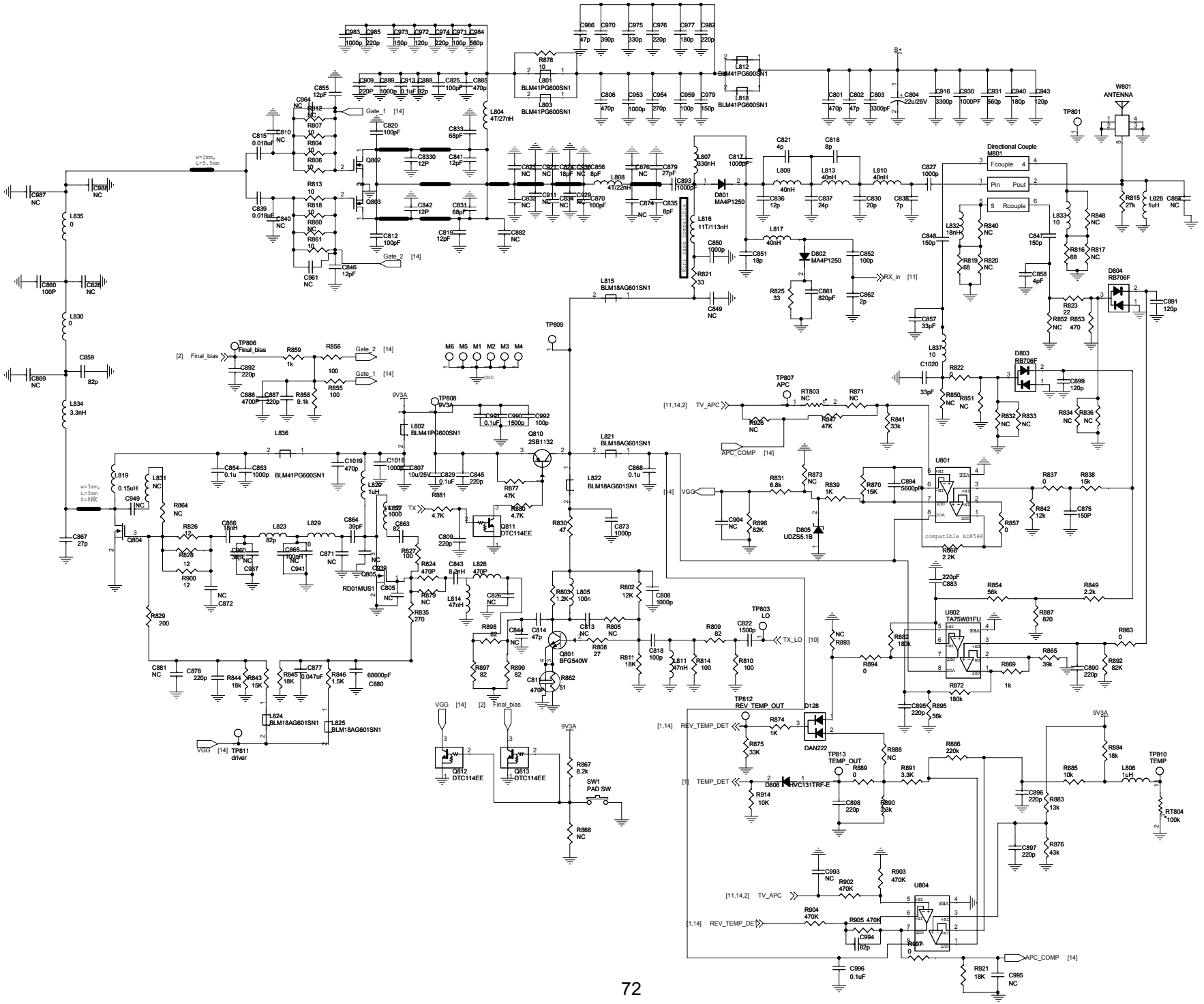
RX Circuit


RX FE
IF AMP
TV_TONE
Harmonic filter
Matching
insure the LPF has 50dbc harmonic rejection
9V1A_RX
5VA_RX
[5] RF_ATTEN
[14] RX_in
[12] RX_AFTER
[12] TUHF_TONE
[10] RX_LO
[13] IF-out
TV_APC
RX_ONE [12]
TX TP
RX TP
RX_CV
UMC4N
Q6100
Q6101
Q6102
Q6103
Q6104
Q6105
Micr-L
Micr-R
BLM18PG600SN1
BLM18PG600SN
HVC131
1SV279
4BLH
BFG540W
PBR941
U6000
Z6100

IF Circuit


IF
FROM RX/TX
TP702 GND
TP703 IF
TP701 TEST POINT
[11] IF-out
TP704 2FLO
TP705 CV2
TP707 18M
TP709 5VA_RX
TP710 3V3A_RX
U701
U702 RP102N331D
U703
Q701 2SC3356
Q702 2SC4617
D701 HVC350B
D702 HVC376B
L701 601S
L702 601S
L703 601S
L706 601S
L707 601S
L709 601S
L710 601S
L711 601S
L712 601S
L714
L715 3.3u
L716 330nH
L717 4.7uH
L718 0
L704 10u
L705 10u
L708 390n(HQ)
L713 0.56u
R724 0
R701 51
R703 2.7k
R704 2.2k
R705 10K
R707 150
R708 4.7k
R709 10k
R710 8.2k
R711 33
R712 330
R713 100k
R714 1.8k
R715 33
R716 5.6k
R717 33
R718 510
R719 33
R720 33
R721 33
R725 33
R727 47k
R728 47k
C701 0.01u
C702 0.01u
C703 3pF
C704 220P
C705 0.1u
C706 470p
C707 0.1u
C708 0.1u
C709 0.1u
C710 1000p
C711 NC
C712 0.1u
C713 0.033u
C715 0.33u
C716 180p
C717 470p
C718 1u
C719 1u
C720 0.1u
C721 100p
C722 100p
C723 68pF
C724 47pF
C725 0.01u
C726 10u/10V
C727 470p
C728 1000p
C729 0.1u
C730 30pF
C731 8p
C732 27pF
C733 0.1u
C734 47p
C735 0.1u
C736 0.01u
C737 0.1u
C738 100p
C739 100p
C740 0.1u
C741 0.1u
C742 1u
C743 47p
C744 0.1uF
C745 56p
C746 470p
C747 22P
C748 0.1u
C749 39P
C750 1uF
C751 10p
C752 4.7u/16v
C754 1u
C755 10u/10v
C756 0.1u
C763 100p
C764 100p
C765 100p
C766 100p
C767 100p
C768 NC
C769 100p
3V3A_RX
3V3D_RX
5VA_RX
9V3A
98_PE1
98_PD1
98_PC1
98_FS1
98_DOUTB1
98_DOUTA1
98_CLKOUT1
98_FS [5]
98_DOUTA [5]
98_CLKOUT [5]
98_DOUTB [5]
98_PE [5]
98_PD [5]
98_PC [5]
19.2_AD9864 [9]
模拟地和数字地问题

TX Circuit



12. Parts List

12.1 Front Panel

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	C1	B3H	3101051010030	100pF	72	D21	B4C	3310240000000	ESD protection diode
2	C10	B3G	3101051010030	100pF	73	D22	B4C	3310240000000	ESD protection diode
3	C11	B3G	3101051010030	100pF	74	D23	B4B	3310990000090	ESD protection diode
4	C12	B3G	3101051010030	100pF	75	D3	B4C	3310990000090	ESD protection diode
5	C13	B4H	3101051040010	0.1uF	76	D4	T5J	3307110100080	LED
6	C14	B3H	3101051040010	0.1uF	77	D5	T5H	3307110100080	LED
7	C15	B2K	3101052710000	270pF	78	D6	T3J	3307110100080	LED
8	C16	B2K	3101052710000	270pF	79	D7	T2J	3307110100080	LED
9	C19	B1L	3101054710010	470pF	80	D8	T2B	3307110300000	LED
10	C2	B4D	3101051040010	0.1uF	81	D9	T2A	3307110300000	LED
11	C20	B4D	3101054710010	470pF	82	J1	B4D	5206040200010	FFC connector
12	C21	B4D	3101054710010	470pF	83	J2	T2G	5206034200010	FPC connector
13	C22	B4D	3101054710010	470pF	84	L1	B4H	3221506300000	Ferrite bead
14	C23	B1E	3101051040010	0.1uF	85	L2	B4D	3221506300000	Ferrite bead
15	C24	B1E	3101051040010	0.1uF	86	PCB	/	41078001000J0	PCB control panel
16	C27	B4D	3101054710010	470pF	87	Q1	B2J	3414001000040	NPN transistor
17	C28	B4D	3101054710010	470pF	88	Q2	B2H	3403008000010	Transistor
18	C29	B4D	3101054710010	470pF	89	Q3	B2H	3403008000010	Transistor
19	C3	B3H	3101061040010	0.1uF	90	Q4	B2G	3599990000610	N-MOSFET
20	C30	B4D	3101054710010	470pF	91	R1	B5H	3001062710000	270Ω
21	C31	B4B	3101054710010	470pF	92	R10	B2G	3001063300000	33Ω
22	C32	B4B	3101054710010	470pF	93	R11	B3F	3001063300000	33Ω
23	C33	B4B	3101054710010	470pF	94	R12	B2H	3001063300000	33Ω
24	C34	B5B	3101054710010	470pF	95	R15	B3G	3001060000000	0Ω
25	C35	B5C	3101054710010	470pF	96	R17	B2H	3001063300000	33Ω
26	C36	B5B	3101054710010	470pF	97	R18	B2G	3001060000000	0Ω
27	C37	B5D	3101054710010	470pF	98	R19	B3G	3001070000000	0Ω
28	C39	T3H	3101055620010	5600pF	99	R2	B2B	3001062710000	270Ω
29	C4	B3I	3101054740020	0.47uF	100	R20	B2G	3001061000000	10Ω
30	C46	B2H	3101054730000	0.047uF	101	R21	B2G	3001061000000	10Ω
31	C47	B5F	3101054710010	470pF	102	R22	B2G	3001061000000	10Ω
32	C48	B5J	3101054710010	470pF	103	R23	B3H	3001060000000	0Ω
33	C49	B2J	3101054710010	470pF	104	R25	B1D	3001051030000	10kΩ
34	C5	B3G	3101051010030	100pF	105	R26	B1D	3001051030000	10kΩ
35	C50	B5H	3101054710010	470pF	106	R27	B1E	3001060000000	0Ω
36	C51	B4J	3101054710010	470pF	107	R28	B3A	3001050000000	0Ω
37	C52	B2J	3101054710010	470pF	108	R29	B1E	3001060000000	0Ω
38	C53	B2B	3101054710010	470pF	109	R3	B2B	3001062710000	270Ω
39	C54	B2B	3101054710010	470pF	110	R30	B3A	3001050000000	0Ω
40	C55	B1C	3101054710010	470pF	111	R31	B5F	3001062710000	270Ω
41	C56	B1B	3101054710010	470pF	112	R32	B1L	3001062710000	270Ω
42	C57	B2A	3101054710010	470pF	113	R33	B2C	3001051030000	10kΩ
43	C58	B2A	3101054710010	470pF	114	R34	B2C	3001051030000	10kΩ
44	C59	B1A	3101054710010	470pF	115	R35	B2C	3001051030000	10kΩ
45	C6	T2G	3101051010030	100pF	116	R36	B2C	3001051030000	10kΩ
46	C60	B1A	3101054710010	470pF	117	R37	B5J	3001062710000	270Ω
47	C61	B4C	3101051040010	0.1uF	118	R38	B2J	3001062710000	270Ω
48	C62	B1M	3101054710010	470pF	119	R39	B1C	3001062710000	270Ω
49	C63	B2K	3101052710000	270pF	120	R4	B2B	3001062710000	270Ω
50	C64	B2K	3101053920000	3900pF	121	R40	B1B	3001062710000	270Ω
51	C65	B4H	3101074750000	4.7uF	122	R41	B1A	3001062710000	270Ω
52	C66	B3H	3101074750000	4.7uF	123	R42	B1A	3001062710000	270Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
53	C67	B1M	3101054710010	470pF	124	R43	B4B	3001061020010	1kΩ
54	C68	B1L	3101054710010	470pF	125	R44	B5A	3001061020010	1kΩ
55	C69	B1C	3101054710010	470pF	126	R45	B5D	3001061020010	1kΩ
56	C7	T2G	3101061040010	0.1uF	127	R46	B1L	3001062710000	270Ω
57	C70	B1A	3101054710010	470pF	128	R47	B2I	3001061020010	1kΩ
58	C71	B5F	3101054710010	470pF	129	R5	B2B	3001062710000	270Ω
59	C8	B3G	3101051010030	100pF	130	R6	B3H	3001061030010	10kΩ
60	C9	B3G	3101061040010	0.1uF	131	R7	B3J	3001062710000	270Ω
61	D1	T5F	3307110100080	LED	132	R8	B3J	3001062710000	270Ω
62	D10	B3I	3310990000090	ESD protection diode	133	R9	B2G	3001063300000	33Ω
63	D11	T1B	3307110300000	LED	134	S1	T1M	4301080000090	Momentary contact switch
64	D12	T1A	3307110300000	LED	135	S7	T3A	4301080000090	Momentary contact switch
65	D13	B2K	3310240000000	ESD protection diode	136	U1	B2H	3607010000400	Logic IC
66	D14	B4B	3310990000090	ESD protection diode	137	U2	B3H	3805010860000	EMI filter
67	D17	B5A	3310990000090	ESD protection diode	138	U3	B3F	3805010860000	EMI filter
68	D18	B5C	3310990000090	ESD protection diode	139	U4	B3F	3805010860000	EMI filter
69	D19	B4B	3310240000000	ESD protection diode	140	U5	B4H	3608015000210	Power management IC
70	D2	T1J	3307110100080	LED	141	U8	B4C	3699037000010	USB protection IC
71	D20	B5C	3310990000090	ESD protection diode	/	/	/	/	/

12.2 GPS Circuit

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	C330	T3A	3101051040010	0.1uF	13	R365	T3C	3001051030000	10kΩ
2	C331	T3A	3101071060010	10uF	14	R366	T3C	3001051030000	10kΩ
3	C332	T3A	3101051040010	0.1uF	15	R368	T3C	3001051010040	100Ω
4	C333	T3A	3101071060010	10uF	16	R370	T3C	3001051010040	100Ω
5	C340	T4C	3101054710010	470pF	17	R373	T3C	3001053300010	33Ω
6	D916	T3A	3303010500090	Switching diode	18	R389	T3C	3001053300010	33Ω
7	D919	T3A	3303010500090	Switching diode	19	R398	T3A	3001054720000	4.7kΩ
8	D921	T3A	3302030500030	Zener diode	20	R416	T3A	3001052030000	20kΩ
9	L321	T3A	3212106390000	39nH	21	R418	T3A	3001051030000	10kΩ
10	L322	T3A	3221506300000	Ferrite bead	22	U326	T3B	3625999000060	GPS module
11	R363	T3A	3001050000000	0Ω	23	W321	T3A	4411100002000	IPX RF connector
12	R364	T3A	3001050000000	0Ω	/	/	/	/	/

12.3 Main Board (25W)

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	C1	T7E	3101051520000	1500pF	800	L4	B8F	3217607681000	680nH
2	C10	B8G	3101061300000	13pF	801	L401	B8A	3221506300000	Ferrite bead
3	C100	T7H	3101051520000	1500pF	802	L402	B8A	3221506300000	Ferrite bead
4	C1000	T8F	3101052210010	220pF	803	L403	B8A	3221506300000	Ferrite bead
5	C1001	B7F	3101051520000	1500pF	804	L404	B8A	3221506300000	Ferrite bead
6	C1002	T8F	3101051020010	1000pF	805	L405	B8A	3221506300000	Ferrite bead
7	C1003	B7F	3101054710010	470pF	806	L406	B8A	3221506300000	Ferrite bead
8	C1004	T8F	3101063300000	33pF	807	L407	B8B	3221506300000	Ferrite bead
9	C1005	T7F	3110071040000	0.1uF	808	L408	B8B	3221506300000	Ferrite bead
10	C1006	B8F	3101051040010	0.1uF	809	L409	B8B	3221506300000	Ferrite bead
11	C1007	T7F	3110071040000	0.1uF	810	L410	B8B	3221506300000	Ferrite bead
12	C1008	T7D	3101051050000	1uF	811	L411	B8B	3221506300000	Ferrite bead
13	C1009	T7G	3101071050240	1uF	812	L412	B8B	3221506300000	Ferrite bead

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
14	C101	T7E	3101053690010	3.6pF	813	L414	B8D	3001050000000	0Ω
15	C1010	T7G	3101051520000	1500pF	814	L415	B8C	3001050000000	0Ω
16	C1011	T7C	3101051020010	1000pF	815	L417	T2C	3221505121000	Ferrite bead
17	C1013	T8E	3104991060060	10uF	816	L418	T2C	3221505121000	Ferrite bead
18	C1015	B7F	3101054710010	470pF	817	L5	B8E	3217607681000	680nH
19	C1018	T5E	3101061020040	1000pF	818	L6	T8F	3221506601000	Ferrite bead
20	C1019	T5E	3101064710000	470pF	819	L6015	B8E	3221505121010	Ferrite bead
21	C102	T7G	3101060500010	5pF	820	L6021	B8F	3217106820010	82nH
22	C1020	B3J	3101061500010	15pF	821	L6025	B8F	3217106689010	6.8nH
23	C103	T7G	3110071040000	0.1uF	822	L6026	B8F	3210106680000	68nH
24	C11	T7E	3101051520000	1500pF	823	L6027	B8E	3210106680000	68nH
25	C12	B7G	3101051100010	11pF	824	L6029	B8G	3217106560000	56nH
26	C121	T8G	3101051010030	100pF	825	L6030	B8G	3217106470000	47nH
27	C122	T7F	3101062240000	0.22uF	826	L6031	B8G	3217106470000	47nH
28	C123	T8F	3101061040010	0.1uF	827	L6032	B8G	3217106569000	5.6nH
29	C13	B7E	3101050600010	6pF	828	L6034	B8G	3217106569000	5.6nH
30	C132	T8F	3101062240000	0.22uF	829	L6035	B8F	3217106689010	6.8nH
31	C1320	T8F	3101051010030	100pF	830	L6036	B8G	3221505121010	Ferrite bead
32	C136	B7E	3101074750000	4.7uF	831	L6037	B8E	3217106689010	6.8nH
33	C14	T7E	3101051520000	1500pF	832	L6038	B8F	3217106689010	6.8nH
34	C141	B8F	3101051040010	0.1uF	833	L6039	B8G	3217106569000	5.6nH
35	C142	B8F	3101051520000	1500pF	834	L6040	B8G	3217106569000	5.6nH
36	C147	B8F	3101051520000	1500pF	835	L6101	T4I	3211506101000	Ferrite bead
37	C148	B8H	3101051520000	1500pF	836	L6114	B5I	3211506101000	Ferrite bead
38	C149	B8H	3101051040010	0.1uF	837	L6115	B7H	3211506101000	Ferrite bead
39	C15	T7E	3101051800070	18pF	838	L6116	B8H	3210306470000	47nH
40	C150	B8G	3101051520000	1500pF	839	L6117	B8I	3210306390000	39nH
41	C151	B8F	3101061100010	11pF	840	L6118	B8I	3210306220000	22nH
42	C152	B7E	3101050900000	9pF	841	L6119	B8I	3210306330000	33nH
43	C153	B8F	3101053900000	39pF	842	L6120	T7I	3210306470000	47nH
44	C154	B8G	3101053300000	33pF	843	L6121	T7I	3211506101000	Ferrite bead
45	C155	B8G	3101061600000	16pF	844	L6122	T7I	3101061040010	0.1uF
46	C156	B7E	3101051520000	1500pF	845	L6123	T7H	3213306821000	0.82uH
47	C157	B8F	3101051510000	150pF	846	L6125	T8I	3210406471000	470nH
48	C158	B7F	3101053300000	33pF	847	L6200	B5J	3211506101000	Ferrite bead
49	C159	B7F	3101051000020	10pF	848	L6202	B6J	3210306561010	560nH
50	C16	T7E	3101052400010	24pF	849	L6203	B6J	3210106560000	56nH
51	C160	B7G	3101051520000	1500pF	850	L6210	B6I	3210306330000	33nH
52	C161	B8G	3101051810010	180pF	851	L6213	B7J	3210305560000	56nH
53	C162	B8G	3101053000010	30pF	852	L6216	B7J	3210305560000	56nH
54	C163	B8F	3101051040010	0.1uF	853	L7	T8G	3221506601000	Ferrite bead
55	C164	B7G	3101051100010	11pF	854	L701	T6H	3221506601000	Ferrite bead
56	C165	B7G	3101051000030	10pF	855	L702	T6H	3221506601000	Ferrite bead
57	C166	B8F	3101051500080	15pF	856	L703	T6H	3221506601000	Ferrite bead
58	C167	B8G	3101051040010	0.1uF	857	L704	T6I	3213212103000	10uH
59	C168	B8G	3101051500080	15pF	858	L705	T6I	3213212103000	10uH
60	C17	T8E	3101061520010	1500pF	859	L706	T5H	3221506601000	Ferrite bead
61	C177	B7F	3101061000000	10pF	860	L707	T5I	3221506601000	Ferrite bead
62	C18	B7G	3101051100010	11pF	861	L708	B6H	3297107391000	390nH
63	C181	B7E	3101050100030	1pF	862	L709	T5H	3221506601000	Ferrite bead
64	C184	B7E	3101051520000	1500pF	863	L710	T6H	3221506601000	Ferrite bead
65	C185	B8E	3101051510000	150pF	864	L711	T5H	3221506601000	Ferrite bead
66	C186	B8F	3101051520000	1500pF	865	L712	T6I	3221506601000	Ferrite bead
67	C191	B7E	3101053300000	33pF	866	L713	T6G	3213306561000	0.56uH
68	C193	B8E	3101053900000	39pF	867	L714	T5H	3221506601000	Ferrite bead
69	C194	B8E	3101051520000	1500pF	868	L715	B5H	3213212332000	3.3uH
70	C195	B8E	3101051040010	0.1uF	869	L716	T6H	3210406331000	330nH
71	C196	B8E	3101060700020	7pF	870	L717	T6G	3213306472000	4.7uH
72	C197	B7G	3101051520000	1500pF	871	L718	B6H	3001060000000	0Ω
73	C198	B7E	3101050800000	8pF	872	L8	T8F	3221506601000	Ferrite bead
74	C199	T7E	3101051030020	0.01uF	873	L801	B2G	3221513600000	Ferrite bead
75	C2	T7E	3101060700020	7pF	874	L802	T5E	3221513600000	Ferrite bead
76	C20	T8G	3101061500010	15pF	875	L803	B2G	3221513600000	Ferrite bead

