

Hytera

SERVICE MANUAL

DIGITAL COVERT RADIO



Preface

This manual describes information related with product repair. To repair the product properly, please read this manual carefully.

This manual is applicable to the following model:

X1e

Copyright Information

Hytera is the trademark or registered trademark of Hytera Communications Co., Ltd. (the Company) in PRC and/or other countries or areas. The Company retains the ownership of its trademarks and product names. All other trademarks and/or product names that may be used in this manual are properties of their respective owners.

The product described in this manual may include the Company's computer programs stored in memory or other media. Laws in PRC and/or other countries or areas protect the exclusive rights of the Company with respect to its computer programs. The purchase of this product shall not be deemed to grant, either directly or by implication, any rights to the purchaser regarding the Company's computer programs. Any of the Company's computer programs may not be copied, modified, distributed, decompiled, or reverse-engineered in any manner without the prior written consent of the Company.

Disclaimer

The Company endeavors to achieve the accuracy and completeness of this manual, but no warranty of accuracy or reliability is given. All the specifications and designs are subject to change without notice due to continuous technology development. No part of this manual may be copied, modified, translated, or distributed in any manner without the express written permission of us.

We do not guarantee, for any particular purpose, the accuracy, validity, timeliness, legitimacy or completeness of the Third Party products and contents involved in this manual.

If you have any suggestions or would like to learn more details, please visit our website at:

<http://www.hytera.com>.

Contents

Documentation Information.....	1
1. Introduction	2
2. Product Controls	3
3. Circuit Description	4
3.1 Baseband Section.....	4
3.2 RF Section	15
3.3 GPS Circuit	18
4. Tuning Description.....	20
4.1 Required Test Instruments.....	20
4.2 Tuning Procedures.....	20
5. Interface Definition.....	25
5.1 J602: 50-Pin Interface.....	25
5.2 J301: Option Board Interface	26
5.3 13-Pin Accessory Interface	27
5.4 Definition of Accessory Identifiers	28
6. Troubleshooting Flow Chart.....	29
6.1 Control Circuit	29
6.2 Receiver Circuit.....	30
6.3 Transmitter Circuit.....	32
6.4 FGU	34
6.5 GPS Circuit	36
7. Parts List.....	38
7.1 Main Board	38
7.2 FPC for 50-Pin Interface	109
7.3 FPC for PTT.....	110
7.4 PCB for PTT	110
7.5 FPC for Accessory	110
7.6 PCB for Accessory	111
8. Disassembly and Assembly	112
9. Exploded View	115
10. Packing Guide	119
11. PCB View.....	120
11.1 VHF Main Board	120
11.2 UHF1&UHF3 Main Board	122
11.3 50PIN FPC.....	124
12. Block Diagram	126
12.1 VHF.....	126

12.2 UHF1	129
12.3 UHF3	132
13. Schematic Diagram	135
13.1 VHF.....	135
13.2 UHF1	149
13.3 UHF3	164
14. Specifications	179
15. Appendix	181
15.1 Table of Blind Spots.....	181

Figures

Figure 3-1 Diagram of Power Control	4
Figure 3-2 Diagram of Radio On/Off Control	5
Figure 3-3 Diagram of OMAP5912	6
Figure 3-4 Diagram of Overall Scheme	7
Figure 3-5 Diagram of External Memory.....	7
Figure 3-6 Diagram of Baseband Clock.....	8
Figure 3-7 Diagram of Reset Signal	9
Figure 3-8 Diagram of SPI Connection.....	9
Figure 3-9 Diagram of MCBSP Connection	10
Figure 3-10 Diagram of USB Interface	10
Figure 3-11 Diagram of UART Interface Connection	11
Figure 3-12 Diagram of I2C Connection	11
Figure 3-13 Diagram of MICROWIRE Interface Connection	12
Figure 3-14 Diagram of MCSI1 Connection.....	12
Figure 3-15 Diagram of Audio Diagram	13
Figure 3-16 Diagram of Audio Signal Flow	14
Figure 3-17 Diagram of Transmitter Circuit.....	15
Figure 3-18 Diagram of Receiver Circuit	16
Figure 3-19 Diagram of IF Processor	17
Figure 3-20 Diagram of Frequency Generation Unit (FGU).....	17
Figure 3-21 Diagram of GPS Circuit.....	18

Documentation Information

This section describes the conventions and revision history of this document.

Documentation Conventions

Instructional Icons

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.

Notational Conventions

Item	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

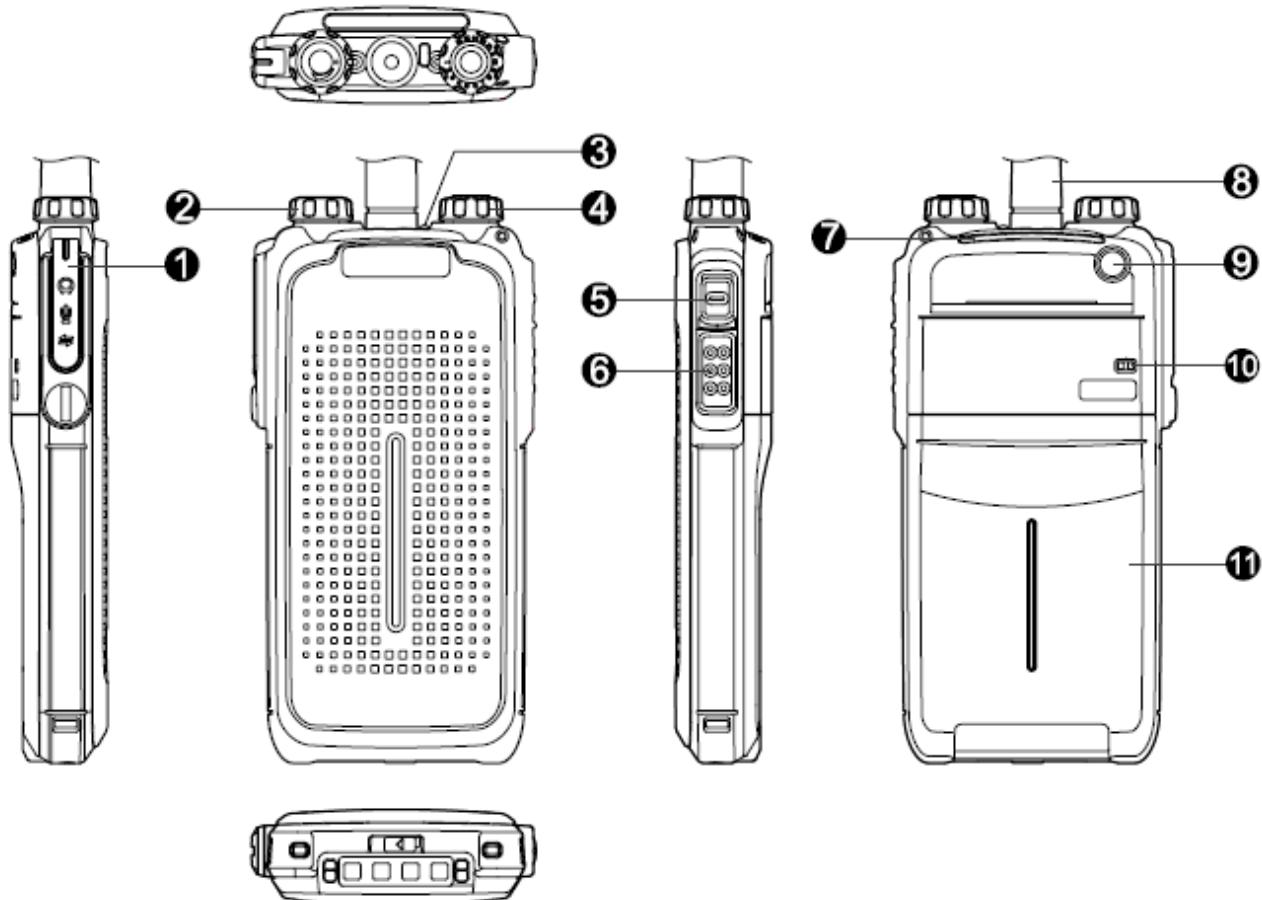
Version	Release Date	Description
R4.5	05-2012	Initial Release

1. Introduction

Intended User

This manual is intended for use by qualified technicians only.