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
77	C200	B6D	3101061050020	1uF	876	L804	T3F	3233099270000	Air-core coil 27nH
78	C21	T7E	3101054720000	4700pF	877	L806	B3G	3213306102000	1uH
79	C22	T7H	3101051500080	15pF	878	L807	T2H	3210406331000	330nH
80	C23	B8E	3101051520000	1500pF	879	L808	T2G	3233099220000	Air-core coil 22nH
81	C232	B4C	3101051040010	0.1uF	880	L809	T3H	3233099400010	Air-core coil 40nH
82	C233	B4C	3101051040010	0.1uF	881	L810	T4H	3233099400010	Air-core coil 40nH
83	C234	B4C	3101081060010	10uF	882	L812	B2F	3221513600000	Ferrite bead
84	C235	B4C	3101051030020	0.01uF	883	L813	T3H	3233099400010	Air-core coil 40nH
85	C236	B6C	3101051040010	0.1uF	884	L814	T5E	3212106470000	47nH
86	C237	B6B	3101054740020	0.47uF	885	L815	B3I	3221506601000	Ferrite bead
87	C238	B6D	3101061050020	1uF	886	L816	B2H	3233099111000	Air-core coil 111nH
88	C239	B6C	3101051040010	0.1uF	887	L817	T2I	3233099400010	Air-core coil 40nH
89	C24	B8E	3101051040010	0.1uF	888	L818	B2F	3221513600000	Ferrite bead
90	C240	B6D	3101051040010	0.1uF	889	L819	T6F	3290209151000	0.15uH
91	C241	B6B	3001060000000	0Ω	890	L820	T6E	3210209102010	1uH
92	C242	B6B	3101062210000	220pF	891	L821	B4H	3221506601000	Ferrite bead
93	C243	B6B	3101051040010	0.1uF	892	L823	T6E	3101062200010	22pF
94	C245	B6A	3101062210000	220pF	893	L824	T6G	3221506601000	Ferrite bead
95	C246	B6B	3101052230000	0.022uF	894	L825	T6E	3221506601000	Ferrite bead
96	C247	B5C	3101052210010	220pF	895	L826	B5E	3101064710000	470pF
97	C248	B6C	3101051040010	0.1uF	896	L827	T6E	3101061020000	1000pF
98	C249	B5C	3101061050020	1uF	897	L828	T2J	3217112102020	1uH
99	C25	B8E	3101051500080	15pF	898	L829	T6E	3001060000000	0Ω
100	C250	B5B	3101052210010	220pF	899	L830	T5F	3210306569000	5.6nH
101	C251	B6D	3101061050020	1uF	900	L832	T3J	3212106180000	18nH
102	C252	B5B	3101061050020	1uF	901	L833	T2J	3001061000070	10Ω
103	C253	B5B	3101061050020	1uF	902	L834	T6G	3001060000000	0Ω
104	C254	B5C	3101052210010	220pF	903	L835	T5F	3001060000000	0Ω
105	C255	B6C	3101051050000	1uF	904	L836	T5E	3221513600000	Ferrite bead
106	C256	B6D	3101051010030	100pF	905	L837	B3J	3210306101000	100nH
107	C257	B5C	3101061050020	1uF	906	L9	T7G	3221506601000	Ferrite bead
108	C258	B6C	3101051040010	0.1uF	907	L900	T4B	3221513600000	Ferrite bead
109	C259	B6D	3101061050020	1uF	908	L901	T5B	3221506300000	Ferrite bead
110	C26	B7E	3101064590010	4.5pF	909	L902	T4C	3217699153000	15uH
111	C260	B5D	3101051030020	0.01uF	910	L903	T6C	3213099472000	4.7uH
112	C261	B5D	3101051030020	0.01uF	911	L904	B4D	3221506181000	Ferrite bead
113	C262	B6D	3101061050020	1uF	912	L908	B5D	3221506181000	Ferrite bead
114	C263	B5C	3101061050020	1uF	913	L909	T8A	3221506181000	Ferrite bead
115	C264	B5B	3101061050020	1uF	914	L912	T6C	3221506300000	Ferrite bead
116	C265	B5B	3101052210010	220pF	915	L913	T6C	3221506300000	Ferrite bead
117	C266	B5C	3101061050020	1uF	916	L916	T3D	3221513600000	Ferrite bead
118	C267	B5D	3101051040010	0.1uF	917	L917	B2B	3221513600000	Ferrite bead
119	C268	B6A	3101064740010	0.47uF	918	L930	T4D	3241799103000	10uH
120	C269	B5C	3101052210010	220pF	919	L931	T6D	3213099472000	4.7uH
121	C27	B7E	3101050100030	1pF	920	L940	T2D	3221513600000	Ferrite bead
122	C270	B5D	3101052210010	220pF	921	P1	/	6202010000010	APC shielding mask
123	C271	B5D	3101052210010	220pF	922	P2	/	6203077000000	VCO shielding mask
124	C272	B5D	3101052210010	220pF	923	Q100	B8E	3408002000080	NPN transistor
125	C273	B6D	3101052210010	220pF	924	Q101	B8E	3403999000000	Compound transistor
126	C274	B5D	3101051040010	0.1uF	925	Q102	T8E	3401002000990	NPN transistor
127	C275	B5B	3101071060010	10uF	926	Q103	B8F	3408002000080	NPN transistor
128	C276	B5B	3101051050000	1uF	927	Q104	B7F	3403003000060	NPN transistor
129	C277	B4B	3101061050020	1uF	928	Q105	B8F	3403999000000	Compound transistor
130	C278	B5C	3101061050020	1uF	929	Q106	B8G	3408002000080	NPN transistor
131	C279	B5C	3101061050020	1uF	930	Q107	T7E	3404006000000	NPN transistor
132	C28	B8E	3101051520000	1500pF	931	Q108	B8F	3403999000000	Compound transistor
133	C280	B5C	3101052210010	220pF	932	Q109	T8H	3404006000000	NPN transistor
134	C281	B5C	3101061050020	1uF	933	Q110	B8G	3408002000080	NPN transistor

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
135	C282	B4C	3101061050020	1uF	934	Q111	T8G	3401002000990	NPN transistor
136	C283	B6A	3101061040010	0.1uF	935	Q112	B8H	3403999000000	Compound transistor
137	C284	B6B	3101092260010	22uF	936	Q116	T7G	3403999000000	Compound transistor
138	C285	B6B	3101051040010	0.1uF	937	Q117	T7E	3403999000000	Compound transistor
139	C286	B5D	3101081060010	10uF	938	Q230	B6A	3499000000150	Compound transistor
140	C287	B6A	3101064740000	25V	939	Q231	B5C	3499000000150	Compound transistor
141	C288	B6B	3101051010030	100pF	940	Q232	B5D	3499000000150	Compound transistor
142	C289	B6A	3101061040010	0.1uF	941	Q233	B5B	3499000000150	Compound transistor
143	C29	B8F	3101051520000	1500pF	942	Q234	B5C	3499000000150	Compound transistor
144	C290	B6B	3101061050020	1uF	943	Q235	B5C	3499000000150	Compound transistor
145	C291	B6B	3101061050020	1uF	944	Q323	T8C	3403008000010	BRT
146	C293	B6B	3101071060010	10uF	945	Q400	B2A	3403002000000	PNP transistor
147	C294	B6A	3101063340010	0.33uF	946	Q401	T3A	3403008000010	BRT
148	C295	B6C	3101051010030	100pF	947	Q402	T2B	3403008000010	BRT
149	C296	B6A	3101051010030	100pF	948	Q403	B2A	3403008000010	BRT
150	C297	B6A	3101092260010	22uF	949	Q404	B2B	3403008000010	BRT
151	C298	B5D	3101061050020	1uF	950	Q405	T2A	3403008000010	BRT
152	C299	B6D	3101061050020	1uF	951	Q406	B3C	3414999000000	BRT
153	C3	B8G	3101051510000	150pF	952	Q407	B2B	3414999000000	BRT
154	C30	B8F	3101051040010	0.1uF	953	Q408	B2B	3414999000000	BRT
155	C300	B4C	3101061040010	0.1uF	954	Q409	B3C	3414999000000	BRT
156	C301	B4C	3101063920000	3900pF	955	Q410	B3C	3414999000000	BRT
157	C302	B5D	3101063920000	3900pF	956	Q411	T2B	3414999000000	BRT
158	C305	B6B	3101051050000	1uF	957	Q412	T2C	3414999000000	BRT
159	C306	B6B	3101051030020	0.01uF	958	Q413	T6C	3403008000010	BRT
160	C307	B6B	3101051010030	100pF	959	Q414	T3C	3414999000000	BRT
161	C308	B7A	3101051040010	0.1uF	960	Q415	T2C	3599990000710	P-MOSFET
162	C309	B7A	3101051010030	100pF	961	Q416	T2C	3414001000020	PNP transistor
163	C31	B8G	3101061100010	11pF	962	Q6100	T4J	3499000000150	Compound transistor
164	C310	T7A	3101051050000	1uF	963	Q6103	B8I	3404999000000	NPN transistor
165	C311	B6B	3101051040010	0.1uF	964	Q6104	T7I	3404006000000	NPN transistor
166	C32	B8G	3101051500080	15pF	965	Q6105	T8H	3404006000000	NPN transistor
167	C325	T8B	3101051040010	0.1uF	966	Q6201	B6J	3403014000020	Compound transistor
168	C326	T7C	3101051010030	100pF	967	Q6202	B6J	3404999000000	NPN transistor
169	C329	T7D	3101051040010	0.1uF	968	Q701	B6H	3408002000000	NPN transistor
170	C33	B8G	3101051500080	15pF	969	Q702	B6H	3403003000060	NPN transistor
171	C330	T3A	3101051040010	0.1uF	970	Q803	T4F	3601017000000	RF PA module
172	C331	T2A	3101071060010	10uF	971	Q804	T6F	3504990000070	N-MOSFET
173	C332	T2A	3101051040010	0.1uF	972	Q805	T6E	3504990000010	PA MOSFET
174	C333	T3A	3101071060010	10uF	973	Q810	B5E	3403002000000	PNP transistor
175	C334	T8D	3101051040010	0.1uF	974	Q811	B5E	3403008000010	BRT
176	C335	B6B	3101051010030	100pF	975	Q812	B5G	3403008000010	BRT
177	C336	T8A	3101051040010	0.1uF	976	Q813	B5G	3403008000010	BRT
178	C337	T8B	3101051020010	1000pF	977	Q902	T5H	3403002000000	PNP transistor
179	C338	T8B	3101051020010	1000pF	978	Q903	T5H	3403008000010	BRT
180	C339	B7B	3101051010030	100pF	979	Q905	B3A	3499000000150	Compound transistor
181	C34	B8E	3101062200010	22pF	980	Q906	B3B	3414001000020	PNP transistor
182	C340	T7A	3101054710010	470pF	981	Q908	B3B	3403008000010	BRT
183	C341	B7B	3101051010030	100pF	982	Q909	B3B	3403002000010	PNP transistor
184	C342	B7C	3101051010030	100pF	983	Q910	B4B	3414001000020	PNP transistor
185	C343	T7C	3101051010030	100pF	984	Q912	B3A	3403008000010	BRT
186	C344	T8D	3101051010030	100pF	985	Q913	B3A	3403008000010	BRT