2. Product Controls



No.	Part Name	No.	Part Name
1	Accessory Jack	7	Speaker
2	Radio On-Off/Volume Control Knob	8	Antenna
3	LED Indicator	9	TK (Top Key)
4	Channel Selector Knob	10	Microphone
5	SK (Side Key)	11	Battery
6	PTT Key	/	/

3. Circuit Description

3.1 Baseband Section

3.1.1 Power Section

Diagram of Power Control

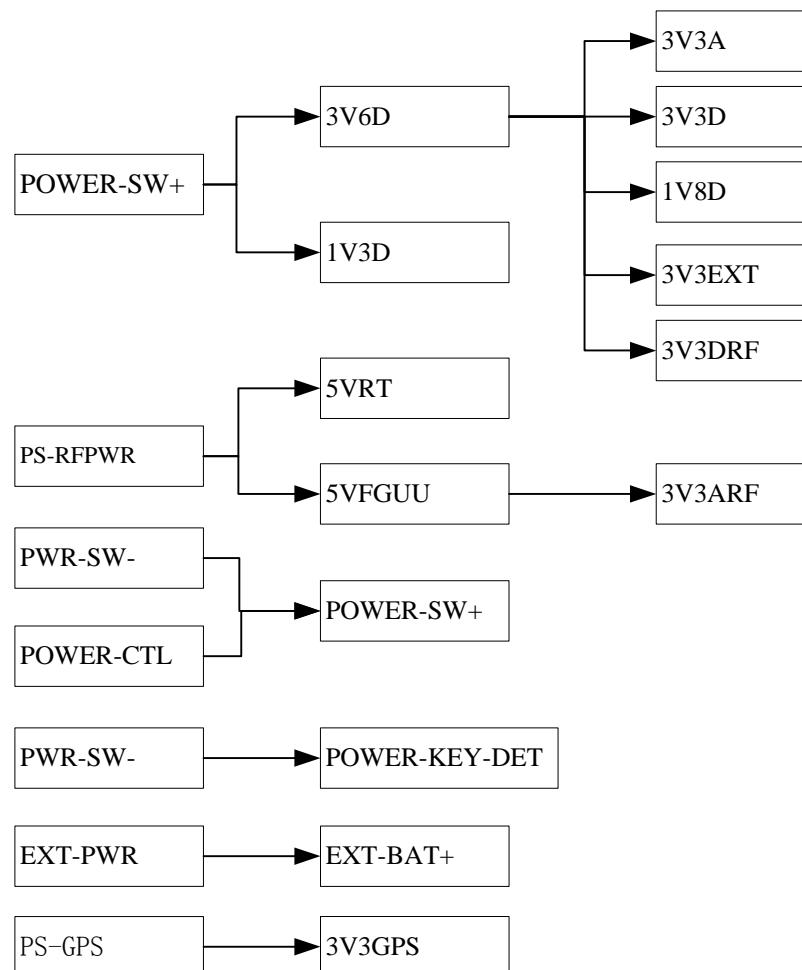


Figure 3-1 Diagram of Power Control

Power On/Off

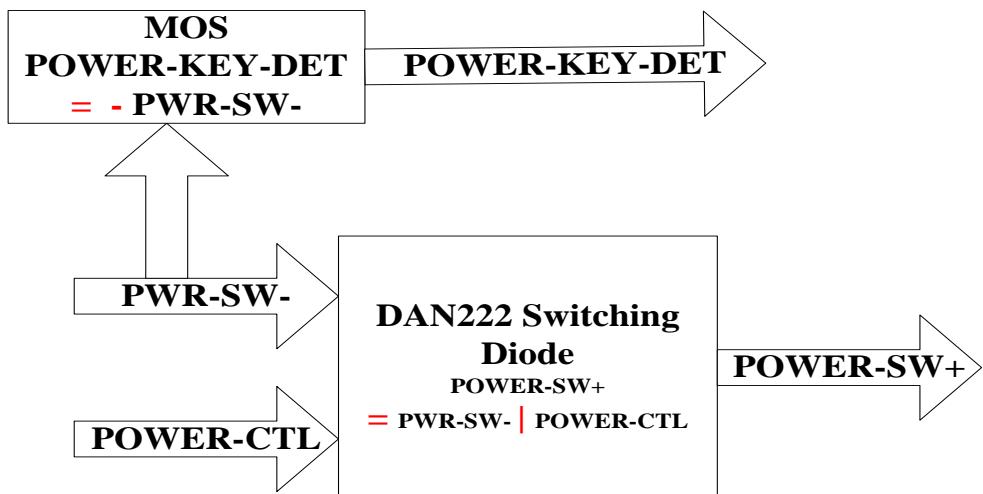


Figure 3-2 Diagram of Radio On/Off Control

The radio-on signal (POWER-SW+) satisfies the equation: $\text{POWER-SW+} = \text{PWR-SW-} \mid \text{POWER-CTL}$.

- When the Volume Switch is on, PWR-SW- and POWER-SW+ are at high level, and the radio powers up.
After power-on, POWER-CTL goes to high level, and POWER-KEY-DET goes to low level.
- During power-off, POWER-SW+ is at low level, while POWER-KEY-DET is at high level. The system implements the power-off procedure upon detecting power-off procedure via POWER-KEY-DET.
Then POWER-KEY-DET and POWER-SW+ go to low level, and the power is cut off.

Power Protection

Power protection includes over-current, reverse-voltage and ESD protection.

Power Consumption Control

OMAP can control and configure the power supply and working mode of the peripheral modules (RF section and baseband section) via the I/O interface and serial bus, so as to reduce power consumption.

3.1.2 Control Section

OMAP5912 Dual-core Processor

The radio uses the dual-core processor OMAP5912, which is mainly composed of ARM926EJ-S and TMS320C55xx. ARM926EJ-S is the main controller, while TMS320C55xx is used for modulation/demodulation and voice encoding/decoding.

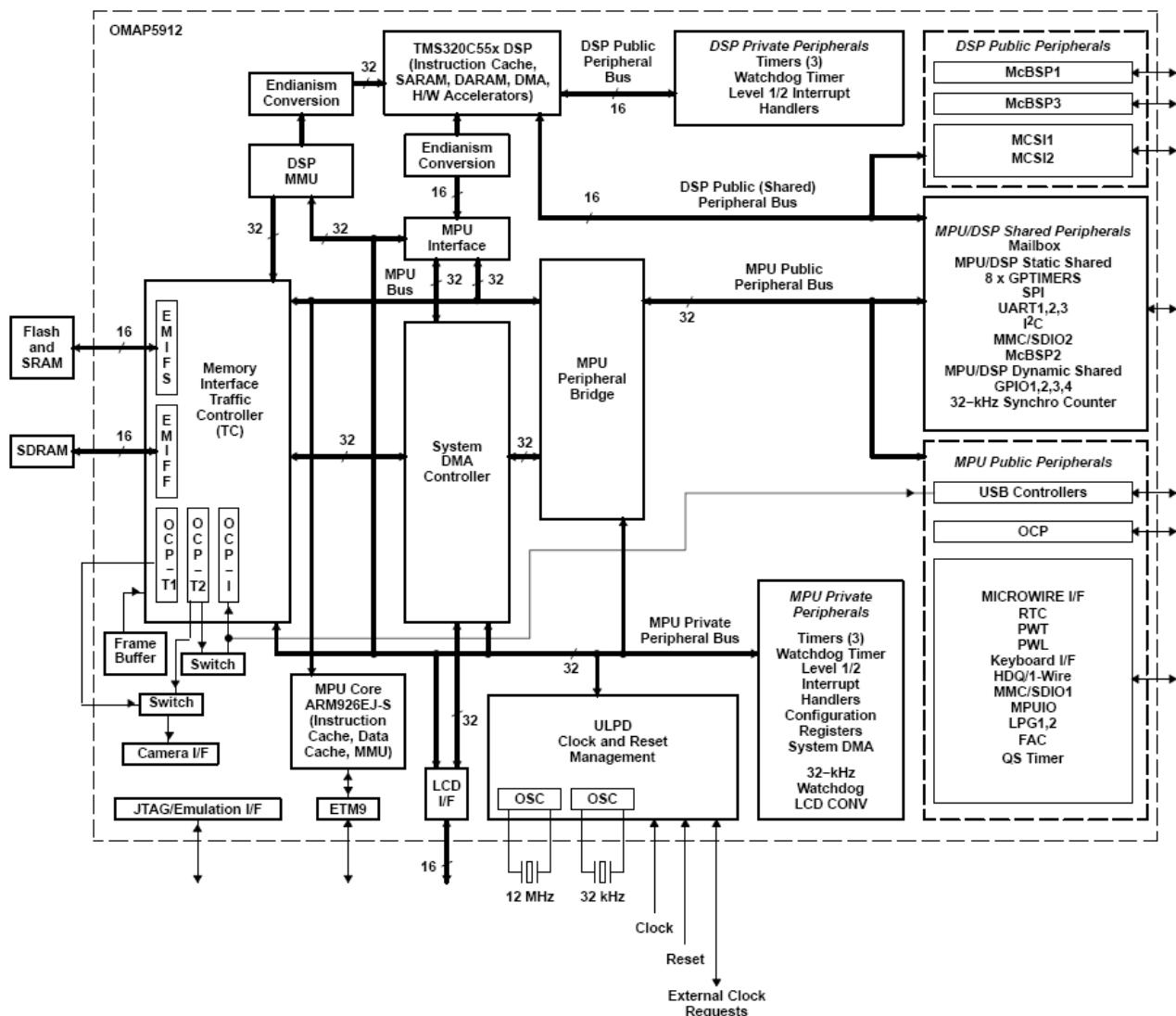


Figure 3-3 Diagram of OMAP5912

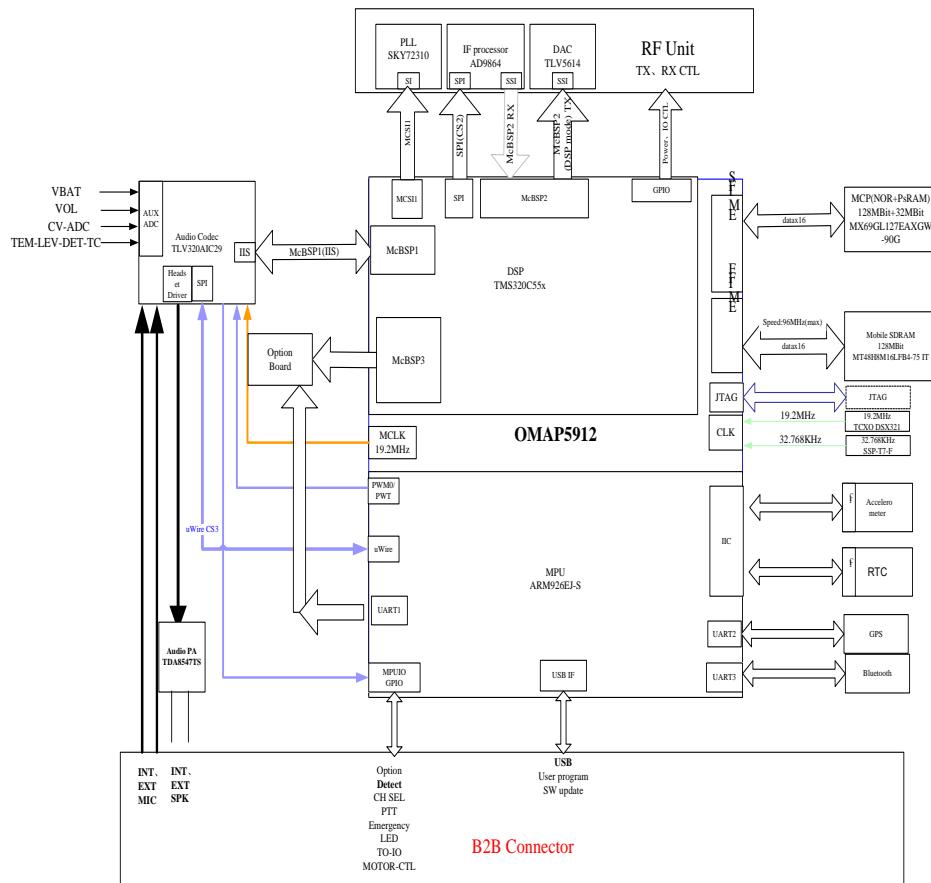


Figure 3-4 Diagram of Overall Scheme

External Memory

OMAP5912 provides two types of external memory interfaces: external memory interface slow (EMIFS) and external memory interface fast (EMIFF).

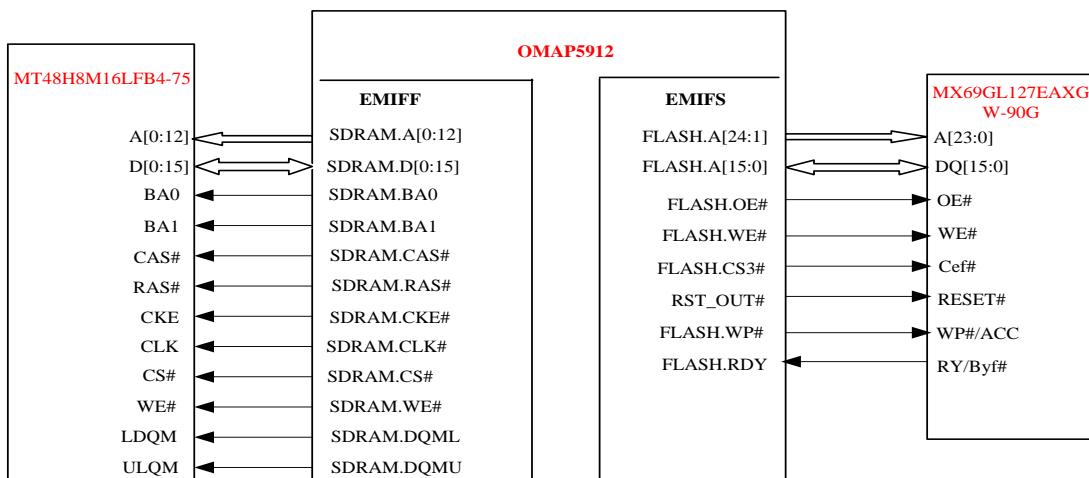


Figure 3-5 Diagram of External Memory

EMIFS

EMIFS is a 16-bit interface, and provides four 64MB chip selects (CS0~CS3). CS1 and CS2 can be divided into two 32MB chip selects. It supports memories such as NAND Flash, NOR Flash and SRAM, asynchronous and synchronous memories with AD mux or NON mux interface. Also, EMIFS supports synchronous burst read, asynchronous read, asynchronous page read and asynchronous write.

EMIFF

EMIFF is a 16-bit interface, and supports SDRAM (up to 128MB), mobile SDRAM and mobile DDR. The maximum clock signal of the interface is 96MHz. The system can boot from CS0 (internal ROM), or from CS3 (external memory).