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
187	C345	T8C	3101051010030	100pF	986	Q914	B3B	3403008000010	BRT
188	C346	T8C	3101051010030	100pF	987	Q915	B3A	3599990000610	N-MOSFET
189	C347	T6D	3101051010030	100pF	988	Q921	B3E	3404999000020	NPN transistor
190	C348	T6C	3101051010030	100pF	989	Q922	T3C	3403008000010	BRT
191	C349	T6C	3101051010030	100pF	990	Q923	T3C	3403008000010	BRT
192	C350	T6C	3101051010030	100pF	991	R1	T8G	3101051510000	150pF
193	C351	T6C	3101051010030	100pF	992	R109	T8F	3001051000000	10Ω
194	C352	T6C	3101051010030	100pF	993	R111	T8F	3001068200000	82Ω
195	C353	T7C	3101051010030	100pF	994	R1110	T8G	3001053300010	33Ω
196	C354	T6C	3101051010030	100pF	995	R114	T8F	3001066800000	68Ω
197	C355	B7C	3101051010030	100pF	996	R117	B7E	3001051040000	100kΩ
198	C356	T7C	3101051040010	0.1uF	997	R120	B7E	3001056830000	68kΩ
199	C357	T7C	3101051010030	100pF	998	R122	B8E	3001051800000	18Ω
200	C358	T7D	3101051010030	100pF	999	R123	B8G	3001055100010	51Ω
201	C359	B7D	3101051010030	100pF	1000	R128	B7E	3001058230000	82kΩ
202	C36	T7E	3101051020010	1000pF	1001	R129	B8E	3001052710000	270Ω
203	C360	B7D	3101051010030	100pF	1002	R130	B8G	3001051210010	120Ω
204	C361	B7D	3101051010030	100pF	1003	R131	B8F	3001053320010	3.3kΩ
205	C362	T7B	3101058200000	82pF	1004	R132	B8G	3001053320000	3.3kΩ
206	C363	T7B	3101058200000	82pF	1005	R135	B8E	3001052710000	270Ω
207	C364	T7B	3101053900000	39pF	1006	R136	B8G	3001051210010	120Ω
208	C365	T7B	3101058200000	82pF	1007	R137	B7F	3001061510000	150Ω
209	C366	T6D	3101051040010	0.1uF	1008	R138	B8F	3001058220000	8.2kΩ
210	C368	T8A	3101051040010	0.1uF	1009	R139	B7E	3001061210000	120Ω
211	C369	T8A	3101053920000	3900pF	1010	R140	B8E	3001051010040	100Ω
212	C375	T7B	3101052000020	20pF	1011	R141	T8E	3101051510000	150pF
213	C376	T7C	3101052000020	20pF	1012	R142	B8E	3001053320000	3.3kΩ
214	C378	B7B	3101051010030	100pF	1013	R143	B8E	3001058220000	8.2kΩ
215	C379	B7B	3101051040010	0.1uF	1014	R144	B7G	3001061510000	150Ω
216	C38	T8F	3101061020040	1000pF	1015	R145	B8E	3001051010040	100Ω
217	C380	B7B	3101051040010	0.1uF	1016	R146	T8E	3001051010040	100Ω
218	C381	B7C	3101051030020	0.01uF	1017	R147	T7E	3001051010040	100Ω
219	C382	B6C	3101051040010	0.1uF	1018	R148	T8G	3001051010040	100Ω
220	C383	B7C	3101051040010	0.1uF	1019	R151	T7E	3001051530010	15kΩ
221	C384	B6B	3101051030020	0.01uF	1020	R152	T8E	3001054730000	47kΩ
222	C385	B6B	3101051010030	100pF	1021	R153	B8E	3221506601000	Ferrite bead
223	C386	B6C	3101051040010	0.1uF	1022	R155	T7E	3001051830000	18kΩ
224	C387	B7B	3101051040010	0.1uF	1023	R156	T7E	3001053300010	33Ω
225	C388	B7C	3101051040010	0.1uF	1024	R157	B8F	3221506601000	Ferrite bead
226	C389	B7B	3101051040010	0.1uF	1025	R158	B8F	3001053320000	3.3kΩ
227	C390	B7C	3101051010030	100pF	1026	R159	B8F	3001058220000	8.2kΩ
228	C391	T7C	3101051040010	0.1uF	1027	R160	B8G	3001051010040	100Ω
229	C392	B6C	3101051040010	0.1uF	1028	R162	T7E	3001058200000	82Ω
230	C393	B6C	3101051040010	0.1uF	1029	R167	T8G	3001053300010	33Ω
231	C394	B7B	3101051040010	0.1uF	1030	R171	T7F	3001060000000	0Ω
232	C396	T7B	3101061050020	1uF	1031	R174	T8E	3001050000000	0Ω
233	C398	B6B	3101051040010	0.1uF	1032	R175	T8F	3001051000000	10Ω
234	C399	B6B	3101051030020	0.01uF	1033	R176	B7F	3001054720000	4.7kΩ
235	C4	B7G	3101052000020	20pF	1034	R177	T7G	3001051030000	10kΩ
236	C400	B7B	3101051040010	0.1uF	1035	R178	T8G	3001053300010	33Ω
237	C401	T8A	3101071060010	10uF	1036	R179	B8F	3221506601000	Ferrite bead
238	C402	T6C	3101071060010	10uF	1037	R180	T7F	3001051030000	10kΩ
239	C407	T8C	3101051040010	0.1uF	1038	R181	T8F	3001051020000	1kΩ
240	C409	T8C	3101051010030	100pF	1039	R183	T7F	3001051020000	1kΩ
241	C410	T8C	3101051010030	100pF	1040	R186	B8G	3221506601000	Ferrite bead
242	C411	T8C	3101051010030	100pF	1041	R187	T8F	3001061000000	10Ω
243	C412	T8C	3101051010030	100pF	1042	R188	T8F	3001050000000	0Ω
244	C413	T8C	3101051010030	100pF	1043	R190	T8G	3001051010040	100Ω
245	C414	T8C	3101051010030	100pF	1044	R192	B7G	3001061510000	150Ω
246	C415	T8C	3101051010030	100pF	1045	R194	B8H	3001058220000	8.2kΩ
247	C416	T8C	3101051010030	100pF	1046	R195	T8G	3001052030000	20kΩ
248	C417	T8C	3101051010030	100pF	1047	R196	B8G	3001051010040	100Ω
249	C418	T8C	3101051010030	100pF	1048	R197	T8H	3001050000000	0Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
250	C419	B8D	3101051010030	100pF	1049	R198	T8G	3001053330010	33kΩ
251	C420	B8D	3101051010030	100pF	1050	R199	T8G	3001051540000	150kΩ
252	C421	T2C	3101052210010	220pF	1051	R2	T8E	3001060000000	0Ω
253	C422	T2B	3101051040010	0.1uF	1052	R200	T8G	3001050000000	0Ω
254	C423	T3C	3101052210010	220pF	1053	R202	B6D	3001051030000	10kΩ
255	C424	T2A	3101052210010	220pF	1054	R231	B6C	3001053300010	33Ω
256	C425	T3A	3101052210010	220pF	1055	R232	B6D	3001053300010	33Ω
257	C426	T3B	3101051010030	100pF	1056	R234	B6C	3001051030000	10kΩ
258	C427	T2B	3101051010030	100pF	1057	R235	B6C	3001051030000	10kΩ
259	C428	T2C	3101051010030	100pF	1058	R236	B6D	3001051030000	10kΩ
260	C429	T2B	3101051010030	100pF	1059	R237	B6A	3001055630000	56kΩ
261	C430	T2A	3101051010030	100pF	1060	R239	B6B	3001055620000	5.6kΩ
262	C431	T2A	3101051010030	100pF	1061	R241	B6A	3001055630000	56kΩ
263	C432	T2B	3101052210010	220pF	1062	R242	B6C	3001050000000	0Ω
264	C433	T3B	3101052210010	220pF	1063	R244	B5C	3001052230010	22kΩ
265	C434	T2B	3101052210010	220pF	1064	R246	B5C	3001052230010	22kΩ
266	C435	B8D	3101051010030	100pF	1065	R247	B5B	3001051040000	100kΩ
267	C436	T2C	3101052210010	220pF	1066	R248	B5B	3001051040000	100kΩ
268	C437	T2B	3101052210010	220pF	1067	R250	B5B	3001051530010	15kΩ
269	C438	B8C	3101054740020	0.47uF	1068	R251	B5B	3001051010040	100Ω
270	C439	B8C	3101054740020	0.47uF	1069	R252	B5C	3001051040000	100kΩ
271	C440	B8D	3101051010030	100pF	1070	R255	B5D	3001064710000	470Ω
272	C441	T8C	3101051010030	100pF	1071	R257	B5C	3001053030000	30kΩ
273	C442	B8B	3101051010030	100pF	1072	R258	B5C	3001051030000	10kΩ
274	C443	B8B	3101051010030	100pF	1073	R259	B5C	3001051030000	10kΩ
275	C444	B8A	3101051010030	100pF	1074	R260	B5C	3001051010040	100Ω
276	C445	B8B	3101051010030	100pF	1075	R261	B5D	3001051030000	10kΩ
277	C446	B8A	3101051010030	100pF	1076	R262	B5B	3001051040000	100kΩ
278	C447	B8B	3101051010030	100pF	1077	R263	B5B	3001053030000	30kΩ
279	C448	B8B	3101051010030	100pF	1078	R264	B5D	3001051020000	1kΩ
280	C449	B8A	3101051010030	100pF	1079	R265	B5B	3001051820000	1.8kΩ
281	C450	B8A	3101051010030	100pF	1080	R266	B5B	3001054730000	47kΩ
282	C451	B8A	3101051010030	100pF	1081	R267	B6D	3001051020000	1kΩ
283	C452	B8B	3101051010030	100pF	1082	R268	B5B	3001051040000	100kΩ
284	C453	B8B	3101051010030	100pF	1083	R269	B5B	3001051040000	100kΩ
285	C454	B8B	3101051010030	100pF	1084	R270	B5B	3001054730000	47kΩ
286	C455	B8B	3101051010030	100pF	1085	R271	B4B	3001051010040	100Ω
287	C456	B8B	3101051010030	100pF	1086	R272	B5B	3001054730000	47kΩ
288	C46	B8G	3101051520000	1500pF	1087	R273	B5C	3001052430010	24kΩ
289	C463	B8C	3101051010030	100pF	1088	R274	B5C	3001051040000	100kΩ
290	C465	B8C	3101051010030	100pF	1089	R275	B5C	3001051040000	100kΩ
291	C466	B8C	3101051010030	100pF	1090	R276	B5C	3001051040000	100kΩ
292	C467	B8C	3101051010030	100pF	1091	R277	B5C	3001054730000	47kΩ
293	C468	B8C	3101051010030	100pF	1092	R278	B4C	3001051010040	100Ω
294	C469	B8A	3101051010030	100pF	1093	R279	B6D	3001053030000	30kΩ
295	C471	B2C	3101051040010	0.1uF	1094	R280	B6C	3001051020000	1kΩ
296	C473	T8D	3101051040010	0.1uF	1095	R282	T6A	3001060000000	0Ω
297	C474	T3C	3101053920000	3900pF	1096	R283	B6D	3001053030000	30kΩ
298	C476	T3C	3101053920000	3900pF	1097	R284	B6D	3001051530010	15kΩ
299	C477	T8C	3101051010030	100pF	1098	R285	B6D	3001051530010	15kΩ
300	C478	T8C	3101051010030	100pF	1099	R286	B6B	3001054730000	47kΩ
301	C479	T8C	3101051010030	100pF	1100	R287	B6B	3001055620000	5.6kΩ
302	C480	T8C	3101051010030	100pF	1101	R288	B6A	3001054730000	47kΩ
303	C483	T2C	3101062250000	2.2uF	1102	R289	B6A	3001050000000	0Ω
304	C484	B2B	3101051040010	0.1uF	1103	R291	B6B	3001051220000	1.2kΩ
305	C49	B7G	3101061000000	10pF	1104	R292	B6B	3001053300010	33Ω
306	C5	B8G	3101052400010	24pF	1105	R293	B5D	3001053320000	3.3kΩ
307	C50	T8G	3101051520000	1500pF	1106	R295	B6A	3001051020000	1kΩ
308	C500	B7D	3101053300000	33pF	1107	R296	B6B	3001051040000	100kΩ
309	C501	B7C	3101053310030	330pF	1108	R297	B6B	3001053320000	3.3kΩ
310	C502	B7C	3101053320010	3300pF	1109	R3	T7F	3001050000000	0Ω
311	C503	B8C	3101051820000	1800pF	1110	R316	T6B	3001051030000	10kΩ
312	C506	B7C	3101051030020	0.01uF	1111	R319	T7B	3001053300010	33Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
313	C507	B7C	3101051030020	0.01uF	1112	R320	B7B	3001053300010	33Ω
314	C508	B8C	3101071060010	10uF	1113	R322	T6B	3001051030000	10kΩ
315	C509	B8C	3101051040010	0.1uF	1114	R324	T7C	3001053300010	33Ω
316	C510	B7C	3101051010030	100pF	1115	R326	T6B	3001051030000	10kΩ
317	C511	B7B	3101071060010	10uF	1116	R327	B7C	3001053300010	33Ω
318	C512	B8B	3101051040010	0.1uF	1117	R333	B6D	3001053300010	33Ω
319	C513	B8C	3101051020010	1000pF	1118	R337	T8C	3001051010040	100Ω
320	C514	B7C	3101051040010	0.1uF	1119	R338	T7B	3001051010040	100Ω
321	C515	B7C	3101051040010	0.1uF	1120	R339	T8C	3001051010040	100Ω
322	C516	B7C	3101051010030	100pF	1121	R346	B7C	3001051010040	100Ω
323	C517	B7C	3101051010030	100pF	1122	R347	T7C	3001053300010	33Ω
324	C518	B7C	3101051010030	100pF	1123	R348	T8B	3001050000000	0Ω
325	C519	B6C	3101071060010	10uF	1124	R349	T8B	3001053300010	33Ω
326	C52	B8G	3101051520000	1500pF	1125	R350	T8B	3001053300010	33Ω
327	C520	B6D	3101071060010	10uF	1126	R351	T6B	3001051030000	10kΩ
328	C53	B8G	3101051500080	15pF	1127	R352	B6C	3001053300010	33Ω
329	C54	T8G	3101051000020	10pF	1128	R353	T6A	3001051030000	10kΩ
330	C55	T7G	3101060300010	3pF	1129	R354	T7C	3001053300010	33Ω
331	C56	T8H	3101051520000	1500pF	1130	R355	B7C	3001053300010	33Ω
332	C58	T8G	3101051030020	0.01uF	1131	R356	B7A	3001050000000	0Ω
333	C59	T8G	3101052000020	20pF	1132	R357	T7C	3001053300010	33Ω
334	C6	B8F	3101051520000	1500pF	1133	R358	B7B	3001051000000	10Ω
335	C60	T8G	3101051520000	1500pF	1134	R360	B7B	3001051000000	10Ω
336	C6042	B8E	3101051040010	0.1uF	1135	R361	B7B	3001051530010	15kΩ
337	C6043	B8G	3101051040010	0.1uF	1136	R362	B7B	3001051530010	15kΩ
338	C6055	B8E	3101053690000	3.6pF	1137	R363	T3A	3001050000000	0Ω
339	C6056	B8F	3101050300000	3pF	1138	R364	T3A	3001050000000	0Ω
340	C6057	B8F	3101053690000	3.6pF	1139	R365	T3C	3001051030000	10kΩ
341	C6062	B8F	3101053300000	33pF	1140	R366	T3C	3001051030000	10kΩ
342	C6065	B8F	3101053300000	33pF	1141	R367	T7D	3001053300010	33Ω
343	C6066	B8E	3101054700010	47pF	1142	R368	T3C	3001051010040	100Ω
344	C6067	B8F	3101054700010	47pF	1143	R369	T7D	3001053300010	33Ω
345	C6068	B8G	3101053300000	33pF	1144	R370	T3C	3001051010040	100Ω
346	C6069	B8G	3101053300000	33pF	1145	R371	T7D	3001053300010	33Ω
347	C6075	B8G	3101052490010	2.4pF	1146	R372	T6D	3001051030000	10kΩ
348	C6076	B8G	3101052790060	2.7pF	1147	R373	T3C	3001053300010	33Ω
349	C6077	B8F	3101052490010	2.4pF	1148	R374	T7B	3001050000000	0Ω
350	C6083	B8G	3101052400010	24pF	1149	R375	T7C	3001050000000	0Ω
351	C6085	B8G	3101052400010	24pF	1150	R376	T6C	3001053300010	33Ω
352	C6089	B8G	3101051040010	0.1uF	1151	R377	T7C	3001051030000	10kΩ
353	C61	T7H	3101051500080	15pF	1152	R378	T7C	3001051020000	1kΩ
354	C6100	T4I	3101061050020	1uF	1153	R379	T7C	3001051030000	10kΩ
355	C6103	T4I	3101052210010	220pF	1154	R380	T7C	3001053300010	33Ω
356	C6106	T4J	3101052210010	220pF	1155	R381	T7C	3001053300010	33Ω
357	C6118	T4J	3101054710010	470pF	1156	R382	T7C	3001051020000	1kΩ
358	C6144	B5I	3101052210010	220pF	1157	R383	B7C	3001051020000	1kΩ
359	C6145	B5I	3101061050020	1uF	1158	R385	B7B	3001051030000	10kΩ
360	C6148	B7H	3101054710010	470pF	1159	R386	B6C	3001051000000	10Ω
361	C6149	B7H	3101061050020	1uF	1160	R387	T7B	3001053300010	33Ω
362	C6151	B8H	3101054710010	470pF	1161	R388	T7C	3001051000000	10Ω
363	C6152	B8I	3101050500010	5pF	1162	R389	T7A	3001053300010	33Ω
364	C6153	B8I	3101050400010	4pF	1163	R390	T7B	3001051030000	10kΩ
365	C6154	B8I	3101050600010	6pF	1164	R391	T8D	3001051030000	10kΩ
366	C6155	B7H	3101051030020	0.01uF	1165	R392	T8D	3001051030000	10kΩ
367	C6157	B8I	3101061010010	100pF	1166	R393	T8D	3001051030000	10kΩ
368	C6158	B8H	3001060000000	0Ω	1167	R394	T7D	3001051030000	10kΩ
369	C6159	B8H	3101052210010	220pF	1168	R395	T7D	3001054720000	4.7kΩ
370	C6160	B8H	3101054700010	47pF	1169	R396	T7D	3001054720000	4.7kΩ
371	C6161	B8I	3101052000020	20pF	1170	R398	T3A	3001054720000	4.7kΩ
372	C6162	B8I	3101051500080	15pF	1171	R399	T6A	3001050000000	0Ω
373	C6163	B8I	3101050700010	7pF	1172	R4	T8E	3001061010000	100Ω
374	C6164	B8I	3101052000020	20pF	1173	R400	T8D	3001051030000	10kΩ
375	C6166	T8I	3101052710000	270pF	1174	R401	B7B	3001051520010	1.5kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
376	C6168	T7I	3101051040010	0.1uF	1175	R402	T6D	3001053300010	33Ω
377	C6169	T8I	3101051040010	0.1uF	1176	R403	T6C	3001051010040	100Ω
378	C6170	T8I	3101051800070	18pF	1177	R404	T6C	3001051010040	100Ω
379	C6171	T7I	3101051040010	0.1uF	1178	R405	T8C	3001060000000	0Ω
380	C6172	B8I	3001050000000	0Ω	1179	R406	T6C	3001051010040	100Ω
381	C6173	T8H	3101051040010	0.1uF	1180	R407	T8C	3001053300010	33Ω
382	C6175	T8H	3101051040010	0.1uF	1181	R408	T8C	3001053300010	33Ω
383	C6176	T8H	3001060000000	0Ω	1182	R409	T8C	3001051010040	100Ω
384	C6177	T8I	3101062700010	27pF	1183	R410	T6C	3001051010040	100Ω
385	C6178	T8I	3101051030020	0.01uF	1184	R411	T6C	3001051010040	100Ω
386	C6179	T7H	3101051040010	0.1uF	1185	R412	T8C	3001053300010	33Ω
387	C6180	T8H	3101051040010	0.1uF	1186	R413	T7C	3001053300010	33Ω
388	C6183	T7H	3101050800000	8pF	1187	R414	T8A	3001051000000	10Ω
389	C6190	T8I	3101061050020	1uF	1188	R415	T8C	3001051010040	100Ω
390	C6193	B8H	3101061040010	0.1uF	1189	R416	T8C	3001052030000	20kΩ
391	C6202	B6J	3101051520000	1500pF	1190	R418	T2A	3001051030000	10kΩ
392	C6204	B6J	3101051020010	1000pF	1191	R420	T8C	3001053300010	33Ω
393	C6205	B6J	3101051020010	1000pF	1192	R421	T7C	3001051010040	100Ω
394	C6207	B6J	3101051020010	1000pF	1193	R422	T8B	3001051030000	10kΩ
395	C6208	B7J	3101051020010	1000pF	1194	R423	T8C	3001053300010	33Ω
396	C6209	B5J	3101055600000	56pF	1195	R424	T8C	3001053300010	33Ω
397	C6210	B5J	3101050800000	8pF	1196	R425	T8C	3001053300010	33Ω
398	C6211	B6J	3101050600010	6pF	1197	R426	T8A	3001050000000	0Ω
399	C6212	B5J	3101054700010	47pF	1198	R427	T2B	3001051030000	10kΩ
400	C6213	B6J	3101051020010	1000pF	1199	R428	T3B	3001054720000	4.7kΩ
401	C6214	B6J	3001050000000	0Ω	1200	R429	T7C	3001051030000	10kΩ
402	C6215	B6J	3101050900000	9pF	1201	R430	T8C	3001053300010	33Ω
403	C6218	B4J	3101050200010	2pF	1202	R431	T8C	3001053300010	33Ω
404	C6221	B5J	3101050200010	2pF	1203	R432	T8C	3001053300010	33Ω
405	C6222	B6J	3001050000000	0Ω	1204	R433	T8C	3001053300010	33Ω
406	C6223	B6J	3101051000030	10pF	1205	R434	T8D	3001051010040	100Ω
407	C6224	B6J	3101055600000	56pF	1206	R435	T3C	3001054720000	4.7kΩ
408	C6225	B6J	3101051000030	10pF	1207	R436	T2B	3001054720000	4.7kΩ
409	C6226	B6J	3101051000030	10pF	1208	R437	T2A	3001054720000	4.7kΩ
410	C6228	B7J	3101051520000	1500pF	1209	R438	T2A	3001051030000	10kΩ
411	C6230	B5I	3101051500080	15pF	1210	R439	T2A	3001051010040	100Ω
412	C6231	B5J	3101056800000	68pF	1211	R440	T6B	3001050000000	0Ω
413	C6232	B5J	3101056800000	68pF	1212	R441	B7A	3001051030000	10kΩ
414	C6233	B5J	3101056800000	68pF	1213	R442	T6A	3001051030000	10kΩ
415	C6235	B6J	3101056800000	68pF	1214	R443	T2A	3001051030000	10kΩ
416	C6236	B5J	3101056800000	68pF	1215	R445	T2A	3001051010040	100Ω
417	C6237	B6J	3101056800000	68pF	1216	R447	T2A	3001051030000	10kΩ
418	C6238	B6J	3101056800000	68pF	1217	R448	T2B	3001054720000	4.7kΩ
419	C6239	B6J	3101056800000	68pF	1218	R449	B2A	3001064730000	47kΩ
420	C6240	B6J	3101058200000	82pF	1219	R450	B2A	3001071020010	1kΩ
421	C6241	B5J	3101051520000	1500pF	1220	R451	B2B	3001051030000	10kΩ
422	C6242	B6J	3101051520000	1500pF	1221	R452	B3B	3001051030000	10kΩ
423	C6243	B5J	3101051040010	0.1uF	1222	R453	T6B	3001051030000	10kΩ
424	C6244	B7J	3101053900000	39pF	1223	R454	T3A	3001051030000	10kΩ
425	C6245	B7J	3101052000040	20pF	1224	R455	T3A	3001058230000	82kΩ
426	C6246	B7I	3101052000040	20pF	1225	R456	T8C	3001053300010	33Ω
427	C64	T7F	3110071040000	0.1uF	1226	R457	T8C	3001053300010	33Ω
428	C66	T7F	3110071040000	0.1uF	1227	R458	T8C	3001051010040	100Ω
429	C67	T7F	3110071040000	0.1uF	1228	R459	T8D	3001051010040	100Ω
430	C68	T7F	3110071040000	0.1uF	1229	R460	T8D	3001051020000	1kΩ
431	C69	T7F	3110071040000	0.1uF	1230	R461	B3C	3001051030000	10kΩ
432	C7	B8F	3101051040010	0.1uF	1231	R462	B3C	3001051030000	10kΩ
433	C70	T7F	3110071040000	0.1uF	1232	R463	B3C	3001051030000	10kΩ
434	C701	T6H	3101051030020	0.01uF	1233	R464	B2C	3001051030000	10kΩ
435	C702	T6H	3101051030020	0.01uF	1234	R465	B3C	3001051030000	10kΩ
436	C703	T6H	3101060300010	3pF	1235	R466	B2C	3001051030000	10kΩ
437	C704	T6H	3101052210010	220pF	1236	R467	B2C	3001053300010	33Ω
438	C705	T6H	3101051040010	0.1uF	1237	R468	T2B	3001054720000	4.7kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
439	C706	T6H	3101054710010	470pF	1238	R469	T2C	3001054720000	4.7kΩ
440	C707	T6H	3101051040010	0.1uF	1239	R470	T2B	3001054720000	4.7kΩ
441	C708	T6H	3101051040010	0.1uF	1240	R471	T2B	3001054720000	4.7kΩ
442	C709	T6I	3101051040010	0.1uF	1241	R472	T2B	3001054720000	4.7kΩ
443	C71	B7F	3101071050240	1uF	1242	R473	B2C	3001053300010	33Ω
444	C710	T6H	3101051020010	1000pF	1243	R474	B2C	3001053300010	33Ω
445	C712	T6H	3101051040010	0.1uF	1244	R476	T2C	3001051030000	10kΩ
446	C713	T6H	3101053330000	0.033uF	1245	R479	T6C	3001053300010	33Ω
447	C714	T6G	3101051000030	10pF	1246	R481	B6B	3001051030000	10kΩ
448	C715	T6H	3101063340010	0.33uF	1247	R482	B6B	3001051030000	10kΩ
449	C716	T6I	3101061810060	180pF	1248	R483	B6B	3001051030000	10kΩ
450	C717	B6H	3101054710010	470pF	1249	R484	T8C	3001054720000	4.7kΩ
451	C718	B6H	3101051050160	1uF	1250	R485	B8C	3001053300010	33Ω
452	C719	T6G	3101051050000	1uF	1251	R486	B8C	3001053300010	33Ω
453	C72	T7F	3110071040000	0.1uF	1252	R487	T7A	3001053300010	33Ω
454	C720	T6H	3101051040010	0.1uF	1253	R488	T8B	3001054720000	4.7kΩ
455	C721	T6H	3101051010030	100pF	1254	R489	T7A	3001053300010	33Ω
456	C722	T6H	3101051010030	100pF	1255	R490	T7A	3001053300010	33Ω
457	C723	B6H	3101056800000	68pF	1256	R491	B8C	3001053300010	33Ω
458	C724	B6H	3101054700010	47pF	1257	R492	T7A	3001053300010	33Ω
459	C725	B6H	3101051030020	0.01uF	1258	R493	T8C	3001054720000	4.7kΩ
460	C726	B6H	3104991060060	10uF	1259	R495	B8C	3001053300010	33Ω
461	C727	B6H	3101054710010	470pF	1260	R496	B3C	3001054720000	4.7kΩ
462	C728	T6H	3101051020010	1000pF	1261	R497	T2A	3001051040010	100kΩ
463	C729	T6H	3101051040010	0.1uF	1262	R498	B8C	3001053300010	33Ω
464	C730	B6H	3101053000010	30pF	1263	R499	B8B	3001054720000	4.7kΩ
465	C731	B6H	3101057590000	7.5pF	1264	R5	T7E	3001050000000	0Ω
466	C732	B6H	3101052700000	27pF	1265	R500	B7C	3001051040000	100kΩ
467	C733	T6H	3101051040010	0.1uF	1266	R501	B7C	3001051030000	10kΩ
468	C734	B6H	3101054700010	47pF	1267	R502	B7C	3001051020000	1kΩ
469	C735	T6H	3101051040010	0.1uF	1268	R503	B7C	3001051020000	1kΩ
470	C736	T6H	3101051030020	0.01uF	1269	R504	B7C	3001051020000	1kΩ
471	C737	T5H	3101051040010	0.1uF	1270	R505	B8C	3001050000000	0Ω
472	C738	T6H	3101051010030	100pF	1271	R506	B7C	3001051030000	10kΩ
473	C739	T6H	3101051010030	100pF	1272	R507	B7C	3001050000000	0Ω
474	C74	T7F	3110071040000	0.1uF	1273	R509	B7C	3001051030000	10kΩ
475	C740	T5H	3101051040010	0.1uF	1274	R510	B7C	3001051030000	10kΩ
476	C741	T5H	3101051040010	0.1uF	1275	R511	B8B	3001054720000	4.7kΩ
477	C742	T6H	3101061050020	1uF	1276	R512	B7C	3001051030000	10kΩ
478	C743	T6H	3101054700010	47pF	1277	R513	B7C	3001051040000	100kΩ
479	C744	B5H	3101051040010	0.1uF	1278	R514	B7C	3001051040000	100kΩ
480	C745	B6H	3101053300000	33pF	1279	R515	T7A	3001053300010	33Ω
481	C746	T5I	3101054710010	470pF	1280	R516	T7A	3001053300010	33Ω
482	C747	B5H	3101052200010	22pF	1281	R517	T7B	3001053300010	33Ω
483	C748	B6H	3101061040010	0.1uF	1282	R518	T7A	3001053300010	33Ω
484	C749	T6G	3101053900000	39pF	1283	R519	T7B	3001053300010	33Ω
485	C75	T7F	3101051020010	1000pF	1284	R520	T7B	3001053300010	33Ω
486	C750	B6H	3101071050240	1uF	1285	R521	T7B	3001053300010	33Ω
487	C751	T6G	3101051000030	10pF	1286	R522	T7A	3001053300010	33Ω
488	C752	T5I	3101074750000	4.7uF	1287	R523	B8B	3001053300010	33Ω
489	C754	T5I	3101061050020	1uF	1288	R524	B8B	3001053300010	33Ω
490	C755	T6I	3104991060060	10uF	1289	R525	B8B	3001053300010	33Ω
491	C756	T6I	3101051040010	0.1uF	1290	R526	B8B	3001053300010	33Ω
492	C76	T8F	3101051010030	100pF	1291	R527	B8B	3001053300010	33Ω
493	C763	T5H	3101051010030	100pF	1292	R528	B8C	3001056830000	68kΩ
494	C764	T5H	3101051010030	100pF	1293	R529	B8C	3001053330000	33kΩ
495	C765	T5H	3101051010030	100pF	1294	R530	T8D	3001051030000	10kΩ
496	C766	T6H	3101051010030	100pF	1295	R531	T8D	3001051030000	10kΩ
497	C767	T6H	3101051010030	100pF	1296	R532	T8C	3001051030000	10kΩ
498	C769	T6H	3101051010030	100pF	1297	R533	B8B	3001053300010	33Ω
499	C77	T8F	3101051010030	100pF	1298	R534	B8C	3001051030000	10kΩ
500	C78	T7F	3110071040000	0.1uF	1299	R535	B8C	3001051030000	10kΩ
501	C79	T7E	3101051020010	1000pF	1300	R536	T6B	3001050000000	0Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
502	C8	T8E	3101051520000	1500pF	1301	R538	T8C	3001051030000	10kΩ
503	C80	T8F	3101051030020	0.01uF	1302	R539	T8C	3001051030000	10kΩ
504	C801	B2F	3101084710010	470pF	1303	R540	T8D	3001051030000	10kΩ
505	C802	B2F	3101064700000	47pF	1304	R541	T8D	3001051030000	10kΩ
506	C803	B2F	3101063320000	3300pF	1305	R542	B3A	3001061020010	1kΩ
507	C804	B2F	3101092260010	22uF	1306	R543	T8C	3001051030000	10kΩ
508	C806	B2G	3101084710010	470pF	1307	R544	B6B	3001050000000	0Ω
509	C807	T5E	3101081060010	10uF	1308	R545	B7D	3001053300010	33Ω
510	C809	B5E	3101062210000	220pF	1309	R546	B3C	3001061010000	100Ω
511	C813	B6E	3001060000000	0Ω	1310	R547	B2B	3001061010000	100Ω
512	C814	B6E	3001060000000	0Ω	1311	R548	B2B	3001061010000	100Ω
513	C816	T3H	3101080800010	8pF	1312	R549	B3B	3001061010000	100Ω
514	C817	T2H	3101061020040	1000pF	1313	R550	B3C	3001061010000	100Ω
515	C818	B6E	3001060000000	0Ω	1314	R551	B2B	3001061010000	100Ω
516	C82	T8F	3101051520000	1500pF	1315	R552	B7D	3001053300010	33Ω
517	C820	T3E	3101371010000	100pF	1316	R553	B7D	3001053300010	33Ω
518	C821	T3H	3101080400010	4pF	1317	R554	T8D	3001051020000	1kΩ
519	C822	B6E	3101061520010	1500pF	1318	R555	T8D	3001051030000	10kΩ
520	C825	T3F	3101061010010	100pF	1319	R556	T3C	3001051010040	100Ω
521	C826	B5E	3101063000010	30pF	1320	R557	T2B	3001051010040	100Ω
522	C827	T4I	3101081020010	1000pF	1321	R558	B3C	3001053330000	33kΩ
523	C829	B5E	3101061040010	0.1uF	1322	R559	B2B	3001053330000	33kΩ
524	C83	T8F	3101051040010	0.1uF	1323	R560	B2B	3001053330000	33kΩ
525	C830	T4H	3101372000000	20pF	1324	R561	B3B	3001053330000	33kΩ
526	C833	T3F	3101082200010	22pF	1325	R562	B3C	3001053330000	33kΩ
527	C8330	T3F	3101371010000	100pF	1326	R563	T2B	3001051030000	10kΩ
528	C836	T2H	3101081200010	12pF	1327	R564	B7C	3001050000000	0Ω
529	C837	T3H	3101372400000	24pF	1328	R565	B7C	3001050000000	0Ω
530	C838	T4I	3101080400010	4pF	1329	R566	B7C	3001050000000	0Ω
531	C839	T5F	3101071830000	0.018uF	1330	R567	B7C	3001050000000	0Ω
532	C84	T7F	3110071040000	0.1uF	1331	R568	B3A	3001060000000	0Ω
533	C841	T3F	3101995600000	56pF	1332	R569	T2C	3001051030000	10kΩ
534	C843	T5E	3212106829000	8.2nH	1333	R570	T2C	3001064720000	4.7kΩ
535	C845	B5E	3101062210000	220pF	1334	R571	T6C	3001051030000	10kΩ
536	C847	T2J	3101061510050	150pF	1335	R572	T3C	3001053330000	33kΩ
537	C848	T3J	3101061510050	150pF	1336	R573	T3C	3001054720000	4.7kΩ
538	C85	T8E	3101051040010	0.1uF	1337	R574	T2C	3001064720000	4.7kΩ
539	C850	B2I	3101081020010	1000pF	1338	R575	T2B	3001053330000	33kΩ
540	C851	T2I	3101081800010	18pF	1339	R578	B7D	3001050000000	0Ω
541	C852	T3I	3101061010010	100pF	1340	R6	T7F	3001050000000	0Ω
542	C853	T6F	3101061520010	1500pF	1341	R6004	T5C	3001063320000	3.3kΩ
543	C854	T6F	3101061040010	0.1uF	1342	R6034	B8E	3001051020000	1kΩ
544	C856	T2G	3101995600000	56pF	1343	R6035	B8F	3001051030000	10kΩ
545	C857	T3J	3101061000000	10pF	1344	R6049	B8G	3001051020000	1kΩ
546	C858	T2I	3101060400010	4pF	1345	R6050	B8G	3001051020000	1kΩ
547	C859	T5G	3101061010010	100pF	1346	R6051	B8G	3001051030000	10kΩ
548	C86	T8F	3101051040010	0.1uF	1347	R6052	B8E	3001051020000	1kΩ
549	C860	T5F	3101064700000	47pF	1348	R6053	B8E	3001051030000	10kΩ
550	C861	T3I	3101068210000	820pF	1349	R6100	T4I	3001055110000	510Ω
551	C862	T3I	3101060200010	2pF	1350	R6106	T4J	3001066810000	680Ω
552	C863	T6E	3001061020010	1kΩ	1351	R6109	T4J	3001063910000	390Ω
553	C864	T6E	3101063900060	39pF	1352	R6113	B5H	3001052740000	270kΩ
554	C865	T6E	3210306101000	100nH	1353	R6114	B5H	3001053300010	33Ω
555	C866	T6F	3210306180000	18nH	1354	R6115	B5H	3001051040000	100kΩ
556	C867	T6G	3101062200010	22pF	1355	R6116	B5H	3001060000000	0Ω
557	C868	B4H	3101061040010	0.1uF	1356	R6117	B8H	3001078200000	82Ω
558	C869	T5G	3101061000000	10pF	1357	R6118	B8H	3001053320000	3.3kΩ
559	C87	T7E	3101051040010	0.1uF	1358	R6119	B8H	3001051220000	1.2kΩ
560	C870	T2G	3101373990000	3.9pF	1359	R6120	T8I	3001055100010	51Ω
561	C871	T6E	3101061590010	1.5pF	1360	R6121	B7H	3001051800000	18Ω
562	C875	B5I	3101051510000	150pF	1361	R6122	B8H	3001051220000	1.2kΩ
563	C877	T6E	3101061540000	0.15uF	1362	R6124	B7I	3001052710000	270Ω
564	C878	T6F	3101062210000	220pF	1363	R6125	B7I	3001052710000	270Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
565	C879	T2G	3101082700010	27pF	1364	R6126	B8H	3001078200000	82Ω
566	C88	T7F	3110071040000	0.1uF	1365	R6129	B8I	3001063310010	330Ω
567	C880	T6E	3101063330030	0.033uF	1366	R6130	T7I	3001055120030	5.1kΩ
568	C883	B4I	3101052210010	220pF	1367	R6131	T8I	3001051220000	1.2kΩ
569	C885	B2G	3101084710010	470pF	1368	R6132	T7I	3001055100010	51Ω
570	C886	B5F	3101068230000	0.082uF	1369	R6133	T8H	3001053310000	330Ω
571	C887	B5F	3101062210000	220pF	1370	R6134	T7H	3001053030000	30kΩ
572	C888	T3F	3101068200030	82pF	1371	R6135	T8H	3001054720000	4.7kΩ
573	C889	B2G	3101061020000	1000pF	1372	R6136	T8H	3001052030000	20kΩ
574	C89	T8F	3101051040010	0.1uF	1373	R6137	T7I	3001053030000	30kΩ
575	C890	B3I	3101052210010	220pF	1374	R6138	B8I	3001060000000	0Ω
576	C891	B3J	3101051210000	120pF	1375	R6139	T8H	3001055630000	56kΩ
577	C892	B5F	3101062210000	220pF	1376	R6140	T4I	3001060000000	0Ω
578	C893	T2H	3101081020010	1000pF	1377	R6201	B6J	3001056810000	680Ω
579	C894	B5H	3101051030020	0.01uF	1378	R6202	B6J	3001071000000	10Ω
580	C895	B4I	3101052210010	220pF	1379	R6203	B6J	3001052730010	27kΩ
581	C896	B3G	3101052210010	220pF	1380	R6204	B6J	3001052730010	27kΩ
582	C897	B3G	3101052210010	220pF	1381	R6205	B6J	3001055620000	5.6kΩ
583	C898	B6C	3101052210010	220pF	1382	R6207	B5J	3001050000000	0Ω
584	C899	B3J	3101051210000	120pF	1383	R6208	B6J	3001054310000	430Ω
585	C9	B8E	3101050600010	6pF	1384	R6209	B7J	3001054720000	4.7kΩ
586	C90	T8F	3101051520000	1500pF	1385	R6211	B6I	3001051220000	1.2kΩ
587	C900	T5C	3101061050020	1uF	1386	R6212	B5J	3001051040000	100kΩ
588	C901	T6C	3101061050020	1uF	1387	R6213	B6J	3001051040000	100kΩ
589	C902	T2E	3101064710000	470pF	1388	R6214	B5J	3001050000000	0Ω
590	C905	T3A	3101061050020	1uF	1389	R6215	B4J	3001050000000	0Ω
591	C906	T3A	3101061050020	1uF	1390	R701	T6I	3001055100010	51Ω
592	C907	T4B	3101051040010	0.1uF	1391	R703	T6H	3001052720000	2.7kΩ
593	C908	T5B	3101061050020	1uF	1392	R704	T6H	3001052220010	2.2kΩ
594	C909	B2G	3101062210000	220pF	1393	R705	T6H	3001051030000	10kΩ
595	C91	T7F	3110071040000	0.1uF	1394	R707	B6H	3001052210000	220Ω
596	C910	B5I	3101051020010	1000pF	1395	R708	B6H	3001054720000	4.7kΩ
597	C912	T5C	3101072250100	2.2uF	1396	R709	B6H	3001051030050	10kΩ
598	C913	B2G	3101061040110	0.1uF	1397	R710	B6H	3001058220000	8.2kΩ
599	C914	T5D	3101092260010	22uF	1398	R711	T6H	3001053300010	33Ω
600	C915	T4C	3101082260020	22uF	1399	R712	B6H	3001053310000	330Ω
601	C916	T2E	3101063320000	3300pF	1400	R713	T5H	3001051040000	100kΩ
602	C917	T6D	3101071060010	10uF	1401	R714	B5H	3001051820000	1.8kΩ
603	C918	T5D	3101052200010	22pF	1402	R715	T6H	3001053300010	33Ω
604	C919	T6C	3101072260000	22uF	1403	R716	B6H	3001055620000	5.6kΩ
605	C920	T5C	3101061030010	0.01uF	1404	R717	T6H	3001053300010	33Ω
606	C922	T5C	3101055600000	56pF	1405	R718	B6H	3001055110000	510Ω
607	C923	B4D	3101061050020	1uF	1406	R719	T5H	3001053300010	33Ω
608	C924	B4D	3101061050020	1uF	1407	R720	T5H	3001053300010	33Ω
609	C925	B5D	3101061050020	1uF	1408	R721	T5H	3001053300010	33Ω
610	C926	B7D	3101071060010	10uF	1409	R724	T5I	3001060000000	0Ω
611	C927	T4D	3101061040010	0.1uF	1410	R725	T6H	3001053300010	33Ω
612	C928	T5H	3101081060010	10uF	1411	R727	T5H	3001064730000	47kΩ
613	C929	T3G	3101371210000	120pF	1412	R728	T5H	3001064730000	47kΩ
614	C93	T8F	3101051020010	1000pF	1413	R805	B6E	3001060000000	0Ω
615	C930	B2F	3101061020000	1000pF	1414	R809	B6E	3001060000000	0Ω
616	C931	T2E	3101065610000	560pF	1415	R813	T5F	3001081000000	10Ω
617	C932	T6C	3101062250000	2.2uF	1416	R815	T2I	3001082730000	27kΩ
618	C933	B2A	3101092260010	22uF	1417	R816	T3J	3001076800000	68Ω
619	C934	B5D	3101062250000	2.2uF	1418	R818	T5F	3001081000000	10Ω
620	C935	B5D	3101061040010	0.1uF	1419	R819	T3I	3001076800000	68Ω
621	C936	T2G	3101083900010	39pF	1420	R821	B2I	3001113300000	33Ω
622	C938	T5D	3101092260010	22uF	1421	R822	B3J	3001060000000	0Ω
623	C94	T7F	3110071040000	0.1uF	1422	R823	B3J	3001061000000	10Ω
624	C940	B2F	3101061810060	180pF	1423	R824	T6E	3101064710000	470pF
625	C942	B3A	3101061040010	0.1uF	1424	R825	T3I	3001113300000	33Ω
626	C943	B2F	3101061210020	120pF	1425	R826	T6F	3001060000000	0Ω
627	C944	B3B	3101051020010	1000pF	1426	R827	T6E	3001062010000	200Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
628	C945	B3A	3101054710010	470pF	1427	R828	T6F	3001060000000	0Ω
629	C946	T6D	3101061050020	1uF	1428	R829	T6F	3001062010000	200Ω
630	C947	T4B	3101051030020	0.01uF	1429	R831	B5H	3001051020000	1kΩ
631	C948	T4B	3101051040010	0.1uF	1430	R835	T6E	3001063300000	33Ω
632	C95	T8G	3101051030020	0.01uF	1431	R836	B3J	3001062230000	22kΩ
633	C950	T3D	3101051040010	0.1uF	1432	R837	B5I	3001050000000	0Ω
634	C951	T5B	3110992270000	220uF	1433	R838	B5I	3001053930000	39kΩ
635	C952	T3C	3101061030010	0.01uF	1434	R839	B5H	3001051010000	100Ω
636	C953	B2G	3101061020000	1000pF	1435	R841	B5H	3001053330000	33kΩ
637	C954	B2G	3101062710000	270pF	1436	R842	B5I	3001051230000	12kΩ
638	C955	T3D	3101051040010	0.1uF	1437	R843	T6F	3001061230000	12kΩ
639	C956	T3D	3101081060010	10uF	1438	R844	T6F	3001065620000	5.6kΩ
640	C957	T3D	3101081060010	10uF	1439	R845	T6E	3001065620000	5.6kΩ
641	C958	T3D	3101051040010	0.1uF	1440	R846	T6E	3001064720000	4.7kΩ
642	C959	B2G	3101061010010	100pF	1441	R847	B5H	3001054730000	47kΩ
643	C96	T8F	3101051520000	1500pF	1442	R849	B5I	3001052220010	2.2kΩ
644	C960	T6F	3101063300000	33pF	1443	R852	B2J	3001064710000	470Ω
645	C962	B7D	3101051050160	1uF	1444	R853	B3J	3001064710000	470Ω
646	C963	B7D	3101061040010	0.1uF	1445	R854	B4I	3001055630000	56kΩ
647	C965	B8D	3101062250000	2.2uF	1446	R856	B5F	3001081800000	18Ω
648	C966	T5B	3101061050020	1uF	1447	R857	B5I	3001050000000	0Ω
649	C967	T6D	3101061010010	100pF	1448	R858	B5F	3001069120000	9.1kΩ
650	C968	B3B	3101051040010	0.1uF	1449	R859	B5F	3001061020010	1kΩ
651	C969	B3B	3101051040010	0.1uF	1450	R861	T5F	3001081000000	10Ω
652	C97	T8F	3101051030020	0.01uF	1451	R863	B3I	3001050000000	0Ω
653	C970	B2G	3101063910000	390pF	1452	R865	B4H	3001053930000	39kΩ
654	C971	T3F	3101061010010	100pF	1453	R866	B4I	3001052220010	2.2kΩ
655	C972	T3F	3101061210020	120pF	1454	R867	B5G	3001058220000	8.2kΩ
656	C973	T3F	3101061510050	150pF	1455	R869	B4H	3001051020000	1kΩ
657	C974	T3F	3101062210000	220pF	1456	R870	B5H	3001051530010	15kΩ
658	C975	B2G	3101063310010	330pF	1457	R872	B4H	3001051840000	180kΩ
659	C976	B2G	3101062210000	220pF	1458	R874	B5I	3001051020000	1kΩ
660	C977	B2G	3101061810060	180pF	1459	R875	B5I	3001053330000	33kΩ
661	C978	T7D	3101051040010	0.1uF	1460	R876	B3G	3001054330000	43kΩ
662	C979	B2G	3101061510050	150pF	1461	R877	B5E	3001054730000	47kΩ
663	C98	T8F	3101051040010	0.1uF	1462	R878	B2G	3001081000000	10Ω
664	C980	T3D	3101081060010	10uF	1463	R880	B5E	3001074720010	4.7kΩ
665	C981	T4D	3101081060010	10uF	1464	R881	B5E	3001074720010	4.7kΩ
666	C982	B2G	3101062210000	220pF	1465	R882	B4I	3001051840010	180kΩ
667	C983	B2G	3101061020000	1000pF	1466	R883	B3G	3001055630000	56kΩ
668	C984	B2G	3101065610000	560pF	1467	R884	B3G	3001051330000	13kΩ
669	C985	B2G	3101062210000	220pF	1468	R885	B3G	3001051030000	10kΩ
670	C986	B2G	3101064700000	47pF	1469	R886	B3G	3001052240000	220kΩ
671	C99	T8F	3101052710000	270pF	1470	R887	B4I	3001053910000	390Ω
672	C990	T5E	3101061520010	1500pF	1471	R889	B6C	3001050000000	0Ω
673	C991	T5E	3101061040010	0.1uF	1472	R890	B4H	3001053320000	3.3kΩ
674	C992	T5E	3101061010010	100pF	1473	R891	B3G	3001053320000	3.3kΩ
675	C994	B3G	3101058200000	82pF	1474	R892	B3I	3001058230000	82kΩ
676	C996	B3G	3101061040010	0.1uF	1475	R894	B4I	3001050000000	0Ω
677	C997	T7C	3101051040010	0.1uF	1476	R895	B4H	3001055630000	56kΩ
678	C998	T7D	3101062240000	0.22uF	1477	R897	B5E	3001061810000	180Ω
679	C999	T7D	3101051040010	0.1uF	1478	R898	B6E	3001062700000	27Ω
680	D100	T8F	3303030800020	Switching diode	1479	R899	B6E	3001061810000	180Ω
681	D101	B7E	3304010100220	Varactor	1480	R900	T6F	3001060000000	0Ω
682	D102	B7E	3304010100220	Varactor	1481	R902	B3G	3001054740010	470kΩ
683	D105	B7F	3304010100220	Varactor	1482	R903	B3G	3001054740010	470kΩ
684	D106	B7F	3304010100220	Varactor	1483	R904	B3G	3001054740010	470kΩ
685	D107	B7G	3304010100220	Varactor	1484	R905	B3G	3001054740010	470kΩ
686	D108	B7G	3304010100220	Varactor	1485	R906	T5H	3001064730000	47kΩ
687	D109	B7G	3304010100220	Varactor	1486	R907	B3G	3001050000000	0Ω
688	D110	B7G	3304010100220	Varactor	1487	R908	T5H	3001054720000	4.7kΩ
689	D111	B7E	3304010100220	Varactor	1488	R910	T6D	3001054720000	4.7kΩ
690	D112	B7E	3304010100220	Varactor	1489	R911	T5C	3001061030010	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
691	D113	B7F	3304010100220	Varactor	1490	R913	T6D	3001054720000	4.7kΩ
692	D116	B7E	3304010100220	Varactor	1491	R914	B6C	3001053330000	33kΩ
693	D117	B7E	3304010100220	Varactor	1492	R917	T5D	3001053340010	330kΩ
694	D121	B7G	3304010100220	Varactor	1493	R919	T5D	3001051540000	150kΩ
695	D122	B7G	3304010100220	Varactor	1494	R921	B3G	3001051830010	18kΩ
696	D125	B7G	3304010100220	Varactor	1495	R924	B4D	3001061020010	1kΩ
697	D126	B7G	3304010100220	Varactor	1496	R925	T6D	3001064720000	4.7kΩ
698	D127	T7E	3303030100010	Switching diode	1497	R929	B3A	3001051010040	100Ω
699	D128	B4I	3303030100010	Switching diode	1498	R930	B3A	3001051030000	10kΩ
700	D230	B5C	3310240000000	ESD protection diode	1499	R931	B3A	3001054730000	47kΩ
701	D231	B5C	3310240000000	ESD protection diode	1500	R932	T7C	3001064720000	4.7kΩ
702	D232	B8D	3310240000000	ESD protection diode	1501	R933	B3A	3001052030000	20kΩ
703	D233	T2B	3310240000000	ESD protection diode	1502	R934	B3A	3001055130010	51kΩ
704	D234	T6C	3310240200000	ESD protection diode	1503	R935	B3A	3001052430010	24kΩ
705	D236	T6C	3310240200000	ESD protection diode	1504	R936	B3A	3001052430010	24kΩ
706	D237	T5B	3310990000090	ESD protection diode	1505	R937	B3B	3001054720000	4.7kΩ
707	D238	T2C	3310240000000	ESD protection diode	1506	R938	B3B	3001051030000	10kΩ
708	D239	T5B	3310240200000	ESD protection diode	1507	R939	T7C	3001060000000	0Ω
709	D240	T2A	3310240000000	ESD protection diode	1508	R940	B3B	3001052230010	22kΩ
710	D402	T3C	3310240000000	ESD protection diode	1509	R941	B3B	3001051010040	100Ω
711	D403	T2A	3310240000000	ESD protection diode	1510	R942	B3B	3001054720000	4.7kΩ
712	D404	T2B	3310240000000	ESD protection diode	1511	R943	B3A	3001064730000	47kΩ
713	D405	T2B	3310240000000	ESD protection diode	1512	R944	B3B	3001052230010	22kΩ
714	D406	T2B	3310240000000	ESD protection diode	1513	R945	B3B	3001051030000	10kΩ
715	D407	T8B	3399040600010	ESD protection diode	1514	R946	B3A	3001071020010	1kΩ
716	D408	B8C	3399040600010	ESD protection diode	1515	R947	B3B	3001051010040	100Ω
717	D409	T3C	3310240000040	ESD protection diode	1516	R948	B3A	3001051010040	100Ω
718	D410	B2B	3310240000040	ESD protection diode	1517	R949	B3A	3001054730000	47kΩ
719	D450	T2C	3699037000010	USB protection IC	1518	R950	T3C	3001051030000	10kΩ
720	D6009	B8E	3303030800020	Switching diode	1519	R953	B3D	3001061000000	10Ω
721	D6010	B8F	3303030800020	Switching diode	1520	R954	B7D	3001061020010	1kΩ
722	D6014	B8G	3303030800020	Switching diode	1521	R955	B2A	3001052030000	20kΩ
723	D6015	B8F	3303030800020	Switching diode	1522	R956	B3A	3001051840000	180kΩ
724	D6100	T4J	3399030000010	PIN diode	1523	R957	B3A	3001051020000	1kΩ
725	D6106	B8J	3699019000000	Mixer IC	1524	R958	B3D	3001066810000	680Ω
726	D6201	B5J	3304010100390	Varactor	1525	R959	B2A	3001056830000	68kΩ
727	D6202	B6J	3304010100390	Varactor	1526	R961	B3D	3001083310010	330Ω
728	D6203	B5I	3311990000410	Schottky diode	1527	R962	T3C	3001060000000	0Ω
729	D701	B6G	3304010100220	Varactor	1528	R963	T3C	3001060000000	0Ω
730	D702	B6H	3304010100180	Varactor	1529	R964	T3C	3001052220010	2.2kΩ
731	D801	T2H	3303990000020	Switching diode	1530	R965	T3C	3001060000000	0Ω
732	D802	T3I	3303990000020	Switching diode	1531	R966	B3D	3001161510010	150Ω
733	D803	B3J	3303030300000	Schottky barrier diode	1532	R967	T7D	3001050000000	0Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
734	D804	B3I	3303030300000	Schottky barrier diode	1533	R968	T3C	3001052220010	2.2kΩ
735	D805	B4H	3302030500030	Zener diode	1534	R969	T3C	3001064730000	47kΩ
736	D806	B6C	3303030800020	Switching diode	1535	R970	T3C	3001061020010	1kΩ
737	D900	T2D	3399100000010	TVS diode	1536	R971	T3C	3099052741000	2.74kΩ
738	D902	T5C	3301100300030	Rectifier diode	1537	R972	T3C	3001062220000	2.2kΩ
739	D906	B3A	3303030100010	Switching diode	1538	R974	B3A	3001062720000	2.7kΩ
740	D908	T3A	3303240000000	Switching diode	1539	R975	B3A	3001052030000	20kΩ
741	D910	B3A	3302030500010	Zener diode	1540	R976	B3A	3001051030000	10kΩ
742	D911	B2A	3302030500010	Zener diode	1541	R978	B3A	3001062720000	2.7kΩ
743	D914	B3A	3303240000000	Switching diode	1542	R982	T3C	3001051040000	100kΩ
744	D915	T3C	3303010500290	Switching diode	1543	R983	T7D	3001050000000	0Ω
745	D916	T2A	3303010500090	Switching diode	1544	R984	B3A	3001052210000	220Ω
746	D917	T3C	3302030500030	Zener diode	1545	R985	T7C	3001050000000	0Ω
747	D918	T3C	3302030500030	Zener diode	1546	R986	T7D	3001050000000	0Ω
748	D919	T2A	3303010500090	Switching diode	1547	R987	T7C	3001051040000	100kΩ
749	D920	B3A	3303240000000	Switching diode	1548	RN230	B6C	3005051010010	100Ω
750	D921	T2A	3302030500030	Zener diode	1549	RN500	B7B	3005051010010	100Ω
751	D922	T7C	3303010500090	Switching diode	1550	RT804	B4G	3003061040000	100kΩ
752	F900	B3B	4002000000340	Recoverable fuse	1551	S1	/	6202720000010	PA head sink pad
753	J400	T8C	5201020200030	Board-to-board connector	1552	T6100	B7J	3259999999080	Transformer
754	J404	B9C	5206040200010	FFC connector	1553	T6101	B8J	3259999999080	Transformer
755	L1	B7F	3213212332000	3.3uH	1554	U100	T8F	3604019000000	PLL IC
756	L103	B8E	3217107102000	1uH	1555	U101	T7F	3616059000000	Switching IC
757	L105	B7E	3211256000000	56nH	1556	U102	T7E	3616059000000	Switching IC
758	L106	B7E	3214307181000	180nH	1557	U201	B5B	3602017000030	Audio amplifier IC
759	L107	B8E	3217607681000	680nH	1558	U231	B6C	3613010000000	Baseband processor IC
760	L108	B7E	3217607681000	680nH	1559	U232	T6B	3612024000020	Memory
761	L110	B8F	3217107102000	1uH	1560	U233	T7A	3612016000000	Memory
762	L112	B7F	3217607681000	680nH	1561	U235	B5C	3605010000020	Operational amplifier
763	L114	B7F	3211256000000	56nH	1562	U236	B5C	3605010000020	Operational amplifier
764	L115	B7F	3217107121000	120nH	1563	U237	B6B	3616010000000	Switching IC
765	L116	B8E	3217607681000	680nH	1564	U238	B6B	3605008005070	Operational amplifier
766	L117	B8G	3217607681000	680nH	1565	U302	T6B	3610010000010	MCU
767	L118	B8G	3217607681000	680nH	1566	U326	T3B	3625999000060	GPS module
768	L121	B8F	3217107102000	1uH	1567	U327	T6D	3607010000400	Logic IC
769	L124	B7G	3237110220000	Air-core coil 22nH	1568	U328	B2C	3607010000400	Logic IC
770	L126	B7G	3214307151000	150nH	1569	U401	B3B	3616010000150	Switching IC
771	L127	B8G	3217607681000	680nH	1570	U500	B7C	3606010000010	D/A conversion IC
772	L129	B7G	3217607681000	680nH	1571	U6000	B5H	3605002057090	Operational amplifier
773	L131	T7E	3221506601000	Ferrite bead	1572	U6001	T7D	3626999000020	Reset IC
774	L132	T7E	3210406331000	330nH	1573	U701	T6H	3603999000000	IF IC
775	L133	B7G	3217607681000	680nH	1574	U702	T5I	3608006000000	Power management IC
776	L134	B8G	3217107102000	1uH	1575	U703	T5I	3608015000060	Power management IC
777	L135	T8E	3210306151000	150nH	1576	U801	B5H	3605026000020	Operational amplifier
778	L136	T7E	3210306470000	47nH	1577	U802	B4H	3605002054590	Operational amplifier
779	L137	B7G	3237110270000	Air-core coil 27nH	1578	U804	B3G	3605008005070	Operational amplifier
780	L139	B7G	3217107121000	120nH	1579	U900	T5C	3608015000180	Power management IC
781	L140	B8G	3217607681000	680nH	1580	U901	T3A	3608015000180	Power management IC
782	L147	T7B	3210406471000	470nH	1581	U902	T5C	3608010000350	Power

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
									management IC
783	L151	T7B	3210406471000	470nH	1582	U903	T5B	3608015000170	Power management IC
784	L152	B7F	3221506601000	Ferrite bead	1583	U905	B4D	3608015000060	Power management IC
785	L154	T8F	3213306561000	0.56uH	1584	U909	B5D	3608015000180	Power management IC
786	L156	T7F	3213212332000	3.3uH	1585	U910	T7D	3626015000010	Reset IC
787	L162	T8G	3210406331000	330nH	1586	U914	T3C	3605008005070	Operational amplifier
788	L167	B8G	3210306101000	100nH	1587	U915	B7D	3608015000060	Power management IC
789	L168	B8E	3210306101000	100nH	1588	U917	B3A	3609006003050	Reset IC
790	L169	T8G	3210306820000	82nH	1589	U918	B7D	3608015000210	Power management IC
791	L171	T7H	3210306330000	33nH	1590	U919	T6D	3608010006230	Power management IC
792	L173	T7H	3210306390000	39nH	1591	W321	T3A	4411100002000	IPX RF connector
793	L2	T7E	3210306470000	47nH	1592	X100	T8E	3701019250030	TCXO
794	L232	B4C	3221506300000	磁珠	1593	X302	T8B	3701019250040	TCXO
795	L233	B5C	3211506101000	磁珠	1594	X375	T8B	3701327610060	Crystal
796	L234	B5D	3211506101000	磁珠	1595	Z6100	T8I	3802448540040	Crystal filter
797	L235	B5D	3211506101000	磁珠	1596	/	/	9830000000001	Voice encoding/decoding software
798	L321	T3A	3212106390000	39nH	1597	/	/	41MD7801001F0	PCB main board
799	L322	T3A	3221506300000	磁珠	/	/	/	/	/