Clock

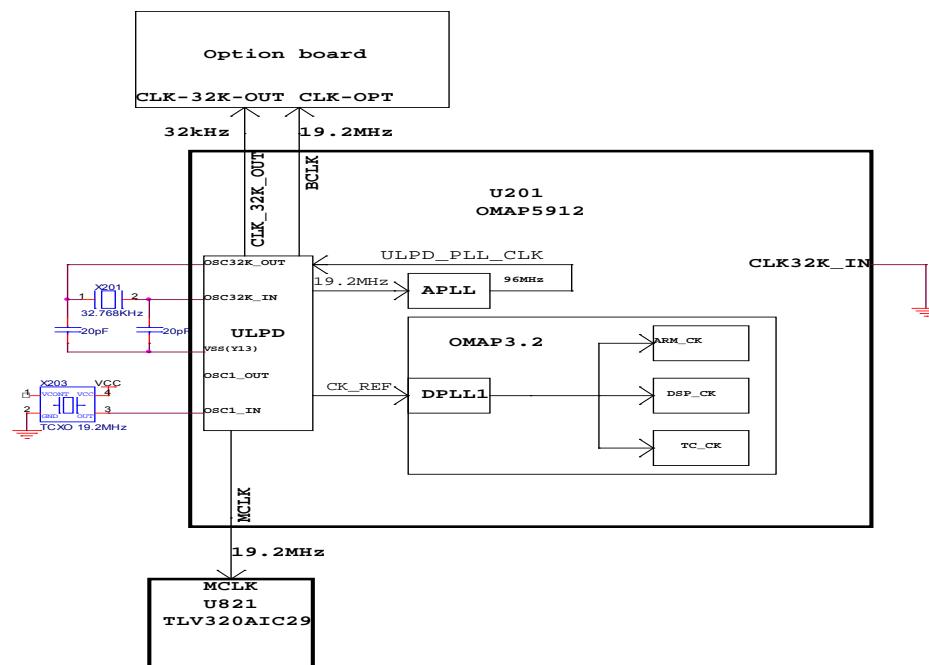


Figure 3-6 Diagram of Baseband Clock

Input Clock

- 32K Clock: It is also called “sleep clock” and is mainly used for timing and sleeping of the system.
- 19.2MHz Clock: It is mainly used to provide input clock for APLL and DPLL.

Output Clock

There are three output clocks:

- MCLK: provides 19.2MHz clock to the audio codec.
- BCLK: provides 19.2MHz clock to the option board.
- CLK32K_OUT: provides 32 KHz clock to the option board.

Reset signal

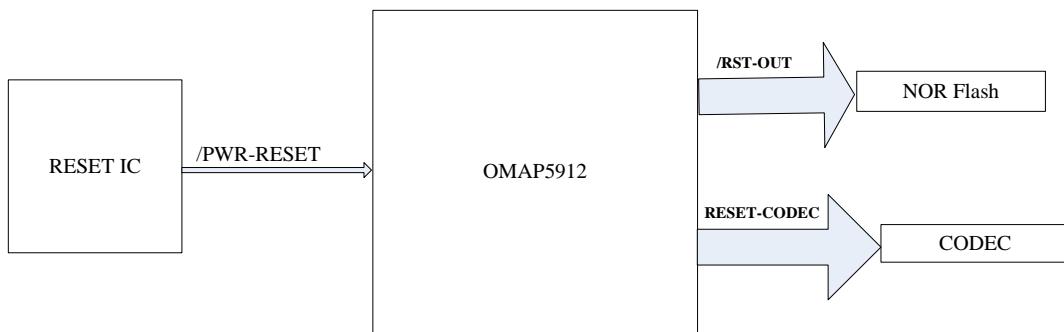


Figure 3-7 Diagram of Reset Signal

SPI

OMAP5912 has one SPI, which has four chip selects for connecting four external SPI components. The SPI signals available are SPI.CS, SPI.SCK, SPI.DOUT and SPI.DIN. The system uses SPIF.CS2 to select the IF processor AD9864, to configure register of AD9864. The connection of SPI is shown below.

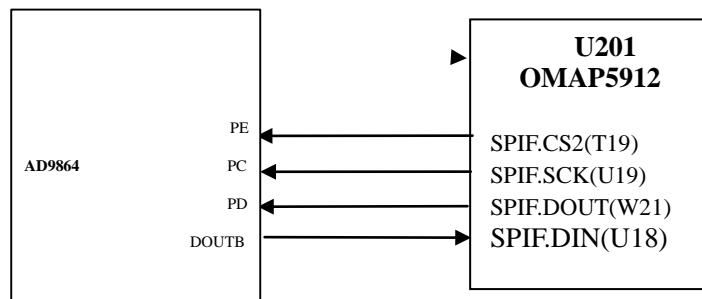


Figure 3-8 Diagram of SPI Connection

MCBSP

OMAP5912 provides 3 MCBSP interfaces: MCBSP1, MCBSP2 and MCBSP3. MCBSP1 is connected with the I2S interface of the audio codec, to realize two-way transmission of digital voice and data. MCBSP2 uses independent clock and frame synchronization for transmission and reception.

AD9864 SSI is connected to the RX end of OMAP5912 MCBSP2. AD9864 works in master mode, while DSP works in slave mode. DAC is connected to the TX end of MCBSP2, and DSP works in master mode. MCBSP3 is connected to the option board.

The connection of MCBSP is shown below.

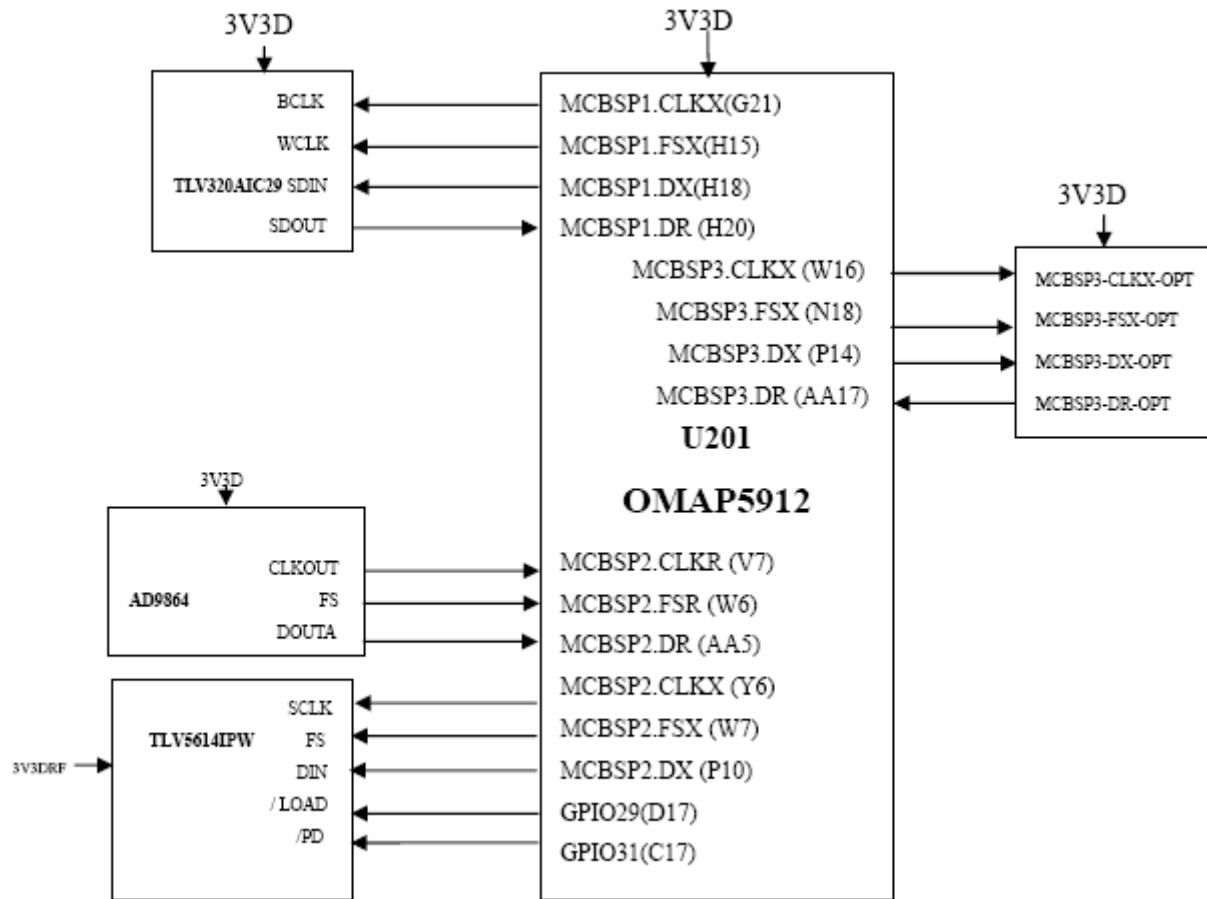


Figure 3-9 Diagram of MCBSP Connection

USB

OMAP5912 provides 3 USB interfaces. One interface integrates a USB transceiver, which is connected to the accessory jack and is used for program downloading and data application.