12.4 Main Board (50W)

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
1	C1	T7E	3101051520000	1500pF	813	L406	B8A	3221506300000	Ferrite bead
2	C10	B8G	3101061300000	13pF	814	L407	B8B	3221506300000	Ferrite bead
3	C100	T7H	3101051520000	1500pF	815	L408	B8B	3221506300000	Ferrite bead
4	C1000	T8F	3101052210010	220pF	816	L409	B8B	3221506300000	Ferrite bead
5	C1001	B7F	3101051520000	1500pF	817	L410	B8B	3221506300000	Ferrite bead
6	C1002	T8F	3101051020010	1000pF	818	L411	B8B	3221506300000	Ferrite bead
7	C1003	B7F	3101054710010	470pF	819	L412	B8B	3221506300000	Ferrite bead
8	C1004	T8F	3101063300000	33pF	820	L414	B8D	3001050000000	0Ω
9	C1005	T7F	3110071040000	0.1uF	821	L415	B8C	3001050000000	0Ω
10	C1006	B8F	3101051040010	0.1uF	822	L417	T2C	3221505121000	Ferrite bead
11	C1007	T7F	3110071040000	0.1uF	823	L418	T2C	3221505121000	Ferrite bead
12	C1008	T7D	3101051050000	1uF	824	L5	B8E	3217607681000	680nH
13	C1009	T7G	3101071050240	1uF	825	L6	T8F	3221506601000	Ferrite bead
14	C101	T7E	3101053690010	3.6pF	826	L6015	B8E	3221505121010	Ferrite bead
15	C1010	T7G	3101051520000	1500pF	827	L6021	B8F	3217106820010	82nH
16	C1011	T7C	3101051020010	1000pF	828	L6025	B8F	3217106689010	6.8nH
17	C1013	T8E	3104991060060	10uF	829	L6026	B8F	3210106680000	68nH
18	C1015	B7F	3101054710010	470pF	830	L6027	B8E	3210106680000	68nH
19	C1018	T5E	3101061020040	1000pF	831	L6029	B8G	3217106560000	56nH
20	C1019	T5E	3101064710000	470pF	832	L6030	B8G	3217106470000	47nH
21	C102	T7G	3101060500010	5pF	833	L6031	B8G	3217106470000	47nH
22	C1020	B2J	3101062200010	22pF	834	L6032	B8G	3217106569000	5.6nH
23	C103	T7G	3110071040000	0.1uF	835	L6034	B8G	3217106569000	5.6nH
24	C11	T7E	3101051520000	1500pF	836	L6035	B8F	3217106689010	6.8nH
25	C12	B7G	3101051100010	11pF	837	L6036	B8G	3221505121010	Ferrite bead
26	C121	T8G	3101051010030	100pF	838	L6037	B8E	3217106689010	6.8nH
27	C122	T7F	3101062240000	0.22uF	839	L6038	B8F	3217106689010	6.8nH
28	C123	T8F	3101061040010	0.1uF	840	L6039	B8G	3217106569000	5.6nH
29	C13	B7E	3101050600010	6pF	841	L6040	B8G	3217106569000	5.6nH
30	C132	T8F	3101062240000	0.22uF	842	L6101	T4I	3211506101000	Ferrite bead
31	C1320	T8F	3101051010030	100pF	843	L6114	B5I	3211506101000	Ferrite bead

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
32	C136	B7E	3101074750000	4.7uF	844	L6115	B7H	3211506101000	Ferrite bead
33	C14	T7E	3101051520000	1500pF	845	L6116	B8H	3210306470000	47nH
34	C141	B8F	3101051040010	0.1uF	846	L6117	B8I	3210306390000	39nH
35	C142	B8F	3101051520000	1500pF	847	L6118	B8I	3210306220000	22nH
36	C147	B8F	3101051520000	1500pF	848	L6119	B8I	3210306330000	33nH
37	C148	B8H	3101051520000	1500pF	849	L6120	T7I	3210306470000	47nH
38	C149	B8H	3101051040010	0.1uF	850	L6121	T7I	3211506101000	Ferrite bead
39	C15	T7E	3101051800070	18pF	851	L6122	T7I	3101061040010	0.1uF
40	C150	B8G	3101051520000	1500pF	852	L6123	T7H	3213306821000	0.82uH
41	C151	B8F	3101061100010	11pF	853	L6125	T8I	3210406471000	470nH
42	C152	B7E	3101050900000	9pF	854	L6200	B5J	3211506101000	Ferrite bead
43	C153	B8F	3101053900000	39pF	855	L6202	B6J	3210306561010	560nH
44	C154	B8G	3101053300000	33pF	856	L6203	B6J	3210106560000	56nH
45	C155	B8G	3101061600000	16pF	857	L6210	B6I	3210306330000	33nH
46	C156	B7E	3101051520000	1500pF	858	L6213	B7J	3210305560000	56nH
47	C157	B8F	3101051510000	150pF	859	L6216	B7J	3210305560000	56nH
48	C158	B7F	3101053300000	33pF	860	L7	T8G	3221506601000	Ferrite bead
49	C159	B7F	3101051000020	10pF	861	L701	T6H	3221506601000	Ferrite bead
50	C16	T7E	3101052400010	24pF	862	L702	T6H	3221506601000	Ferrite bead
51	C160	B7G	3101051520000	1500pF	863	L703	T6H	3221506601000	Ferrite bead
52	C161	B8G	3101051810010	180pF	864	L704	T6I	3213212103000	10uH
53	C162	B8G	3101053000010	30pF	865	L705	T6I	3213212103000	10uH
54	C163	B8F	3101051040010	0.1uF	866	L706	T5H	3221506601000	Ferrite bead
55	C164	B7G	3101051100010	11pF	867	L707	T5I	3221506601000	Ferrite bead
56	C165	B7G	3101051000030	10pF	868	L708	B6H	3297107391000	390nH
57	C166	B8F	3101051500080	15pF	869	L709	T5H	3221506601000	Ferrite bead
58	C167	B8G	3101051040010	0.1uF	870	L710	T6H	3221506601000	Ferrite bead
59	C168	B8G	3101051500080	15pF	871	L711	T5H	3221506601000	Ferrite bead
60	C17	T8E	3101061520010	1500pF	872	L712	T6I	3221506601000	Ferrite bead
61	C177	B7F	3101061000000	10pF	873	L713	T6G	3213306561000	0.56uH
62	C18	B7G	3101051100010	11pF	874	L714	T5H	3221506601000	Ferrite bead
63	C181	B7E	3101050100030	1pF	875	L715	B5H	3213212332000	3.3uH
64	C184	B7E	3101051520000	1500pF	876	L716	T6H	3210406331000	330nH
65	C185	B8E	3101051510000	150pF	877	L717	T6G	3213306472000	4.7uH
66	C186	B8F	3101051520000	1500pF	878	L718	B6H	3001060000000	0Ω
67	C191	B7E	3101053300000	33pF	879	L8	T8F	3221506601000	Ferrite bead
68	C193	B8E	3101053900000	39pF	880	L801	B2G	3221513600000	Ferrite bead
69	C194	B8E	3101051520000	1500pF	881	L802	T5E	3221513600000	Ferrite bead
70	C195	B8E	3101051040010	0.1uF	882	L803	B2G	3221513600000	Ferrite bead
71	C196	B8E	3101060700020	7pF	883	L804	T3F	3233099400010	Air-core coil 40nH
72	C197	B7G	3101051520000	1500pF	884	L805	B6E	3210306101000	100nH
73	C198	B7E	3101050800000	8pF	885	L806	B3G	3213306102000	1uH
74	C199	T7E	3101051030020	0.01uF	886	L807	T2H	3210406331000	330nH
75	C2	T7E	3101060700020	7pF	887	L808	T2G	3233099160000	Air-core coil 16nH
76	C20	T8G	3101061500010	15pF	888	L809	T3H	3233099400010	Air-core coil 40nH
77	C200	B6D	3101061050020	1uF	889	L810	T4H	3233099400010	Air-core coil 40nH
78	C21	T7E	3101054720000	4700pF	890	L811	B6E	3210306470000	47nH
79	C22	T7H	3101051500080	15pF	891	L812	B2F	3221513600000	Ferrite bead
80	C23	B8E	3101051520000	1500pF	892	L813	T3H	3233099400010	Air-core coil 40nH
81	C232	B4C	3101051040010	0.1uF	893	L814	T5E	3212106470000	47nH
82	C233	B4C	3101051040010	0.1uF	894	L815	B3I	3221506601000	Ferrite bead
83	C234	B4C	3101081060010	10uF	895	L816	B2H	3233099111000	Air-core coil 111nH
84	C235	B4C	3101051030020	0.01uF	896	L817	T2I	3233099400010	Air-core coil 40nH
85	C236	B6C	3101051040010	0.1uF	897	L818	B2F	3221513600000	Ferrite bead
86	C237	B6B	3101054740020	0.47uF	898	L819	T6F	3239999450000	Air-core coil 45nH
87	C238	B6D	3101061050020	1uF	899	L820	T6E	3210209102010	1uH
88	C239	B6C	3101051040010	0.1uF	900	L821	B4H	3221506601000	Ferrite bead
89	C24	B8E	3101051040010	0.1uF	901	L822	B6E	3221506601000	Ferrite bead
90	C240	B6D	3101051040010	0.1uF	902	L823	T6E	3101061500010	15pF
91	C241	B6B	3001060000000	0Ω	903	L824	T6G	3221506601000	Ferrite bead
92	C242	B6B	3101062210000	220pF	904	L825	T6E	3221506601000	Ferrite bead
93	C243	B6B	3101051040010	0.1uF	905	L826	B5E	3101064710000	470pF

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
94	C245	B6A	3101062210000	220pF	906	L827	T6E	3101061020000	1000pF
95	C246	B6B	3101052230000	0.022uF	907	L828	T2J	3217112102020	1uH
96	C247	B5C	3101052210010	220pF	908	l829	T6E	3001060000000	0Ω
97	C248	B6C	3101051040010	0.1uF	909	L830	T5F	3101062710000	270pF
98	C249	B5C	3101061050020	1uF	910	L831	T6F	3001072210000	220Ω
99	C25	B8E	3101051500080	15pF	911	L832	T3J	3212106180000	18nH
100	C250	B5B	3101052210010	220pF	912	L833	T2J	3001061000070	10Ω
101	C251	B6D	3101061050020	1uF	913	L834	T6G	3237199609000	Air-core coil 6.0nH
102	C252	B5B	3101061050020	1uF	914	L835	T5F	3001060000000	0Ω
103	C253	B5B	3101061050020	1uF	915	L836	T5E	3221513600000	Ferrite bead
104	C254	B5C	3101052210010	220pF	916	L837	B3J	3210306820000	82nH
105	C255	B6C	3101051050000	1uF	917	L9	T7G	3221506601000	Ferrite bead
106	C256	B6D	3101051010030	100pF	918	L900	T4B	3221513600000	Ferrite bead
107	C257	B5C	3101061050020	1uF	919	L901	T5B	3221506300000	Ferrite bead
108	C258	B6C	3101051040010	0.1uF	920	L902	T4C	3217699153000	15uH
109	C259	B6D	3101061050020	1uF	921	L903	T6C	3213099472000	4.7uH
110	C26	B7E	3101064590010	4.5pF	922	L904	B4D	3221506181000	Ferrite bead
111	C260	B5D	3101051030020	0.01uF	923	L908	B5D	3221506181000	Ferrite bead
112	C261	B5D	3101051030020	0.01uF	924	L909	T8A	3221506181000	Ferrite bead
113	C262	B6D	3101061050020	1uF	925	L912	T6C	3221506300000	Ferrite bead
114	C263	B5C	3101061050020	1uF	926	L913	T6C	3221506300000	Ferrite bead
115	C264	B5B	3101061050020	1uF	927	L916	T3D	3221513600000	Ferrite bead
116	C265	B5B	3101052210010	220pF	928	L917	B2B	3221513600000	Ferrite bead
117	C266	B5C	3101061050020	1uF	929	L930	T4D	3241799103000	10uH
118	C267	B5D	3101051040010	0.1uF	930	L931	T6D	3213099472000	4.7uH
119	C268	B6A	3101064740010	0.47uF	931	L940	T2D	3221513600000	Ferrite bead
120	C269	B5C	3101052210010	220pF	932	P1	/	6202010000010	APC shielding mask
121	C27	B7E	3101050100030	1pF	933	P2	/	6203077000000	VCO shielding mask
122	C270	B5D	3101052210010	220pF	934	Q100	B8E	3408002000080	NPN transistor
123	C271	B5D	3101052210010	220pF	935	Q101	B8E	3403999000000	Compound transistor
124	C272	B5D	3101052210010	220pF	936	Q102	T8E	3401002000990	NPN transistor
125	C273	B6D	3101052210010	220pF	937	Q103	B8F	3408002000080	NPN transistor
126	C274	B5D	3101051040010	0.1uF	938	Q104	B7F	3403003000060	NPN transistor
127	C275	B5B	3101071060010	10uF	939	Q105	B8F	3403999000000	Compound transistor
128	C276	B5B	3101051050000	1uF	940	Q106	B8G	3408002000080	NPN transistor
129	C277	B4B	3101061050020	1uF	941	Q107	T7E	3404006000000	NPN transistor
130	C278	B5C	3101061050020	1uF	942	Q108	B8F	3403999000000	Compound transistor
131	C279	B5C	3101061050020	1uF	943	Q109	T8H	3404006000000	NPN transistor
132	C28	B8E	3101051520000	1500pF	944	Q110	B8G	3408002000080	NPN transistor
133	C280	B5C	3101052210010	220pF	945	Q111	T8G	3401002000990	NPN transistor
134	C281	B5C	3101061050020	1uF	946	Q112	B8H	3403999000000	Compound transistor
135	C282	B4C	3101061050020	1uF	947	Q116	T7G	3403999000000	Compound transistor
136	C283	B6A	3101061040010	0.1uF	948	Q117	T7E	3403999000000	Compound transistor
137	C284	B6B	3101092260010	22uF	949	Q230	B6A	3499000000150	Compound transistor
138	C285	B6B	3101051040010	0.1uF	950	Q231	B5C	3499000000150	Compound transistor
139	C286	B5D	3101081060010	10uF	951	Q232	B5D	3499000000150	Compound transistor
140	C287	B6A	3101064740000	0.47uF	952	Q233	B5B	3499000000150	Compound transistor
141	C288	B6B	3101051010030	100pF	953	Q234	B5C	3499000000150	Compound transistor
142	C289	B6A	3101061040010	0.1uF	954	Q235	B5C	3499000000150	Compound transistor
143	C29	B8F	3101051520000	1500pF	955	Q323	T8C	3403008000010	BRT