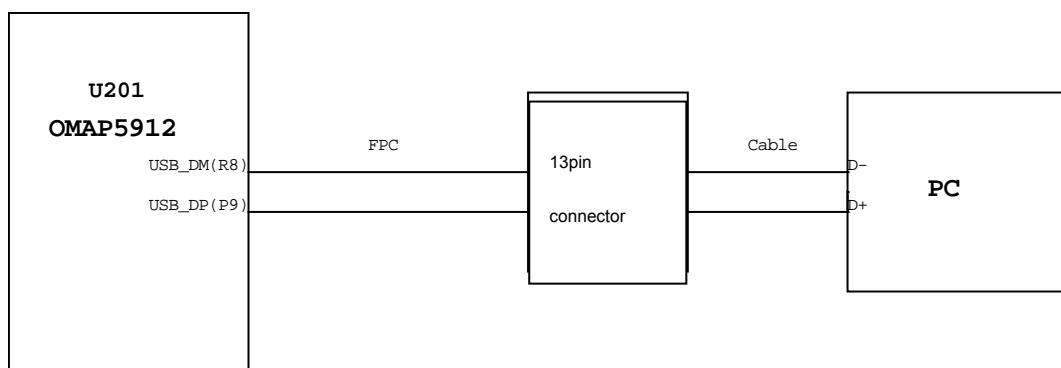


Figure 3-10 Diagram of USB Interface

UART

OMAP5912 has three UART interfaces (UART1, UART2 and UART3), and supports hardware flow control. The maximum communication rate is 1.5Mbps. The connection of UART is shown below. UART1 is connected to the accessory jack, and is used for updating and programming. UART2 is for GPS, and UART3 is for the bluetooth module.

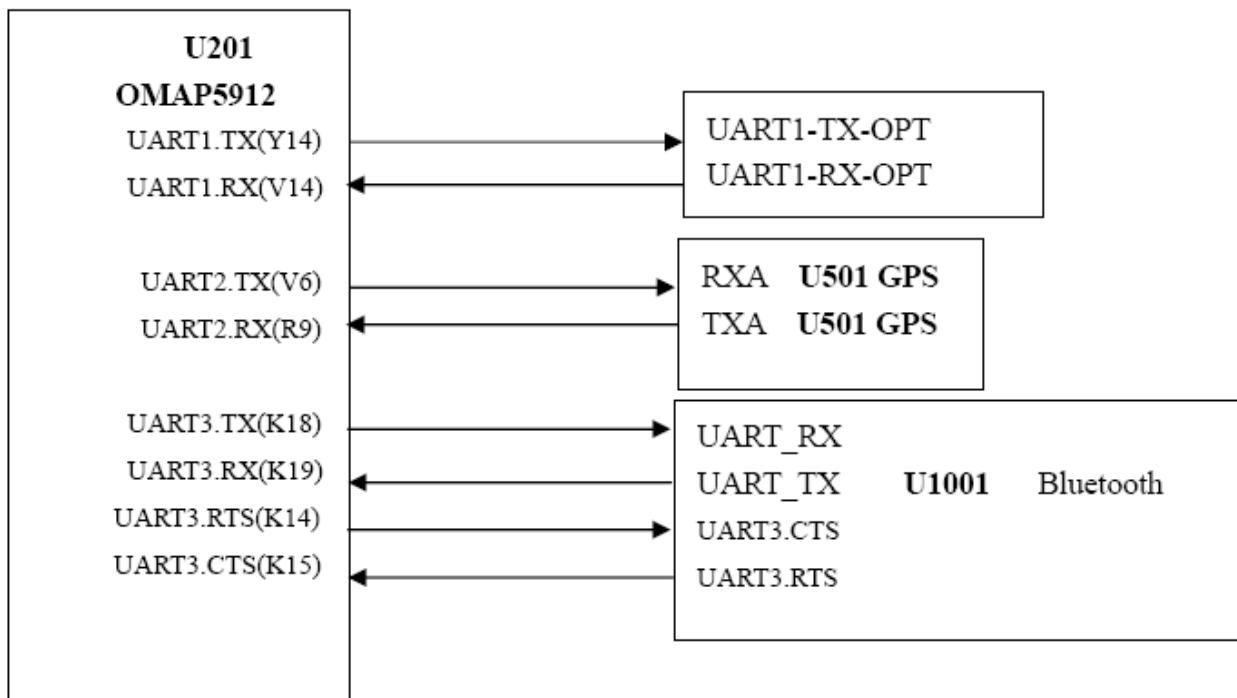


Figure 3-11 Diagram of UART Interface Connection

I2C

OMAP5912 provides one I2C interface, and supports communication rate up to 400Kbps. The I2C interface is connected with the acceleration sensor and RTC chip distinguished by different address, and works in slave mode. The connection of I2C is shown below.

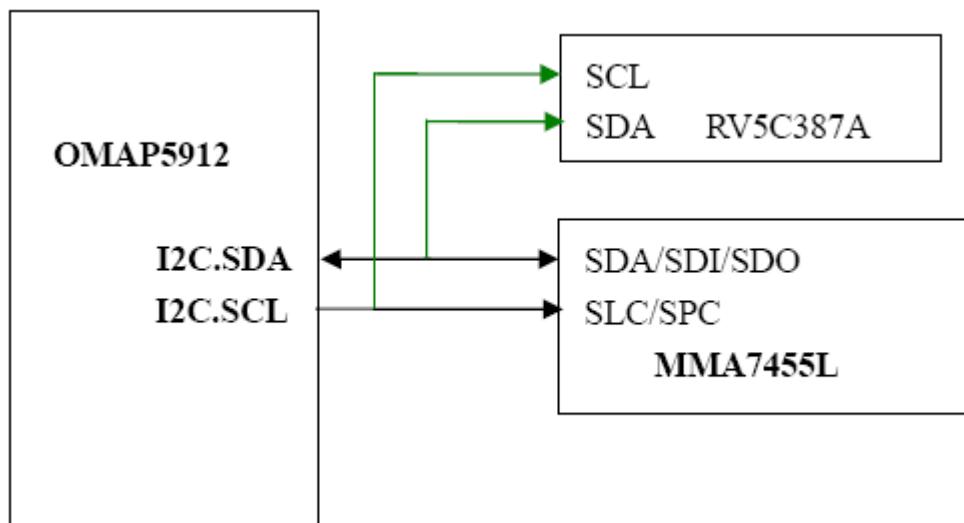


Figure 3-12 Diagram of I2C Connection

MICROWIRE

OMAP5912 provides a MICROWIRE. The four chip select signals can drive four external components. MICROWIRE is used to configure the audio codec and read the value of its register. It uses the chip select signal 3. The connection is shown below.

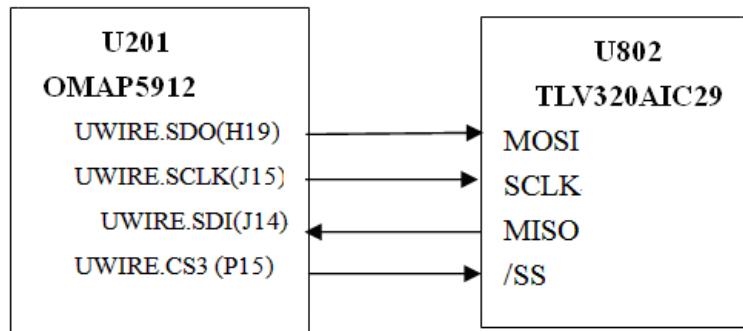


Figure 3-13 Diagram of MICROWIRE Interface Connection

MCSI1

OMAP5912 has two MCSI interfaces. MCSI1 is used for PLL configuration and data transmission. The connection of MCSI1 is shown below.

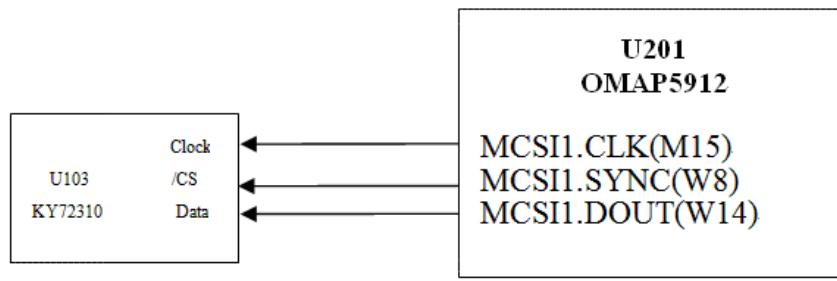


Figure 3-14 Diagram of MCSI1 Connection

3.1.3 Audio Section

Audio Diagram

The audio module is mainly for audio input and output. TLV320AIC29 is used as the audio codec to convert and process audio signal and digital signal. The audio amplifier TDA8547TS is used to amplify the analog audio signal. DSP processes digital signal (audio signal encoding/decoding, digital I/Q signal decoding, and digital audio signal processing). AD9864 converts and processes the RF IF signal, and sends the undemodulated serial digital I/Q signal to the DSP for processing. Then DAC5614 converts the digital signal output by DSP to analog signal.

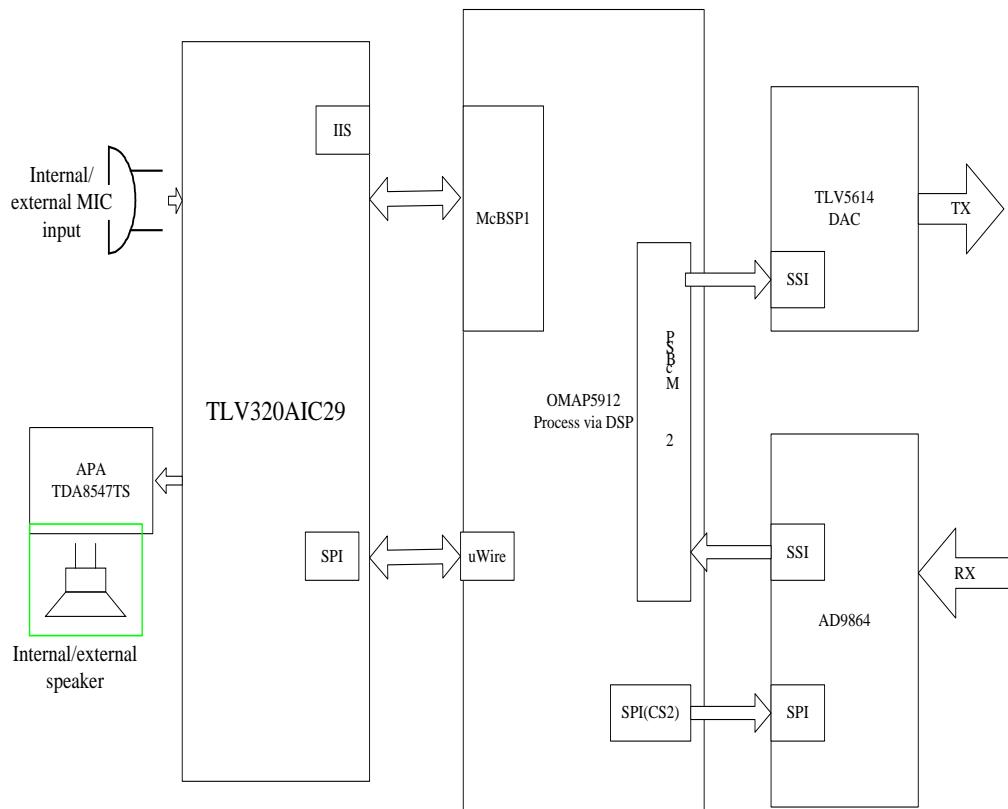


Figure 3-15 Diagram of Audio Diagram

Diagram of Signal Flow

The microphone converts the audio signal into electrical signal, which is then amplified by PGA of the codec and sent to ADC of the codec for sampling. After digital audio processing, the signal is output to DSP for processing. Then the signal is sent to DAC (TLV5614), which converts the signal to modulation signal. After modulated and amplified in the RF module, the signal is sent out from the antenna.

The RF signal received by the RF module is converted to digital signal by ADC (AD9864), and is then sent to DSP for demodulation and processing. Then the digital signal is sent to the digital audio processor of the codec for digital audio processing, and is then converted into analog audio signal by DAC of the codec. Finally the signal is amplified by the external audio amplifier (TDA8547TS) to drive the speaker.

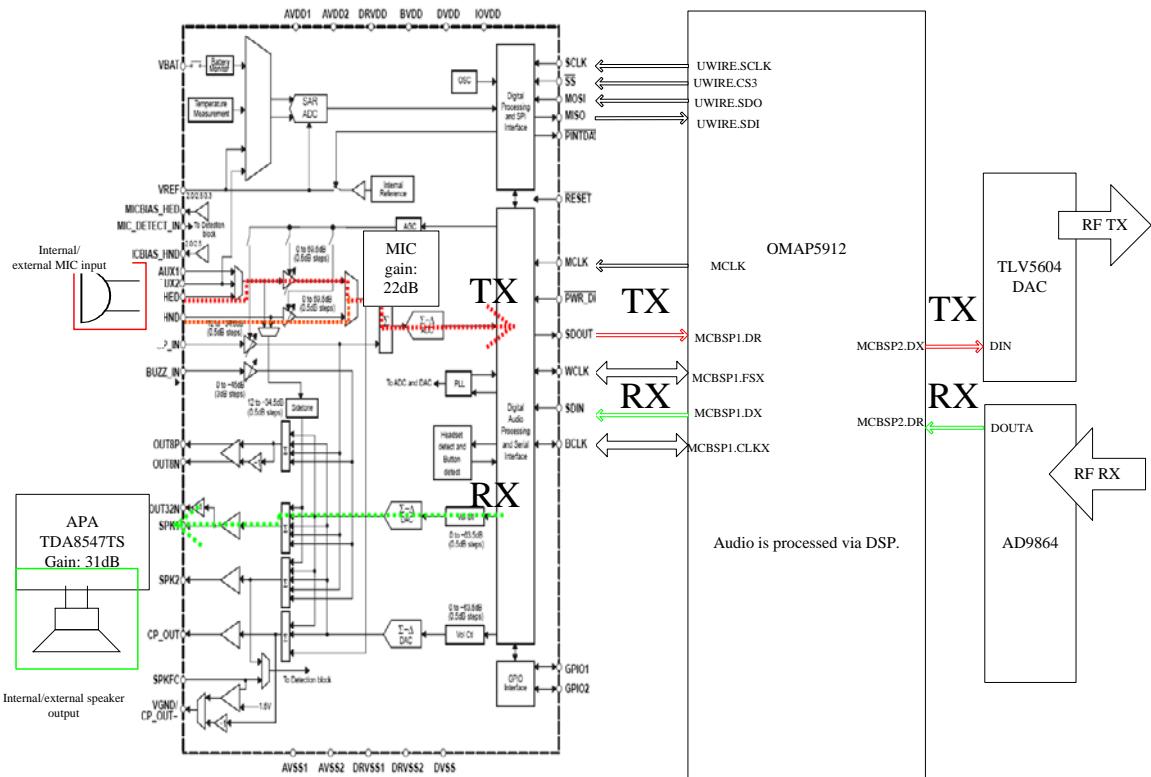


Figure 3-16 Diagram of Audio Signal Flow

Audio Amplifier

Main parameters of TDA8547TS are listed in the table below:

Rated Power (P_o)	0.5W	$R_L = 16\Omega$
Maximum Power (P_{max})	1.2W	$R_L = 16\Omega$
Rated Audio Distortion	3%	$R_L = 16\Omega, P_o = 0.9W$

The operation status of the audio amplifier is controlled via GPIO of OMAP. See the table below.