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
144	C290	B6B	3101061050020	1uF	956	Q400	B2A	3403002000000	PNP transistor
145	C291	B6B	3101061050020	1uF	957	Q401	T3A	3403008000010	BRT
146	C293	B6B	3101071060010	10uF	958	Q402	T2B	3403008000010	BRT
147	C294	B6A	3101063340010	0.33uF	959	Q403	B2A	3403008000010	BRT
148	C295	B6C	3101051010030	100pF	960	Q404	B2B	3403008000010	BRT
149	C296	B6A	3101051010030	100pF	961	Q405	T2A	3403008000010	BRT
150	C297	B6A	3101092260010	22uF	962	Q406	B3C	3414999000000	BRT
151	C298	B5D	3101061050020	1uF	963	Q407	B2B	3414999000000	BRT
152	C299	B6D	3101061050020	1uF	964	Q408	B2B	3414999000000	BRT
153	C3	B8G	3101051510000	150pF	965	Q409	B3C	3414999000000	BRT
154	C30	B8F	3101051040010	0.1uF	966	Q410	B3C	3414999000000	BRT
155	C300	B4C	3101061040010	0.1uF	967	Q411	T2B	3414999000000	BRT
156	C301	B4C	3101063920000	3900pF	968	Q412	T2C	3414999000000	BRT
157	C302	B5D	3101063920000	3900pF	969	Q413	T6C	3403008000010	BRT
158	C305	B6B	3101051050000	1uF	970	Q414	T3C	3414999000000	BRT
159	C306	B6B	3101051030020	0.01uF	971	Q415	T2C	3599990000710	P-MOSFET
160	C307	B6B	3101051010030	100pF	972	Q416	T2C	3414001000020	PNP transistor
161	C308	B7A	3101051040010	0.1uF	973	Q6100	T4J	3499000000150	Compound transistor
162	C309	B7A	3101051010030	100pF	974	Q6103	B8I	3404999000000	NPN transistor
163	C31	B8G	3101061100010	11pF	975	Q6104	T7I	3404006000000	NPN transistor
164	C310	T7A	3101051050000	1uF	976	Q6105	T8H	3404006000000	NPN transistor
165	C311	B6B	3101051040010	0.1uF	977	Q6201	B6J	3403014000020	Compound transistor
166	C32	B8G	3101051500080	15pF	978	Q6202	B6J	3404999000000	NPN transistor
167	C325	T8B	3101051040010	0.1uF	979	Q701	B6H	3408002000000	NPN transistor
168	C326	T7C	3101051010030	100pF	980	Q702	B6H	3403003000060	NPN transistor
169	C329	T7D	3101051040010	0.1uF	981	Q801	B6E	3404999000000	NPN transistor
170	C33	B8G	3101051500080	15pF	982	Q802	T4G	3601017000000	RF PA module
171	C330	T3A	3101051040010	0.1uF	983	Q803	T4F	3601017000000	RF PA module
172	C331	T3A	3101071060010	10uF	984	Q804	T6F	3504990000070	N-MOSFET
173	C332	T3A	3101051040010	0.1uF	985	Q805	T6E	3504990000010	PA MOSFET
174	C333	T3A	3101071060010	10uF	986	Q810	B5E	3403002000000	PNP transistor
175	C334	T8D	3101051040010	0.1uF	987	Q811	B5E	3403008000010	BRT
176	C335	B6B	3101051010030	100pF	988	Q812	B5G	3403008000010	BRT
177	C336	T8A	3101051040010	0.1uF	989	Q813	B5G	3403008000010	BRT
178	C337	T8B	3101051020010	1000pF	990	Q902	T5H	3403002000000	PNP transistor
179	C338	T8B	3101051020010	1000pF	991	Q903	T5H	3403008000010	BRT
180	C339	B7B	3101051010030	100pF	992	Q905	B3A	3499000000150	Compound transistor
181	C34	B8E	3101062200010	22pF	993	Q906	B3B	3414001000020	PNP transistor
182	C340	T4C	3101054710010	470pF	994	Q908	B3B	3403008000010	BRT
183	C341	B7B	3101051010030	100pF	995	Q909	B3B	3403002000010	PNP transistor
184	C342	B7C	3101051010030	100pF	996	Q910	B4B	3414001000020	PNP transistor
185	C343	T7C	3101051010030	100pF	997	Q912	B3A	3403008000010	BRT
186	C344	T8D	3101051010030	100pF	998	Q913	B3A	3403008000010	BRT
187	C345	T8C	3101051010030	100pF	999	Q914	B3B	3403008000010	BRT
188	C346	T8C	3101051010030	100pF	1000	Q915	B3A	3599990000610	N-MOSFET
189	C347	T6D	3101051010030	100pF	1001	Q921	B3E	3404999000020	NPN transistor
190	C348	T6C	3101051010030	100pF	1002	Q922	T3C	3403008000010	BRT
191	C349	T6C	3101051010030	100pF	1003	Q923	T3C	3403008000010	BRT
192	C350	T6C	3101051010030	100pF	1004	R1	T8G	3101051510000	150pF
193	C351	T6C	3101051010030	100pF	1005	R109	T8F	3001051000000	10Ω
194	C352	T6C	3101051010030	100pF	1006	R111	T8F	3001068200000	82Ω
195	C353	T7C	3101051010030	100pF	1007	R1110	T8G	3001053300010	33Ω
196	C354	T6C	3101051010030	100pF	1008	R114	T8F	3001066800000	68Ω
197	C355	B7C	3101051010030	100pF	1009	R117	B7E	3001051040000	100kΩ
198	C356	T7C	3101051040010	0.1uF	1010	R120	B7E	3001056830000	68kΩ
199	C357	T7C	3101051010030	100pF	1011	R122	B8E	3001051800000	18Ω
200	C358	T7D	3101051010030	100pF	1012	R123	B8G	3001055100010	51Ω
201	C359	B7D	3101051010030	100pF	1013	R128	B7E	3001058230000	82kΩ
202	C36	T7E	3101051020010	1000pF	1014	R129	B8E	3001052710000	270Ω
203	C360	B7D	3101051010030	100pF	1015	R130	B8G	3001051210010	120Ω
204	C361	B7D	3101051010030	100pF	1016	R131	B8F	3001053320010	3.3kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
205	C362	T7B	3101058200000	82pF	1017	R132	B8G	3001053320000	3.3kΩ
206	C363	T7B	3101058200000	82pF	1018	R135	B8E	3001052710000	270Ω
207	C364	T7B	3101053900000	39pF	1019	R136	B8G	3001051210010	120Ω
208	C365	T7B	3101058200000	82pF	1020	R137	B7F	3001061510000	150Ω
209	C366	T6D	3101051040010	0.1uF	1021	R138	B8F	3001058220000	8.2kΩ
210	C368	T8A	3101051040010	0.1uF	1022	R139	B7E	3001061210000	120Ω
211	C369	T8A	3101053920000	3900pF	1023	R140	B8E	3001051010040	100Ω
212	C375	T7B	3101052000020	20pF	1024	R141	T8E	3101051510000	150pF
213	C376	T7C	3101052000020	20pF	1025	R142	B8E	3001053320000	3.3kΩ
214	C378	B7B	3101051010030	100pF	1026	R143	B8E	3001058220000	8.2kΩ
215	C379	B7B	3101051040010	0.1uF	1027	R144	B7G	3001061510000	150Ω
216	C38	T8F	3101061020040	1000pF	1028	R145	B8E	3001051010040	100Ω
217	C380	B7B	3101051040010	0.1uF	1029	R146	T8E	3001051010040	100Ω
218	C381	B7C	3101051030020	0.01uF	1030	R147	T7E	3001051010040	100Ω
219	C382	B6C	3101051040010	0.1uF	1031	R148	T8G	3001051010040	100Ω
220	C383	B7C	3101051040010	0.1uF	1032	R151	T7E	3001051530010	15kΩ
221	C384	B6B	3101051030020	0.01uF	1033	R152	T8E	3001054730000	47kΩ
222	C385	B6B	3101051010030	100pF	1034	R153	B8E	3221506601000	Ferrite bead
223	C386	B6C	3101051040010	0.1uF	1035	R155	T7E	3001051830000	18kΩ
224	C387	B7B	3101051040010	0.1uF	1036	R156	T7E	3001053300010	33Ω
225	C388	B7C	3101051040010	0.1uF	1037	R157	B8F	3221506601000	Ferrite bead
226	C389	B7B	3101051040010	0.1uF	1038	R158	B8F	3001053320000	3.3kΩ
227	C390	B7C	3101051010030	100pF	1039	R159	B8F	3001058220000	8.2kΩ
228	C391	T7C	3101051040010	0.1uF	1040	R160	B8G	3001051010040	100Ω
229	C392	B6C	3101051040010	0.1uF	1041	R162	T7E	3001058200000	82Ω
230	C393	B6C	3101051040010	0.1uF	1042	R167	T8G	3001053300010	33Ω
231	C394	B7B	3101051040010	0.1uF	1043	R171	T7F	3001060000000	0Ω
232	C396	T7B	3101061050020	1uF	1044	R174	T8E	3001050000000	0Ω
233	C398	B6B	3101051040010	0.1uF	1045	R175	T8F	3001051000000	10Ω
234	C399	B6B	3101051030020	0.01uF	1046	R176	B7F	3001054720000	4.7kΩ
235	C4	B7G	3101052000020	20pF	1047	R177	T7G	3001051030000	10kΩ
236	C400	B7B	3101051040010	0.1uF	1048	R178	T8G	3001053300010	33Ω
237	C401	T8A	3101071060010	10uF	1049	R179	B8F	3221506601000	Ferrite bead
238	C402	T6C	3101071060010	10uF	1050	R180	T7F	3001051030000	10kΩ
239	C407	T8C	3101051040010	0.1uF	1051	R181	T8F	3001051020000	1kΩ
240	C409	T8C	3101051010030	100pF	1052	R183	T7F	3001051020000	1kΩ
241	C410	T8C	3101051010030	100pF	1053	R186	B8G	3221506601000	Ferrite bead
242	C411	T8C	3101051010030	100pF	1054	R187	T8F	3001061000000	10Ω
243	C412	T8C	3101051010030	100pF	1055	R188	T8F	3001050000000	0Ω
244	C413	T8C	3101051010030	100pF	1056	R190	T8G	3001051010040	100Ω
245	C414	T8C	3101051010030	100pF	1057	R192	B7G	3001061510000	150Ω
246	C415	T8C	3101051010030	100pF	1058	R194	B8H	3001058220000	8.2kΩ
247	C416	T8C	3101051010030	100pF	1059	R195	T8G	3001052030000	20kΩ
248	C417	T8C	3101051010030	100pF	1060	R196	B8G	3001051010040	100Ω
249	C418	T8C	3101051010030	100pF	1061	R197	T8H	3001050000000	0Ω
250	C419	B8D	3101051010030	100pF	1062	R198	T8G	3001053330010	33kΩ
251	C420	B8D	3101051010030	100pF	1063	R199	T8G	3001051540000	150kΩ
252	C421	T2C	3101052210010	220pF	1064	R2	T8E	3001060000000	0Ω
253	C422	T2B	3101051040010	0.1uF	1065	R200	T8G	3001050000000	0Ω
254	C423	T3C	3101052210010	220pF	1066	R202	B6D	3001051030000	10kΩ
255	C424	T2A	3101052210010	220pF	1067	R231	B6C	3001053300010	33Ω
256	C425	T3A	3101052210010	220pF	1068	R232	B6D	3001053300010	33Ω
257	C426	T3B	3101051010030	100pF	1069	R234	B6C	3001051030000	10kΩ
258	C427	T2B	3101051010030	100pF	1070	R235	B6C	3001051030000	10kΩ
259	C428	T2C	3101051010030	100pF	1071	R236	B6D	3001051030000	10kΩ
260	C429	T2B	3101051010030	100pF	1072	R237	B6A	3001055630000	56kΩ
261	C430	T2A	3101051010030	100pF	1073	R239	B6B	3001055620000	5.6kΩ
262	C431	T2A	3101051010030	100pF	1074	R241	B6A	3001055630000	56kΩ
263	C432	T2B	3101052210010	220pF	1075	R242	B6C	3001050000000	0Ω
264	C433	T3B	3101052210010	220pF	1076	R244	B5C	3001052230010	22kΩ
265	C434	T2B	3101052210010	220pF	1077	R246	B5C	3001052230010	22kΩ
266	C435	B8D	3101051010030	100pF	1078	R247	B5B	3001051040000	100kΩ
267	C436	T2C	3101052210010	220pF	1079	R248	B5B	3001051040000	100kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
268	C437	T2B	3101052210010	220pF	1080	R250	B5B	3001051530010	15kΩ
269	C438	B8C	3101054740020	0.47uF	1081	R251	B5B	3001051010040	100Ω
270	C439	B8C	3101054740020	0.47uF	1082	R252	B5C	3001051040000	100kΩ
271	C440	B8D	3101051010030	100pF	1083	R255	B5D	3001064710000	470Ω
272	C441	T8C	3101051010030	100pF	1084	R257	B5C	3001053030000	30kΩ
273	C442	B8B	3101051010030	100pF	1085	R258	B5C	3001051030000	10kΩ
274	C443	B8B	3101051010030	100pF	1086	R259	B5C	3001051030000	10kΩ
275	C444	B8A	3101051010030	100pF	1087	R260	B5C	3001051010040	100Ω
276	C445	B8B	3101051010030	100pF	1088	R261	B5D	3001051030000	10kΩ
277	C446	B8A	3101051010030	100pF	1089	R262	B5B	3001051040000	100kΩ
278	C447	B8B	3101051010030	100pF	1090	R263	B5B	3001053030000	30kΩ
279	C448	B8B	3101051010030	100pF	1091	R264	B5D	3001051020000	1kΩ
280	C449	B8A	3101051010030	100pF	1092	R265	B5B	3001051820000	1.8kΩ
281	C450	B8A	3101051010030	100pF	1093	R266	B5B	3001054730000	47kΩ
282	C451	B8A	3101051010030	100pF	1094	R267	B6D	3001051020000	1kΩ
283	C452	B8B	3101051010030	100pF	1095	R268	B5B	3001051040000	100kΩ
284	C453	B8B	3101051010030	100pF	1096	R269	B5B	3001051040000	100kΩ
285	C454	B8B	3101051010030	100pF	1097	R270	B5B	3001054730000	47kΩ
286	C455	B8B	3101051010030	100pF	1098	R271	B4B	3001051010040	100Ω
287	C456	B8B	3101051010030	100pF	1099	R272	B5B	3001054730000	47kΩ
288	C46	B8G	3101051520000	1500pF	1100	R273	B5C	3001052430010	24kΩ
289	C463	B8C	3101051010030	100pF	1101	R274	B5C	3001051040000	100kΩ
290	C465	B8C	3101051010030	100pF	1102	R275	B5C	3001051040000	100kΩ
291	C466	B8C	3101051010030	100pF	1103	R276	B5C	3001051040000	100kΩ
292	C467	B8C	3101051010030	100pF	1104	R277	B5C	3001054730000	47kΩ
293	C468	B8C	3101051010030	100pF	1105	R278	B4C	3001051010040	100Ω
294	C469	B8A	3101051010030	100pF	1106	R279	B6D	3001053030000	30kΩ
295	C471	B2C	3101051040010	0.1uF	1107	R280	B6C	3001051020000	1kΩ
296	C473	T8D	3101051040010	0.1uF	1108	R282	T6A	3001060000000	0Ω
297	C474	T3C	3101053920000	3900pF	1109	R283	B6D	3001053030000	30kΩ
298	C476	T3C	3101053920000	3900pF	1110	R284	B6D	3001051530010	15kΩ
299	C477	T8C	3101051010030	100pF	1111	R285	B6D	3001051530010	15kΩ
300	C478	T8C	3101051010030	100pF	1112	R286	B6B	3001054730000	47kΩ
301	C479	T8C	3101051010030	100pF	1113	R287	B6B	3001055620000	5.6kΩ
302	C480	T8C	3101051010030	100pF	1114	R288	B6A	3001054730000	47kΩ
303	C483	T2C	3101062250000	2.2uF	1115	R289	B6A	3001050000000	0Ω
304	C484	B2B	3101051040010	0.1uF	1116	R291	B6B	3001051220000	1.2kΩ
305	C49	B7G	3101061000000	10pF	1117	R292	B6B	3001053300010	33Ω
306	C5	B8G	3101052400010	24pF	1118	R293	B5D	3001053320000	3.3kΩ
307	C50	T8G	3101051520000	1500pF	1119	R295	B6A	3001051020000	1kΩ
308	C500	B7D	3101053300000	33pF	1120	R296	B6B	3001051040000	100kΩ
309	C501	B7C	3101053310030	330pF	1121	R297	B6B	3001053320000	3.3kΩ
310	C502	B7C	3101053320010	3300pF	1122	R3	T7F	3001050000000	0Ω
311	C503	B8C	3101051820000	1800pF	1123	R316	T6B	3001051030000	10kΩ
312	C506	B7C	3101051030020	0.01uF	1124	R319	T7B	3001053300010	33Ω
313	C507	B7C	3101051030020	0.01uF	1125	R320	B7B	3001053300010	33Ω
314	C508	B8C	3101071060010	10uF	1126	R322	T6B	3001051030000	10kΩ
315	C509	B8C	3101051040010	0.1uF	1127	R324	T7C	3001053300010	33Ω
316	C510	B7C	3101051010030	100pF	1128	R326	T6B	3001051030000	10kΩ
317	C511	B7B	3101071060010	10uF	1129	R327	B7C	3001053300010	33Ω
318	C512	B8B	3101051040010	0.1uF	1130	R333	B6D	3001053300010	33Ω
319	C513	B8C	3101051020010	1000pF	1131	R337	T8C	3001051010040	100Ω
320	C514	B7C	3101051040010	0.1uF	1132	R338	T7B	3001051010040	100Ω
321	C515	B7C	3101051040010	0.1uF	1133	R339	T8C	3001051010040	100Ω
322	C516	B7C	3101051010030	100pF	1134	R346	B7C	3001051010040	100Ω
323	C517	B7C	3101051010030	100pF	1135	R347	T7C	3001053300010	33Ω
324	C518	B7C	3101051010030	100pF	1136	R348	T8B	3001050000000	0Ω
325	C519	B6C	3101071060010	10uF	1137	R349	T8B	3001053300010	33Ω
326	C52	B8G	3101051520000	1500pF	1138	R350	T8B	3001053300010	33Ω
327	C520	B6D	3101071060010	10uF	1139	R351	T6B	3001051030000	10kΩ
328	C53	B8G	3101051500080	15pF	1140	R352	B6C	3001053300010	33Ω
329	C54	T8G	3101051000020	10pF	1141	R353	T6A	3001051030000	10kΩ
330	C55	T7G	3101060300010	3pF	1142	R354	T7C	3001053300010	33Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
331	C56	T8H	3101051520000	1500pF	1143	R355	B7C	3001053300010	33Ω
332	C58	T8G	3101051030020	0.01uF	1144	R356	B7A	3001050000000	0Ω
333	C59	T8G	3101052000020	20pF	1145	R357	T7C	3001053300010	33Ω
334	C6	B8F	3101051520000	1500pF	1146	R358	B7B	3001051000000	10Ω
335	C60	T8G	3101051520000	1500pF	1147	R360	B7B	3001051000000	10Ω
336	C6042	B8E	3101051040010	0.1uF	1148	R361	B7B	3001051530010	15kΩ
337	C6043	B8G	3101051040010	0.1uF	1149	R362	B7B	3001051530010	15kΩ
338	C6055	B8E	3101053690000	3.6pF	1150	R363	T3A	3001050000000	0Ω
339	C6056	B8F	3101050300000	3pF	1151	R364	T3A	3001050000000	0Ω
340	C6057	B8F	3101053690000	3.6pF	1152	R365	T3C	3001051030000	10kΩ
341	C6062	B8F	3101053300000	33pF	1153	R366	T3C	3001051030000	10kΩ
342	C6065	B8F	3101053300000	33pF	1154	R367	T7D	3001053300010	33Ω
343	C6066	B8E	3101054700010	47pF	1155	R368	T3C	3001051010040	100Ω
344	C6067	B8F	3101054700010	47pF	1156	R369	T7D	3001053300010	33Ω
345	C6068	B8G	3101053300000	33pF	1157	R370	T3C	3001051010040	100Ω
346	C6069	B8G	3101053300000	33pF	1158	R371	T7D	3001053300010	33Ω
347	C6075	B8G	3101052490010	2.4pF	1159	R372	T6D	3001051030000	10kΩ
348	C6076	B8G	3101052790060	2.7pF	1160	R373	T3C	3001053300010	33Ω
349	C6077	B8F	3101052490010	2.4pF	1161	R374	T7B	3001050000000	0Ω
350	C6083	B8G	3101052400010	24pF	1162	R375	T7C	3001050000000	0Ω
351	C6085	B8G	3101052400010	24pF	1163	R376	T6C	3001053300010	33Ω
352	C6089	B8G	3101051040010	0.1uF	1164	R377	T7C	3001051030000	10kΩ
353	C61	T7H	3101051500080	15pF	1165	R378	T7C	3001051020000	1kΩ
354	C6100	T4I	3101061050020	1uF	1166	R379	T7C	3001051030000	10kΩ
355	C6103	T4I	3101052210010	220pF	1167	R380	T7C	3001053300010	33Ω
356	C6106	T4J	3101052210010	220pF	1168	R381	T7C	3001053300010	33Ω
357	C6118	T4J	3101054710010	470pF	1169	R382	T7C	3001051020000	1kΩ
358	C6144	B5I	3101052210010	220pF	1170	R383	B7C	3001051020000	1kΩ
359	C6145	B5I	3101061050020	1uF	1171	R385	B7B	3001051030000	10kΩ
360	C6148	B7H	3101054710010	470pF	1172	R386	B6C	3001051000000	10Ω
361	C6149	B7H	3101061050020	1uF	1173	R387	T7B	3001053300010	33Ω
362	C6151	B8H	3101054710010	470pF	1174	R388	T7C	3001051000000	10Ω
363	C6152	B8I	3101050500010	5pF	1175	R389	T3C	3001053300010	33Ω
364	C6153	B8I	3101050400010	4pF	1176	R390	T7B	3001051030000	10kΩ
365	C6154	B8I	3101050600010	6pF	1177	R391	T8D	3001051030000	10kΩ
366	C6155	B7H	3101051030020	0.01uF	1178	R392	T8D	3001051030000	10kΩ
367	C6157	B8I	3101061010010	100pF	1179	R393	T8D	3001051030000	10kΩ
368	C6158	B8H	3001060000000	0Ω	1180	R394	T7D	3001051030000	10kΩ
369	C6159	B8H	3101052210010	220pF	1181	R395	T7D	3001054720000	4.7kΩ
370	C6160	B8H	3101054700010	47pF	1182	R396	T7D	3001054720000	4.7kΩ
371	C6161	B8I	3101052000020	20pF	1183	R398	T3A	3001054720000	4.7kΩ
372	C6162	B8I	3101051500080	15pF	1184	R399	T6A	3001050000000	0Ω
373	C6163	B8I	3101050700010	7pF	1185	R4	T8E	3001061010000	100Ω
374	C6164	B8I	3101052000020	20pF	1186	R400	T8D	3001051030000	10kΩ
375	C6166	T8I	3101052710000	270pF	1187	R401	B7B	3001051520010	1.5kΩ
376	C6168	T7I	3101051040010	0.1uF	1188	R402	T6D	3001053300010	33Ω
377	C6169	T8I	3101051040010	0.1uF	1189	R403	T6C	3001051010040	100Ω
378	C6170	T8I	3101051800070	18pF	1190	R404	T6C	3001051010040	100Ω
379	C6171	T7I	3101051040010	0.1uF	1191	R405	T8C	3001060000000	0Ω
380	C6172	B8I	3001050000000	0Ω	1192	R406	T6C	3001051010040	100Ω
381	C6173	T8H	3101051040010	0.1uF	1193	R407	T8C	3001053300010	33Ω
382	C6175	T8H	3101051040010	0.1uF	1194	R408	T8C	3001053300010	33Ω
383	C6176	T8H	3001060000000	0Ω	1195	R409	T8C	3001051010040	100Ω
384	C6177	T8I	3101062700010	27pF	1196	R410	T6C	3001051010040	100Ω
385	C6178	T8I	3101051030020	0.01uF	1197	R411	T6C	3001051010040	100Ω
386	C6179	T7H	3101051040010	0.1uF	1198	R412	T8C	3001053300010	33Ω
387	C6180	T8H	3101051040010	0.1uF	1199	R413	T7C	3001053300010	33Ω
388	C6183	T7H	3101050800000	8pF	1200	R414	T8A	3001051000000	10Ω
389	C6190	T8I	3101061050020	1uF	1201	R415	T8C	3001051010040	100Ω
390	C6193	B8H	3101061040010	0.1uF	1202	R416	T3A	3001052030000	20kΩ
391	C6202	B6J	3101051520000	1500pF	1203	R418	T3A	3001051030000	10kΩ
392	C6204	B6J	3101051020010	1000pF	1204	R420	T8C	3001053300010	33Ω
393	C6205	B6J	3101051020010	1000pF	1205	R421	T7C	3001051010040	100Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
394	C6207	B6J	3101051020010	1000pF	1206	R422	T8B	3001051030000	10kΩ
395	C6208	B7J	3101051020010	1000pF	1207	R423	T8C	3001053300010	33Ω
396	C6209	B5J	3101055600000	56pF	1208	R424	T8C	3001053300010	33Ω
397	C6210	B5J	3101050800000	8pF	1209	R425	T8C	3001053300010	33Ω
398	C6211	B6J	3101050600010	6pF	1210	R426	T8A	3001050000000	0Ω
399	C6212	B5J	3101054700010	47pF	1211	R427	T2B	3001051030000	10kΩ
400	C6213	B6J	3101051020010	1000pF	1212	R428	T3B	3001054720000	4.7kΩ
401	C6214	B6J	3001050000000	0Ω	1213	R429	T7C	3001051030000	10kΩ
402	C6215	B6J	3101050900000	9pF	1214	R430	T8C	3001053300010	33Ω
403	C6218	B4J	3101050200010	2pF	1215	R431	T8C	3001053300010	33Ω
404	C6221	B5J	3101050200010	2pF	1216	R432	T8C	3001053300010	33Ω
405	C6222	B6J	3001050000000	0Ω	1217	R433	T8C	3001053300010	33Ω
406	C6223	B6J	3101051000030	10pF	1218	R434	T8D	3001051010040	100Ω
407	C6224	B6J	3101055600000	56pF	1219	R435	T3C	3001054720000	4.7kΩ
408	C6225	B6J	3101051000030	10pF	1220	R436	T2B	3001054720000	4.7kΩ
409	C6226	B6J	3101051000030	10pF	1221	R437	T2A	3001054720000	4.7kΩ
410	C6228	B7J	3101051520000	1500pF	1222	R438	T2A	3001051030000	10kΩ
411	C6230	B5I	3101051500080	15pF	1223	R439	T2A	3001051010040	100Ω
412	C6231	B5J	3101056800000	68pF	1224	R440	T6B	3001050000000	0Ω
413	C6232	B5J	3101056800000	68pF	1225	R441	B7A	3001051030000	10kΩ
414	C6233	B5J	3101056800000	68pF	1226	R442	T6A	3001051030000	10kΩ
415	C6235	B6J	3101056800000	68pF	1227	R443	T2A	3001051030000	10kΩ
416	C6236	B5J	3101056800000	68pF	1228	R445	T2A	3001051010040	100Ω
417	C6237	B6J	3101056800000	68pF	1229	R447	T2A	3001051030000	10kΩ
418	C6238	B6J	3101056800000	68pF	1230	R448	T2B	3001054720000	4.7kΩ
419	C6239	B6J	3101056800000	68pF	1231	R449	B2A	3001064730000	47kΩ
420	C6240	B6J	3101058200000	82pF	1232	R450	B2A	3001071020010	1kΩ
421	C6241	B5J	3101051520000	1500pF	1233	R451	B2B	3001051030000	10kΩ
422	C6242	B6J	3101051520000	1500pF	1234	R452	B3B	3001051030000	10kΩ
423	C6243	B5J	3101051040010	0.1uF	1235	R453	T6B	3001051030000	10kΩ
424	C6244	B7J	3101053900000	39pF	1236	R454	T3A	3001051030000	10kΩ
425	C6245	B7J	3101052000040	20pF	1237	R455	T3A	3001058230000	82kΩ
426	C6246	B7I	3101052000040	20pF	1238	R456	T8C	3001050000000	0Ω
427	C64	T7F	3110071040000	0.1uF	1239	R457	T8C	3001050000000	0Ω
428	C66	T7F	3110071040000	0.1uF	1240	R458	T8C	3001051010040	100Ω
429	C67	T7F	3110071040000	0.1uF	1241	R459	T8D	3001051010040	100Ω
430	C68	T7F	3110071040000	0.1uF	1242	R460	T8D	3001051020000	1kΩ
431	C69	T7F	3110071040000	0.1uF	1243	R461	B3C	3001051030000	10kΩ
432	C7	B8F	3101051040010	0.1uF	1244	R462	B3C	3001051030000	10kΩ
433	C70	T7F	3110071040000	0.1uF	1245	R463	B3C	3001051030000	10kΩ
434	C701	T6H	3101051030020	0.01uF	1246	R464	B2C	3001051030000	10kΩ
435	C702	T6H	3101051030020	0.01uF	1247	R465	B3C	3001051030000	10kΩ
436	C703	T6H	3101060300010	3pF	1248	R466	B2C	3001051030000	10kΩ
437	C704	T6H	3101052210010	220pF	1249	R467	B2C	3001053300010	33Ω
438	C705	T6H	3101051040010	0.1uF	1250	R468	T2B	3001054720000	4.7kΩ
439	C706	T6H	3101054710010	470pF	1251	R469	T2C	3001054720000	4.7kΩ
440	C707	T6H	3101051040010	0.1uF	1252	R470	T2B	3001054720000	4.7kΩ
441	C708	T6H	3101051040010	0.1uF	1253	R471	T2B	3001054720000	4.7kΩ
442	C709	T6I	3101051040010	0.1uF	1254	R472	T2B	3001054720000	4.7kΩ
443	C71	B7F	3101071050240	1uF	1255	R473	B2C	3001053300010	33Ω
444	C710	T6H	3101051020010	1000pF	1256	R474	B2C	3001053300010	33Ω
445	C712	T6H	3101051040010	0.1uF	1257	R476	T2C	3001051030000	10kΩ
446	C713	T6H	3101053330000	0.033uF	1258	R479	T6C	3001053300010	33Ω
447	C714	T6G	3101051000030	10pF	1259	R481	B6B	3001051030000	10kΩ
448	C715	T6H	3101063340010	(RoHS)	1260	R482	B6B	3001051030000	10kΩ
449	C716	T6I	3101061810060	180pF	1261	R483	B6B	3001051030000	10kΩ
450	C717	B6H	3101054710010	470pF	1262	R484	T8C	3001054720000	4.7kΩ
451	C718	B6H	3101051050160	1uF	1263	R485	B8C	3001053300010	33Ω
452	C719	T6G	3101051050000	1uF	1264	R486	B8C	3001053300010	33Ω
453	C72	T7F	3110071040000	0.1uF	1265	R487	T7A	3001053300010	33Ω
454	C720	T6H	3101051040010	0.1uF	1266	R488	T8B	3001054720000	4.7kΩ
455	C721	T6H	3101051010030	100pF	1267	R489	T7A	3001053300010	33Ω
456	C722	T6H	3101051010030	100pF	1268	R490	T7A	3001053300010	33Ω

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
457	C723	B6H	3101056800000	68pF	1269	R491	B8C	3001053300010	33Ω
458	C724	B6H	3101054700010	47pF	1270	R492	T7A	3001053300010	33Ω
459	C725	B6H	3101051030020	0.01uF	1271	R493	T8C	3001054720000	4.7kΩ
460	C726	B6H	3104991060060	10uF	1272	R495	B8C	3001053300010	33Ω
461	C727	B6H	3101054710010	470pF	1273	R496	B3C	3001054720000	4.7kΩ
462	C728	T6H	3101051020010	1000pF	1274	R497	T2A	3001051040010	100kΩ
463	C729	T6H	3101051040010	0.1uF	1275	R498	B8C	3001053300010	33Ω
464	C730	B6H	3101053000010	30pF	1276	R499	B8B	3001054720000	4.7kΩ
465	C731	B6H	3101057590000	7.5P	1277	R5	T7E	3001050000000	0Ω
466	C732	B6H	3101052700000	27pF	1278	R500	B7C	3001051040000	100kΩ
467	C733	T6H	3101051040010	0.1uF	1279	R501	B7C	3001051030000	10kΩ
468	C734	B6H	3101054700010	47pF	1280	R502	B7C	3001051020000	1kΩ
469	C735	T6H	3101051040010	0.1uF	1281	R503	B7C	3001051020000	1kΩ
470	C736	T6H	3101051030020	0.01uF	1282	R504	B7C	3001051020000	1kΩ
471	C737	T5H	3101051040010	0.1uF	1283	R505	B8C	3001050000000	0Ω
472	C738	T6H	3101051010030	100pF	1284	R506	B7C	3001051030000	10kΩ
473	C739	T6H	3101051010030	100pF	1285	R507	B7C	3001050000000	0Ω
474	C74	T7F	3110071040000	0.1uF	1286	R509	B7C	3001051030000	10kΩ
475	C740	T5H	3101051040010	0.1uF	1287	R510	B7C	3001051030000	10kΩ
476	C741	T5H	3101051040010	0.1uF	1288	R511	B8B	3001054720000	4.7kΩ
477	C742	T6H	3101061050020	1uF	1289	R512	B7C	3001051030000	10kΩ
478	C743	T6H	3101054700010	47pF	1290	R513	B7C	3001051040000	100kΩ
479	C744	B5H	3101051040010	0.1uF	1291	R514	B7C	3001051040000	100kΩ
480	C745	B6H	3101053300000	33pF	1292	R515	T7A	3001053300010	33Ω
481	C746	T5I	3101054710010	470pF	1293	R516	T7A	3001053300010	33Ω
482	C747	B5H	3101052200010	22pF	1294	R517	T7B	3001053300010	33Ω
483	C748	B6H	3101061040010	0.1uF	1295	R518	T7A	3001053300010	33Ω
484	C749	T6G	3101053900000	39pF	1296	R519	T7B	3001053300010	33Ω
485	C75	T7F	3101051020010	1000pF	1297	R520	T7B	3001053300010	33Ω
486	C750	B6H	3101071050240	1uF	1298	R521	T7B	3001053300010	33Ω
487	C751	T6G	3101051000030	10pF	1299	R522	T7A	3001053300010	33Ω
488	C752	T5I	3101074750000	4.7uF	1300	R523	B8B	3001053300010	33Ω
489	C754	T5I	3101061050020	1uF	1301	R524	B8B	3001053300010	33Ω
490	C755	T6I	3104991060060	10uF	1302	R525	B8B	3001053300010	33Ω
491	C756	T6I	3101051040010	0.1uF	1303	R526	B8B	3001053300010	33Ω
492	C76	T8F	3101051010030	100pF	1304	R527	B8B	3001053300010	33Ω
493	C763	T5H	3101051010030	100pF	1305	R528	B8C	3001056830000	68kΩ
494	C764	T5H	3101051010030	100pF	1306	R529	B8C	3001053330000	33kΩ
495	C765	T5H	3101051010030	100pF	1307	R530	T8D	3001051030000	10kΩ
496	C766	T6H	3101051010030	100pF	1308	R531	T8D	3001051030000	10kΩ
497	C767	T6H	3101051010030	100pF	1309	R532	T8C	3001051030000	10kΩ
498	C769	T6H	3101051010030	100pF	1310	R533	B8B	3001053300010	33Ω
499	C77	T8F	3101051010030	100pF	1311	R534	B8C	3001051030000	10kΩ
500	C78	T7F	3110071040000	0.1uF	1312	R535	B8C	3001051030000	10kΩ
501	C79	T7E	3101051020010	1000pF	1313	R536	T6B	3001050000000	0Ω
502	C8	T8E	3101051520000	1500pF	1314	R538	T8C	3001051030000	10kΩ
503	C80	T8F	3101051030020	0.01uF	1315	R539	T8C	3001051030000	10kΩ
504	C801	B2F	3101084710010	470pF	1316	R540	T8D	3001051030000	10kΩ
505	C802	B2F	3101064700000	47pF	1317	R541	T8D	3001051030000	10kΩ
506	C803	B2F	3101063320000	3300pF	1318	R542	B3A	3001061020010	1kΩ
507	C804	B2F	3101092260010	22uF	1319	R543	T8C	3001051030000	10kΩ
508	C806	B2G	3101084710010	470pF	1320	R544	B6B	3001050000000	0Ω
509	C807	T5E	3101081060010	10uF	1321	R545	B7D	3001053300010	33Ω
510	C808	B6E	3101061020000	1000pF	1322	R546	B3C	3001061010000	100Ω
511	C809	B5E	3101062210000	220pF	1323	R547	B2B	3001061010000	100Ω
512	C811	B6E	3101074710010	470pF	1324	R548	B2B	3001061010000	100Ω
513	C812	T3G	3101371010000	100pF	1325	R549	B3B	3001061010000	100Ω
514	C814	B6E	3101064700000	47pF	1326	R550	B3C	3001061010000	100Ω
515	C815	T5F	3101061810060	180pF	1327	R551	B2B	3001061010000	100Ω
516	C816	T3H	3101080700010	7pF	1328	R552	B7D	3001053300010	33Ω
517	C817	T2H	3101061020040	1000pF	1329	R553	B7D	3001053300010	33Ω
518	C818	B6E	3101061010010	100pF	1330	R554	T8D	3001051020000	1kΩ
519	C819	T3F	3101376800000	68pF	1331	R555	T8D	3001051030000	10kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
520	C82	T8F	3101051520000	1500pF	1332	R556	T3C	3001051010040	100Ω
521	C820	T3E	3101371010000	100pF	1333	R557	T2B	3001051010040	100Ω
522	C821	T3H	3101080500010	5pF	1334	R558	B3C	3001053330000	33kΩ
523	C822	B6E	3101061520010	1500pF	1335	R559	B2B	3001053330000	33kΩ
524	C825	T3F	3101061010010	100pF	1336	R560	B2B	3001053330000	33kΩ
525	C827	T4I	3101081020010	1000pF	1337	R561	B3B	3001053330000	33kΩ
526	C829	B5E	3101061040010	0.1uF	1338	R562	B3C	3001053330000	33kΩ
527	C83	T8F	3101051040010	0.1uF	1339	R563	T2B	3001051030000	10kΩ
528	C830	T4H	3101372000000	20pF	1340	R564	B7C	3001050000000	0Ω
529	C831	T3G	3101376800000	68pF	1341	R565	B7C	3001050000000	0Ω
530	C833	T3F	3101376800000	68pF	1342	R566	B7C	3001050000000	0Ω
531	C836	T2H	3101081200010	12pF	1343	R567	B7C	3001050000000	0Ω
532	C837	T3H	3101372400000	24pF	1344	R568	B3A	3001060000000	0Ω
533	C838	T4I	3101080400010	4pF	1345	R569	T2C	3001051030000	10kΩ
534	C839	T5F	3101061810060	180pF	1346	R570	T2C	3001064720000	4.7kΩ
535	C84	T7F	3110071040000	0.1uF	1347	R571	T6C	3001051030000	10kΩ
536	C841	T3F	3101376800000	68pF	1348	R572	T3C	3001053330000	33kΩ
537	C843	T5E	3212106829000	8.2nH	1349	R573	T3C	3001054720000	4.7kΩ
538	C845	B5E	3101062210000	220pF	1350	R574	T2C	3001064720000	4.7kΩ
539	C846	T5E	3101071200010	12pF	1351	R575	T2B	3001053330000	33kΩ
540	C847	T2J	3101061510050	150pF	1352	R578	B7D	3001050000000	0Ω
541	C848	T3J	3101064700000	47pF	1353	R6	T7F	3001050000000	0Ω
542	C85	T8E	3101051040010	0.1uF	1354	R6004	T5C	3001063320000	3.3kΩ
543	C850	B2I	3101081020010	1000pF	1355	R6034	B8E	3001051020000	1kΩ
544	C851	T2I	3101081800010	18pF	1356	R6035	B8F	3001051030000	10kΩ
545	C852	T3I	3101061010010	100pF	1357	R6049	B8G	3001051020000	1kΩ
546	C853	T6F	3101061520010	1500pF	1358	R6050	B8G	3001051020000	1kΩ
547	C854	T6F	3101061040010	0.1uF	1359	R6051	B8G	3001051030000	10kΩ
548	C855	T5G	3101071200010	12pF	1360	R6052	B8E	3001051020000	1kΩ
549	C856	T2G	3101371800000	18pF	1361	R6053	B8E	3001051030000	10kΩ
550	C858	T2I	3101060400010	4pF	1362	R6100	T4I	3001055110000	510Ω
551	C86	T8F	3101051040010	0.1uF	1363	R6106	T4J	3001066810000	680Ω
552	C860	T5F	3210106360000	36nH	1364	R6109	T4J	3001063910000	390Ω
553	C861	T3I	3101068210000	820pF	1365	R6113	B5H	3001052740000	270kΩ
554	C862	T3I	3101060200010	2pF	1366	R6114	B5H	3001053300010	33Ω
555	C863	T6E	3001068200000	82Ω	1367	R6115	B5H	3001051040000	100kΩ
556	C864	T6E	3101063900060	39pF	1368	R6116	B5H	3001060000000	0Ω
557	C865	T6E	3210306101000	100nH	1369	R6117	B8H	3001078200000	82Ω
558	C866	T6F	3210306220000	22nH	1370	R6118	B8H	3001053320000	3.3kΩ
559	C867	T6G	3101062200010	22pF	1371	R6119	B8H	3001051220000	1.2kΩ
560	C868	B4H	3101061040010	0.1uF	1372	R6120	T8I	3001055100010	51Ω
561	C87	T7E	3101051040010	0.1uF	1373	R6121	B7H	3001051800000	18Ω
562	C870	T2G	3101378200000	82pF	1374	R6122	B8H	3001051220000	1.2kΩ
563	C872	T6F	3101061100010	11pF	1375	R6124	B7I	3001052710000	270Ω
564	C873	B5E	3101061020000	1000pF	1376	R6125	B7I	3001052710000	270Ω
565	C874	T2G	3101073000010	30pF	1377	R6126	B8H	3001078200000	82Ω
566	C875	B5I	3101051510000	150pF	1378	R6129	B8I	3001063310010	330Ω
567	C877	T6E	3101066830050	0.068uF	1379	R6130	T7I	3001055120030	5.1kΩ
568	C878	T6F	3101062210000	220pF	1380	R6131	T8I	3001051220000	1.2kΩ
569	C88	T7F	3110071040000	0.1uF	1381	R6132	T7I	3001055100010	51Ω
570	C880	T6E	3101061040010	0.1uF	1382	R6133	T8H	3001053310000	330Ω
571	C883	B4I	3101052210010	220pF	1383	R6134	T7H	3001053030000	30kΩ
572	C885	B2G	3101084710010	470pF	1384	R6135	T8H	3001054720000	4.7kΩ
573	C886	B5F	3101064720000	4700pF	1385	R6136	T8H	3001052030000	20kΩ
574	C887	B5F	3101062210000	220pF	1386	R6137	T7I	3001053030000	30kΩ
575	C888	T3F	3101068200030	82pF	1387	R6138	B8I	3001060000000	0Ω
576	C889	B2G	3101061020000	1000pF	1388	R6139	T8H	3001055630000	56kΩ
577	C89	T8F	3101051040010	0.1uF	1389	R6140	T4I	3001060000000	0Ω
578	C890	B3I	3101052210010	220pF	1390	R6201	B6J	3001056810000	680Ω
579	C891	B3J	3101051210000	120pF	1391	R6202	B6J	3001071000000	10Ω
580	C892	B5F	3101062210000	220pF	1392	R6203	B6J	3001052730010	27kΩ
581	C893	T2H	3101081020010	1000pF	1393	R6204	B6J	3001052730010	27kΩ
582	C894	B5H	3101053320010	3300pF	1394	R6205	B6J	3001055620000	5.6kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
583	C895	B4I	3101052210010	220pF	1395	R6207	B5J	3001050000000	0Ω
584	C896	B3G	3101052210010	220pF	1396	R6208	B6J	3001054310000	430Ω
585	C897	B3G	3101052210010	220pF	1397	R6209	B7J	3001054720000	4.7kΩ
586	C898	B6C	3101052210010	220pF	1398	R6211	B6I	3001051220000	1.2kΩ
587	C899	B3J	3101051210000	120pF	1399	R6212	B5J	3001051040000	100kΩ
588	C9	B8E	3101050600010	6pF	1400	R6213	B6J	3001051040000	100kΩ
589	C90	T8F	3101051520000	1500pF	1401	R6214	B5J	3001050000000	0Ω
590	C900	T5C	3101061050020	1uF	1402	R6215	B4J	3001050000000	0Ω
591	C901	T6C	3101061050020	1uF	1403	R701	T6I	3001055100010	51Ω
592	C902	T2E	3101064710000	470pF	1404	R703	T6H	3001052720000	2.7kΩ
593	C905	T3A	3101061050020	1uF	1405	R704	T6H	3001052220010	2.2kΩ
594	C906	T3A	3101061050020	1uF	1406	R705	T6H	3001051030000	10kΩ
595	C907	T4B	3101051040010	0.1uF	1407	R707	B6H	3001052210000	220Ω
596	C908	T5B	3101061050020	1uF	1408	R708	B6H	3001054720000	4.7kΩ
597	C909	B2G	3101062210000	220pF	1409	R709	B6H	3001051030050	10kΩ
598	C91	T7F	3110071040000	0.1uF	1410	R710	B6H	3001058220000	8.2kΩ
599	C910	B5I	3101051020010	1000pF	1411	R711	T6H	3001053300010	33Ω
600	C912	T5C	3101072250100	2.2uF	1412	R712	B6H	3001053310000	330Ω
601	C913	B2G	3101061040110	0.1uF	1413	R713	T5H	3001051040000	100kΩ
602	C914	T5D	3101092260010	22uF	1414	R714	B5H	3001051820000	1.8kΩ
603	C915	T4C	3101082260020	22uF	1415	R715	T6H	3001053300010	33Ω
604	C916	T2E	3101063320000	3300pF	1416	R716	B6H	3001055620000	5.6kΩ
605	C917	T6D	3101071060010	10uF	1417	R717	T6H	3001053300010	33Ω
606	C918	T5D	3101052200010	22pF	1418	R718	B6H	3001055110000	510Ω
607	C919	T6C	3101072260000	22uF	1419	R719	T5H	3001053300010	33Ω
608	C920	T5C	3101061030010	0.01uF	1420	R720	T5H	3001053300010	33Ω
609	C921	T3G	3101376800000	68pF	1421	R721	T5H	3001053300010	33Ω
610	C922	T5C	3101055600000	56pF	1422	R724	T5I	3001060000000	0Ω
611	C923	B4D	3101061050020	1uF	1423	R725	T6H	3001053300010	33Ω
612	C924	B4D	3101061050020	1uF	1424	R727	T5H	3001064730000	47kΩ
613	C925	B5D	3101061050020	1uF	1425	R728	T5H	3001064730000	47kΩ
614	C926	B7D	3101071060010	10uF	1426	R802	B6E	3001061230000	12kΩ
615	C927	T4D	3101061040010	0.1uF	1427	R803	B6E	3001061220000	1.2kΩ
616	C928	T5H	3101081060010	10uF	1428	R804	T5G	3001081000000	10Ω
617	C93	T8F	3101051020010	1000pF	1429	R806	T5G	3001081000000	10Ω
618	C930	B2F	3101061020000	1000pF	1430	R807	T5F	3001081000000	10Ω
619	C931	T2E	3101065610000	560pF	1431	R808	B6E	3001062700000	27Ω
620	C932	T6C	3101062250000	2.2uF	1432	R809	B6E	3001068200000	82Ω
621	C933	B2A	3101092260010	22uF	1433	R810	B6E	3001061010000	100Ω
622	C934	B5D	3101062250000	2.2uF	1434	R811	B6E	3001061830010	18kΩ
623	C935	B5D	3101061040010	0.1uF	1435	R813	T5F	3001081000000	10Ω
624	C936	T2G	3101371000000	10pF	1436	R814	B6E	3001061010000	100Ω
625	C937	T6F	3101062000000	20pF	1437	R815	T2I	3001082730000	27kΩ
626	C938	T5D	3101092260010	22uF	1438	R816	T3J	3001076800000	68Ω
627	C94	T7F	3110071040000	0.1uF	1439	R818	T5F	3001081000000	10Ω
628	C940	B2F	3101061810060	180pF	1440	R819	T3I	3001076800000	68Ω
629	C942	B3A	3101061040010	0.1uF	1441	R821	B2I	3001113300000	33Ω
630	C943	B2F	3101061210020	120pF	1442	R822	B3J	3210306820000	82nH
631	C944	B3B	3101051020010	1000pF	1443	R823	B3J	3001062200000	22Ω
632	C945	B3A	3101054710010	470pF	1444	R824	T6E	3101064710000	470pF
633	C946	T6D	3101061050020	1uF	1445	R825	T3I	3001113300000	33Ω
634	C947	T4B	3101051030020	0.01uF	1446	R826	T6F	3001061000070	10Ω
635	C948	T4B	3101051040010	0.1uF	1447	R827	T6E	3001061010000	100Ω
636	C949	T6F	3101061820000	1800pF	1448	R828	T6F	3001061000070	10Ω
637	C95	T8G	3101051030020	0.01uF	1449	R829	T6F	3001062010000	200Ω
638	C950	T3D	3101051040010	0.1uF	1450	R830	B6E	3001074700000	47Ω
639	C951	T5B	3110992270000	220uF	1451	R831	B5H	3001056820000	6.8kΩ
640	C952	T3C	3101062240030	0.22uF	1452	R833	B2J	3001061210000	120Ω
641	C953	B2G	3101061020000	1000pF	1453	R835	T6E	3001062710000	270Ω
642	C954	B2G	3101062710000	270pF	1454	R837	B5I	3001050000000	0Ω
643	C955	T3D	3101051040010	0.1uF	1455	R838	B5I	3001051530000	15kΩ
644	C956	T3D	3101081060010	10uF	1456	R839	B5H	3001051020000	1kΩ
645	C957	T3D	3101081060010	10uF	1457	R841	B5H	3001053330000	33kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
646	C958	T3D	3101051040010	0.1uF	1458	R842	B5I	3001051230000	12kΩ
647	C959	B2G	3101061010010	100pF	1459	R843	T6F	3001061530010	15kΩ
648	C96	T8F	3101051520000	1500pF	1460	R844	T6F	3001061830010	18kΩ
649	C960	T6F	3101063000010	30pF	1461	R845	T6E	3001061330000	13kΩ
650	C962	B7D	3101051050160	1uF	1462	R846	T6E	3001061520000	1.5kΩ
651	C963	B7D	3101061040010	0.1uF	1463	R847	B5H	3001054730000	47kΩ
652	C965	B8D	3101062250000	2.2uF	1464	R849	B5I	3001052220010	2.2kΩ
653	C966	T5B	3101061050020	1uF	1465	R851	B2J	3101061500010	15pF
654	C967	T6D	3101061010010	100pF	1466	R853	B3J	3001064710000	470Ω
655	C968	B3B	3101051040010	0.1uF	1467	R854	B4I	3001058220000	8.2kΩ
656	C969	B3B	3101051040010	0.1uF	1468	R855	B5F	3001081010000	100Ω
657	C97	T8F	3101051030020	0.01uF	1469	R856	B5F	3001081010000	100Ω
658	C970	B2G	3101063910000	390pF	1470	R857	B5I	3001050000000	0Ω
659	C971	T3F	3101061010010	100pF	1471	R858	B5F	3001069120000	9.1kΩ
660	C972	T3F	3101061210020	120pF	1472	R859	B5F	3001061020010	1kΩ
661	C973	T3F	3101061510050	150pF	1473	R861	T5F	3001081000000	10Ω
662	C974	T3F	3101062210000	220pF	1474	R862	B6E	3001075100000	51Ω
663	C975	B2G	3101063310010	330pF	1475	R863	B3I	3001050000000	0Ω
664	C976	B2G	3101062210000	220pF	1476	R864	T6F	3001072210000	220Ω
665	C977	B2G	3101061810060	180pF	1477	R865	B4H	3001053930000	39kΩ
666	C978	T7D	3101051040010	0.1uF	1478	R866	B4I	3001052220010	2.2kΩ
667	C979	B2G	3101061510050	150pF	1479	R867	B5G	3001058220000	8.2kΩ
668	C98	T8F	3101051040010	0.1uF	1480	R869	B4H	3001051020000	1kΩ
669	C980	T3D	3101081060010	10uF	1481	R870	B5H	3001051530000	15kΩ
670	C981	T4D	3101081060010	10uF	1482	R872	B4H	3001051840000	180kΩ
671	C982	B2G	3101062210000	220pF	1483	R874	B5I	3001051020000	1kΩ
672	C983	B2G	3101061020000	1000pF	1484	R875	B5I	3001053330000	33kΩ
673	C984	B2G	3101065610000	560pF	1485	R876	B3G	3001053930000	39kΩ
674	C985	B2G	3101062210000	220pF	1486	R877	B5E	3001054730000	47kΩ
675	C986	B2G	3101064700000	47pF	1487	R878	B2G	3001081000000	10Ω
676	C987	T5G	3210306180000	叠片电感	1488	R880	B5E	3001074720010	4.7kΩ
677	C988	T5F	3210306180000	叠片电感	1489	R881	B5E	3001074720010	4.7kΩ
678	C99	T8F	3101052710000	270pF	1490	R882	B4I	3001051840010	180kΩ
679	C990	T5E	3101061520010	1500pF	1491	R883	B3G	3001055630000	56kΩ
680	C991	T5E	3101061040010	0.1uF	1492	R884	B3G	3001051330000	13kΩ
681	C992	T5E	3101061010010	100pF	1493	R885	B3G	3001051030000	10kΩ
682	C994	B3G	3101058200000	82pF	1494	R886	B3G	3001052240000	220kΩ
683	C996	B3G	3101061040010	0.1uF	1495	R887	B4I	3001058210000	820Ω
684	C997	T7C	3101051040010	0.1uF	1496	R889	B6C	3001050000000	0Ω
685	C998	T7D	3101062240000	0.22uF	1497	R890	B4H	3001053320000	3.3kΩ
686	C999	T7D	3101051040010	0.1uF	1498	R891	B3G	3001050000000	0Ω
687	D100	T8F	3303030800020	Switching diode	1499	R892	B3I	3001058230000	82kΩ
688	D101	B7E	3304010100220	Varactor	1500	R894	B4I	3001050000000	0Ω
689	D102	B7E	3304010100220	Varactor	1501	R895	B4H	3001054730000	47kΩ
690	D105	B7F	3304010100220	Varactor	1502	R896	T6G	3001058230000	82kΩ
691	D106	B7F	3304010100220	Varactor	1503	R897	B5E	3001068200000	82Ω
692	D107	B7G	3304010100220	Varactor	1504	R898	B6E	3001068200000	82Ω
693	D108	B7G	3304010100220	Varactor	1505	R899	B6E	3001068200000	82Ω
694	D109	B7G	3304010100220	Varactor	1506	R900	T6F	3001061000070	10Ω
695	D110	B7G	3304010100220	Varactor	1507	R902	B3G	3001054740010	470kΩ
696	D111	B7E	3304010100220	Varactor	1508	R903	B3G	3001054740010	470kΩ
697	D112	B7E	3304010100220	Varactor	1509	R904	B3G	3001054740010	470kΩ
698	D113	B7F	3304010100220	Varactor	1510	R905	B3G	3001054740010	470kΩ
699	D116	B7E	3304010100220	Varactor	1511	R906	T5H	3001064730000	47kΩ
700	D117	B7E	3304010100220	Varactor	1512	R907	B3G	3001050000000	0Ω
701	D121	B7G	3304010100220	Varactor	1513	R908	T5H	3001054720000	4.7kΩ
702	D122	B7G	3304010100220	Varactor	1514	R910	T6D	3001054720000	4.7kΩ
703	D125	B7G	3304010100220	Varactor	1515	R911	T5C	3001061030010	10kΩ
704	D126	B7G	3304010100220	Varactor	1516	R913	T6D	3001054720000	4.7kΩ
705	D127	T7E	3303030100010	Switching diode	1517	R914	B6C	3001053330000	33kΩ
706	D128	B4I	3303030100010	Switching diode	1518	R917	T5D	3001053340010	330kΩ
707	D230	B5C	3310240000000	ESD protection diode	1519	R919	T5D	3001051540000	150kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
708	D231	B5C	3310240000000	ESD protection diode	1520	R921	B3G	3001051830010	18kΩ
709	D232	B8D	3310240000000	ESD protection diode	1521	R924	B4D	3001061020010	1kΩ
710	D233	T2B	3310240000000	ESD protection diode	1522	R925	T6D	3001064720000	4.7kΩ
711	D234	T6C	3310240200000	ESD protection diode	1523	R929	B3A	3001051010040	100Ω
712	D236	T6C	3310240200000	ESD protection diode	1524	R930	B3A	3001051030000	10kΩ
713	D237	T5B	3310990000090	ESD protection diode	1525	R931	B3A	3001054730000	47kΩ
714	D238	T2C	3310240000000	ESD protection diode	1526	R932	T7C	3001064720000	4.7kΩ
715	D239	T5B	3310240200000	ESD protection diode	1527	R933	B3A	3001052030000	20kΩ
716	D240	T2A	3310240000000	ESD protection diode	1528	R934	B3A	3001055130010	51kΩ
717	D402	T3C	3310240000000	ESD protection diode	1529	R935	B3A	3001052430010	24kΩ
718	D403	T2A	3310240000000	ESD protection diode	1530	R936	B3A	3001052430010	24kΩ
719	D404	T2B	3310240000000	ESD protection diode	1531	R937	B3B	3001054720000	4.7kΩ
720	D405	T2B	3310240000000	ESD protection diode	1532	R938	B3B	3001051030000	10kΩ
721	D406	T2B	3310240000000	ESD protection diode	1533	R939	T7C	3001060000000	0Ω
722	D407	T8B	3399040600010	ESD protection diode	1534	R940	B3B	3001052230010	22kΩ
723	D408	B8C	3399040600010	(RoHS)	1535	R941	B3B	3001051010040	100Ω
724	D409	T3C	3310240000040	ESD protection diode	1536	R942	B3B	3001054720000	4.7kΩ
725	D410	B2B	3310240000040	ESD protection diode	1537	R943	B3A	3001064730000	47kΩ
726	D450	T2C	3699037000010	USB protection IC	1538	R944	B3B	3001052230010	22kΩ
727	D6009	B8E	3303030800020	Switching diode	1539	R945	B3B	3001051030000	10kΩ
728	D6010	B8F	3303030800020	Switching diode	1540	R946	B3A	3001071020010	2kΩ
729	D6014	B8G	3303030800020	Switching diode	1541	R947	B3B	3001051010040	100Ω
730	D6015	B8F	3303030800020	Switching diode	1542	R948	B3A	3001051010040	100Ω
731	D6100	T4J	3399030000010	PIN diode	1543	R949	B3A	3001054730000	47kΩ
732	D6106	B8J	3699019000000	Mixer IC	1544	R950	T3C	3001051030000	10kΩ
733	D6201	B5J	3304010100390	Varactor	1545	R953	B3D	3001061000000	10Ω
734	D6202	B6J	3304010100390	Varactor	1546	R954	B7D	3001061020010	1kΩ
735	D6203	B5I	3311990000410	Schottky diode	1547	R955	B2A	3001052030000	20kΩ
736	D701	B6G	3304010100220	Varactor	1548	R956	B3A	3001051840000	180kΩ
737	D702	B6H	3304010100180	Varactor	1549	R957	B3A	3001051020000	1kΩ
738	D801	T2H	3303990000020	Switching diode	1550	R958	B3D	3001066810000	680Ω
739	D802	T3I	3303990000020	Switching diode	1551	R959	B2A	3001056830000	68kΩ
740	D803	B3J	3303030300000	Schottky barrier diode	1552	R961	B3D	3001083310010	330Ω
741	D804	B3I	3303030300000	Schottky barrier diode	1553	R962	T3C	3001060000000	0Ω
742	D805	B4H	3302030500030	Zener diode	1554	R963	T3C	3001061230000	12kΩ
743	D806	B6C	3303030800020	Switching diode	1555	R964	T3C	3001052220010	2.2kΩ
744	D900	T2D	3399100000010	TVS diode	1556	R965	T3C	3001060000000	0Ω
745	D902	T5C	3301100300030	Rectifier diode	1557	R966	B3D	3001161510010	150Ω
746	D906	B3A	3303030100010	Switching diode	1558	R967	T7D	3001050000000	0Ω
747	D908	T3A	3303240000000	Switching diode	1559	R968	T3C	3001052220010	2.2kΩ
748	D910	B3A	3302030500010	Zener diode	1560	R969	T3C	3001064730000	47kΩ
749	D911	B2A	3302030500010	Zener diode	1561	R970	T3C	3001061020010	1kΩ
750	D914	B3A	3303240000000	Switching diode	1562	R971	T3C	3099052741000	2.74kΩ
751	D915	T3C	3303010500290	Switching diode	1563	R972	T3C	3001062220000	2.2kΩ