Mode-Amp	SEL-SPK	MODE	SELECT	OUT
1	1	0	0	OUT2
1	0	0	1	OUT1
0	1	1	1	Standby

3.2 RF Section

3.2.1 Transmitter Circuit

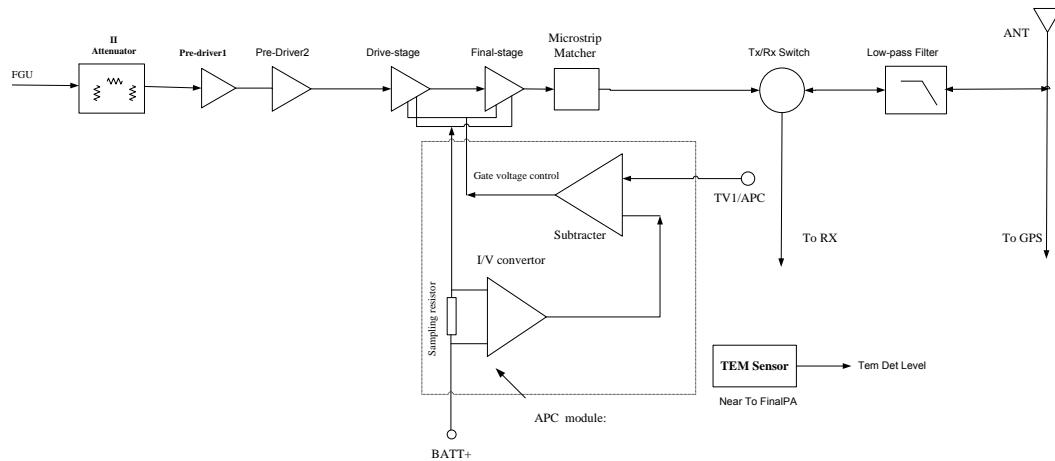


Figure 3-17 Diagram of Transmitter Circuit

The transmitter circuit is mainly composed of:

- RF power amplifier circuit
- Low-pass filter circuit (for suppressing harmonics)
- Auto power control circuit (APC) (including temperature detection circuit)

The carrier signal generated by TX VCO is modulated and amplified, and then feeds to the transmitter circuit. In this circuit, the signal passes through a π -type attenuator first, allowing interstage isolation between the RF power amplifier circuit and TX VCO. Then it goes to a pre-driver amplifier (2SC3356) for pre-amplification, providing certain further interstage isolation. After that, the signal goes to another pre-driver amplifier (2SC4988) and a driver amplifier (RD01) for adequate power amplification, so as to obtain further amplification in the final-stage amplifier (RD07). After processed by multiple amplifiers, the signal is processed by a microstrip matcher to complete output impedance matching, so as to reduce output power loss due to impedance mismatch.

The low-pass filter is a high-order Chebyshev filter composed of lumped-parameter inductors and capacitors. Via this filter, the spurious signal within the stop band can be attenuated as much as possible while the in-band ripple is within the required range.

In the auto power control and temperature detection circuit, the drain current from the driver amplifier and final-stage amplifier is converted to voltage via the sampling resistor and subtraction circuit (composed of the first operational amplifier). This voltage is compared with the APC control voltage (output by DAC) at the second operational amplifier. Then the error voltage, which is output by the second operational amplifier, controls TX power by controlling the bias voltage at the gates of the

amplifiers (including the driver amplifier and the final-stage amplifier). The temperature sensor detects the surface temperature of the final-stage amplifier, and converts it to DC voltage. Then the DC voltage is compared with the voltage corresponding to the protection temperature (generally 90% of the extreme temperature) of the amplifier. If the surface temperature is too high, the bias voltage of the amplifier will be reduced until the surface temperature falls below the protection temperature.

3.2.2 Receiver Circuit

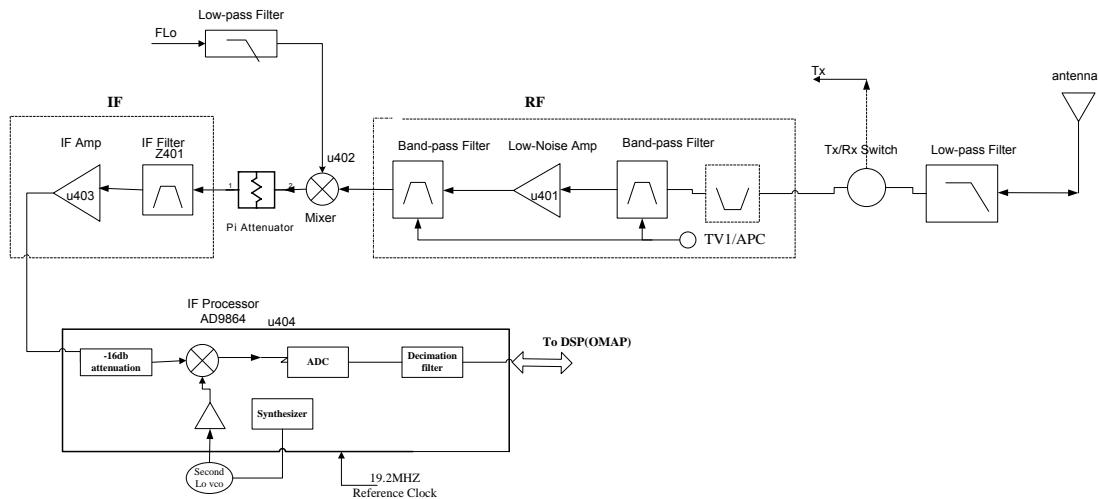


Figure 3-18 Diagram of Receiver Circuit

The receiver circuit mainly comprises the RF band-pass filter, low-noise amplifier, mixer, IF filter, IF amplifier and IF processor.

Receiver Front-end

The HF signal from the low-pass filter passes through the electrically tunable band-pass filter controlled via APC/TV1 level, to remove out-of-band interference signal and to send wanted band-pass signal to the low-noise amplifier (VHF: Q9010 and UHF1&UHF3: Q9001). The amplified signal goes to a band-pass filter controlled via APC/TV1 level, to remove out-of-band interference signal generated during amplification, and to send wanted HF signal to the mixer.

The wanted signal passes through the RF band-pass filter and low-noise amplifier and goes to the mixer (D9017). Meanwhile, the first local oscillator (LO) signal generated by VCO passes through the low-pass filter and also goes to the mixer (D9017). In the mixer, the wanted signal and the first LO signal are mixed to generate the first IF signal. Then the signal passes through an II-type attenuator (2dB) and the LC, to suppress carrier other than the first IF signal, and to increase the isolation between the mixer and the IF filter. After that, the first IF signal is processed by the crystal filter (Z9001), and is sent to the two-stage IF amplifier circuit (composed of PBR941) for amplification. Then the amplified signal goes to the IF processor AD9864 (U401) for processing.

Receiver Back-end

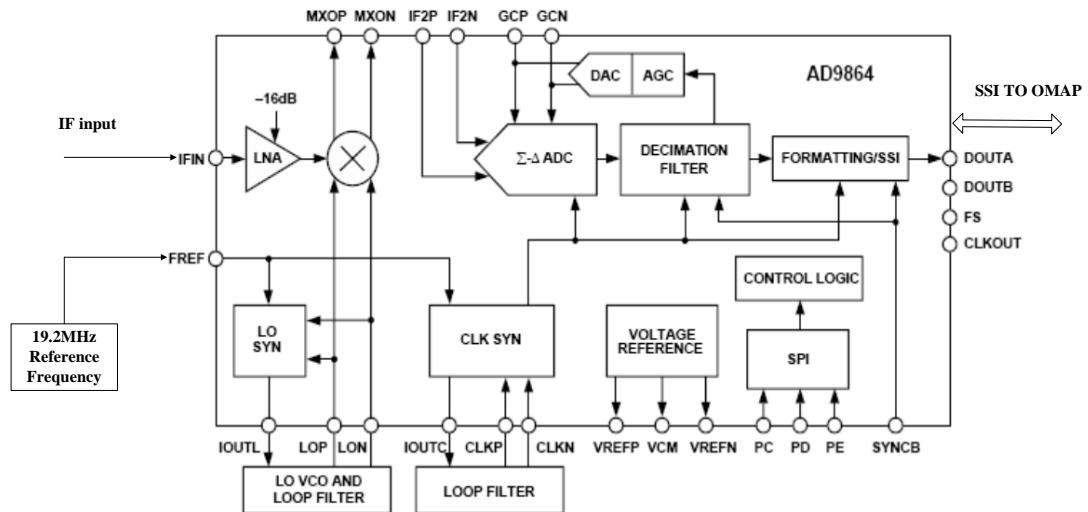


Figure 3-19 Diagram of IF Processor

The first IF signal output by the IF amplifier goes into AD9864 (U401) via Pin 47, where the signal is converted to the second IF signal. Then the signal is converted to digital signal via ADC sampling, and output via the SSI interface. Finally, the digital signal is sent to the DSP (OMAP5912) for demodulation.