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
752	D916	T3A	3303010500090	Switching diode	1564	R974	B3A	3001062720000	2.7kΩ
753	D917	T3C	3302030500030	Zener diode	1565	R975	B3A	3001052030000	20kΩ
754	D918	T3C	3302030500030	Zener diode	1566	R976	B3A	3001051030000	10kΩ
755	D919	T3A	3303010500090	Switching diode	1567	R978	B3A	3001062720000	2.7kΩ
756	D920	B3A	3303240000000	Switching diode	1568	R982	T3C	3001051040000	100kΩ
757	D921	T3A	3302030500030	Zener diode	1569	R983	T7D	3001050000000	0Ω
758	D922	T7C	3303010500090	Switching diode	1570	R984	B3A	3001052210000	220Ω
759	F900	B3B	4002000000340	Recoverable fuse	1571	R985	T7C	3001050000000	0Ω
760	J400	T8C	5201020200030	Board-to-board connector	1572	R986	T7D	3001050000000	0Ω
761	J404	B9C	5206040200010	FFC connector	1573	R987	T7C	3001051040000	100kΩ
762	L1	B7F	3213212332000	3.3uH	1574	RN230	B6C	3005051010010	100Ω
763	L103	B8E	3217107102000	1uH	1575	RN500	B7B	3005051010010	100Ω
764	L105	B7E	3211256000000	56nH	1576	RT804	B4G	3003061040000	100kΩ
765	L106	B7E	3214307181000	180nH	1577	S1	/	6202720000010	PA heat sink pad
766	L107	B8E	3217607681000	680nH	1578	T6100	B7J	3259999999080	Transformer
767	L108	B7E	3217607681000	680nH	1579	T6101	B8J	3259999999080	Transformer
768	L110	B8F	3217107102000	1uH	1580	U100	T8F	3604019000000	PLL IC
769	L112	B7F	3217607681000	680nH	1581	U101	T7F	3616059000000	Switching IC
770	L114	B7F	3211256000000	56nH	1582	U102	T7E	3616059000000	Switching IC
771	L115	B7F	3217107121000	120nH	1583	U201	B5B	3602017000030	Audio amplifier IC
772	L116	B8E	3217607681000	680nH	1584	U231	B6C	3613010000000	Baseband processor IC
773	L117	B8G	3217607681000	680nH	1585	U232	T6B	3612024000020	Memory
774	L118	B8G	3217607681000	680nH	1586	U233	T7A	3612016000000	Memory
775	L121	B8F	3217107102000	1uH	1587	U235	B5C	3605010000020	Operational amplifier
776	L124	B7G	3237110220000	Air-core coil 22nH	1588	U236	B5C	3605010000020	Operational amplifier
777	L126	B7G	3214307151000	150nH	1589	U237	B6B	3616010000000	Switching IC
778	L127	B8G	3217607681000	680nH	1590	U238	B6B	3605008005070	Operational amplifier
779	L129	B7G	3217607681000	680nH	1591	U302	T6B	3610010000010	MCU
780	L131	T7E	3221506601000	Ferrite bead	1592	U326	T3B	3625999000060	GPS module
781	L132	T7E	3210406331000	330nH	1593	U327	T6D	3607010000400	Logic IC
782	L133	B7G	3217607681000	680nH	1594	U328	B2C	3607010000400	Logic IC
783	L134	B8G	3217107102000	1uH	1595	U401	B3B	3616010000150	Switching IC
784	L135	T8E	3210306151000	150nH	1596	U500	B7C	3606010000010	D/A conversion IC
785	L136	T7E	3210306470000	47nH	1597	U6000	B5H	3605002057090	Operational amplifier
786	L137	B7G	3237110270000	Air-core coil 27nH	1598	U6001	T7D	3626999000020	Reset IC
787	L139	B7G	3217107121000	120nH	1599	U701	T6H	3603999000000	IF IC
788	L140	B8G	3217607681000	680nH	1600	U702	T5I	3608006000000	Power management IC
789	L147	T7B	3210406471000	470nH	1601	U703	T5I	3608015000060	Power management IC
790	L151	T7B	3210406471000	470nH	1602	U801	B5H	3605026000020	Operational amplifier
791	L152	B7F	3221506601000	Ferrite bead	1603	U802	B4H	3605002054590	Operational amplifier
792	L154	T8F	3213306561000	0.56uH	1604	U804	B3G	3605008005070	Operational amplifier
793	L156	T7F	3213212332000	3.3uH	1605	U900	T5C	3608015000180	Power management IC
794	L162	T8G	3210406331000	330nH	1606	U901	T3A	3608015000180	Power management IC
795	L167	B8G	3210306101000	100nH	1607	U902	T5C	3608010000350	Power management IC
796	L168	B8E	3210306101000	100nH	1608	U903	T5B	3608015000170	Power management IC
797	L169	T8G	3210306820000	82nH	1609	U905	B4D	3608015000060	Power management IC
798	L171	T7H	3210306330000	33nH	1610	U909	B5D	3608015000180	Power

No.	Ref No.	Print No.	Part No.	Description	No.	Ref No.	Print No.	Part No.	Description
									management IC
799	L173	T7H	3210306390000	39nH	1611	U910	T7D	3626015000010	Reset IC
800	L2	T7E	3210306470000	47nH	1612	U914	T3C	3605008005070	Operational amplifier
801	L232	B4C	3221506300000	Ferrite bead	1613	U915	B7D	3608015000060	Power management IC
802	L233	B5C	3211506101000	Ferrite bead	1614	U917	B3A	3609006003050	Reset IC
803	L234	B5D	3211506101000	Ferrite bead	1615	U918	B7D	3608015000210	Power management IC
804	L235	B5D	3211506101000	Ferrite bead	1616	U919	T6D	3608010006230	Power management IC
805	L321	T3A	3212106390000	39nH	1617	W321	T3A	4411100002000	IPX RF connector
806	L322	T3A	3221506300000	Ferrite bead	1618	X100	T8E	3701019250030	TCXO
807	L4	B8F	3217607681000	680nH	1619	X302	T8B	3701019250040	TCXO
808	L401	B8A	3221506300000	Ferrite bead	1620	X375	T8B	3701327610060	Crystal
809	L402	B8A	3221506300000	Ferrite bead	1621	Z6100	T8I	3802448540040	Crystal filter
810	L403	B8A	3221506300000	Ferrite bead	1622	/	/	9830000000001	Voice encoding/decoding software
811	L404	B8A	3221506300000	Ferrite bead	1623	/	/	41MD7801001F0	PCB main board
812	L405	B8A	3221506300000	Ferrite bead	/	/	/	/	/

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