AD9864 employs reference frequency of 19.2MHz and shares the crystal with OMAP. The second LO VCO comprises an oscillator, a varactor and some other components, to provide the LO signal. The 18MHz clock frequency is generated by the LC resonance loop.

3.2.3 Frequency Generation Unit (FGU)

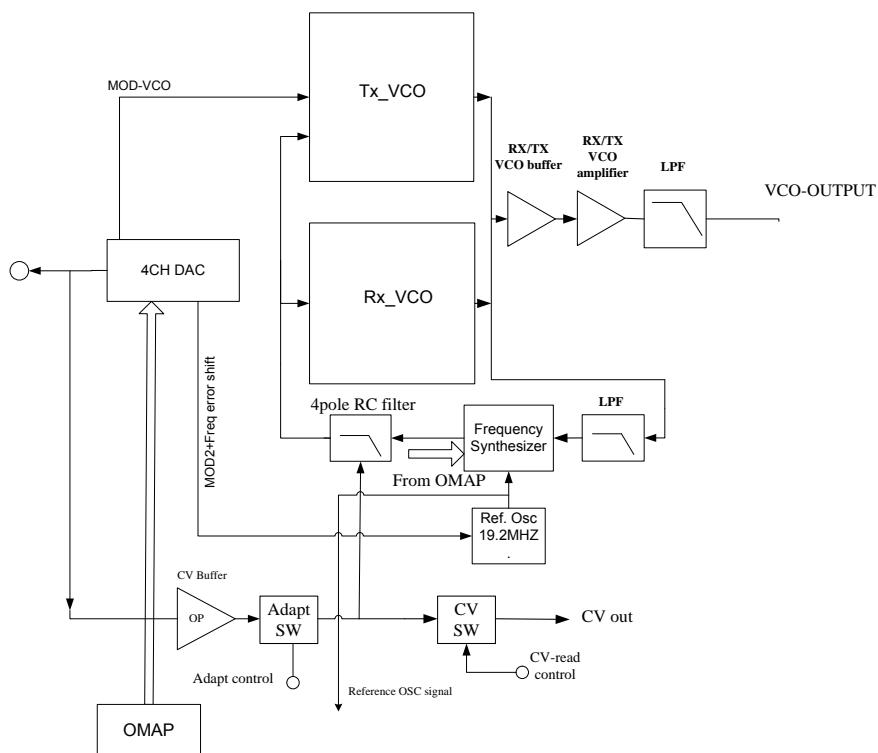


Figure 3-20 Diagram of Frequency Generation Unit (FGU)

The FGU is composed of VCO and PLL. It is the core module of the whole TX-RX system. This circuit provides accurate carrier frequency during transmission, and stable LO signal during reception. It has a direct influence on the performance of the system.

Working Principle of PLL

The 19.2MHz frequency generated by the reference crystal oscillator goes to PLL for division, generating the reference frequency (i.e. step frequency f_1). Meanwhile, the frequency generated by VCO generates another frequency (f_2) through the frequency divider in PLL. Then frequencies f_1 and f_2 are compared in the phase detector (PD), to generate continuous pulse current. The current goes to the loop filter for RC integration, and is then converted to CV voltage. Then the CV voltage is sent to the varactor of VCO. It adjusts the output frequency of VCO directly until the CV voltage becomes constant. Then PLL is locked, and the stable frequency output by VCO goes to the TX-RX channel after passing through two buffer amplifiers.

Working Principle of VCO

VCO employs Colpitts oscillator circuit (the RX oscillator circuit is composed of D102, D103, D106, D107 and L112; the TX oscillator circuit is composed of D108, D109, D110, D101 and L117). It obtains different output frequencies by changing the varactor's control voltage (i.e. CV voltage).

There are two types of VCO: TX VCO and RX VCO. Both types control EMD22 to switch operating status via OMAP. RX VCO is composed of the oscillator loop and Q104, to provide LO signal. TX VCO is composed of the oscillator loop and Q108, to provide carrier for TX signal.

Two-point Modulation

In TX mode, the two-point modulation technology is employed, to obtain higher modulation accuracy and lower 4FSK bit error rate.

3.3 GPS Circuit

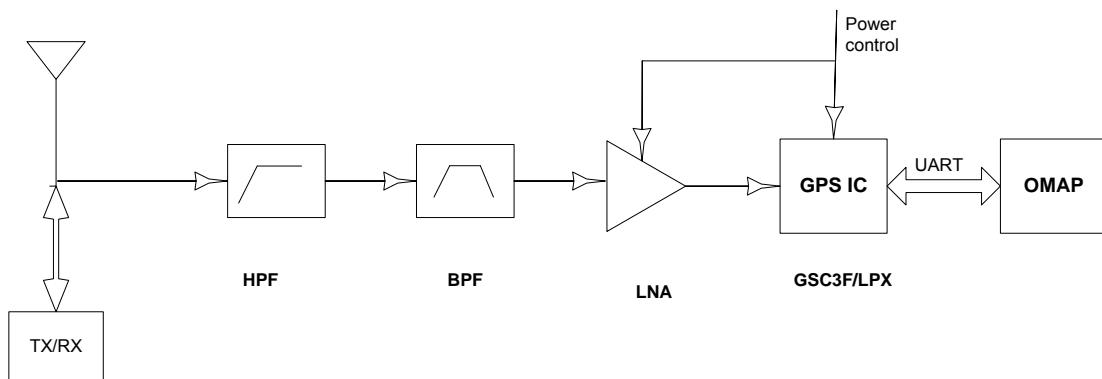


Figure 3-21 Diagram of GPS Circuit

The GPS function is realized via GSC3F/LPX. The GPS circuit integrates a baseband processor, a LNA

and a SAW. The 1575.42MHz GPS signal is received by the antenna, and then goes to HPF to remove the in-band signals used for transmission and reception. After that, the signal goes to BPF to further remove in-band signals, as well as harmonic and spurious signals. Then the weak GPS signal goes to a low-noise amplifier (LNA) for amplification. After amplified, the signal goes to the GPS module for further amplification and filtering, and is then sent to the baseband section for calculation. Then the calculated GPS positioning information is sent to OMAP via the UART interface. Meanwhile, OMPA can send appropriate command information to the GPS module via the UART interface.

4. Tuning Description

4.1 Required Test Instruments

- Radio communication test set (Aeroflex 3920 and HP8921)
- 10V/3A regulated DC power supply
- Multimeter
- Tuner software

4.2 Tuning Procedures

4.2.1 Tuning a Radio

After the radio is reassembled, it is required to use the Tuner software to tune it.

The specific operations are described in the table below:

Item	Method
TX Section	
Reference Oscillator Warp	<ol style="list-style-type: none">1. Connect the antenna connector of X1e with the HP8921, and set the HP8921 to TX test mode.2. Open the Tuner software, go to “TUNE_DATA -> TX” and double click “Reference Oscillator Warp” from the navigation tree on the left. Then click the “Transmit On” button.3. Observe the frequency displayed on HP8921, and adjust the vernier until the frequency offset is less than or equals to 40Hz.4. Click the “Transmit Off” button.5. Click the “Save” button to save your settings.
Transmit Power Calibration	<ol style="list-style-type: none">1. Connect the antenna connector of X1e with the HP8921, and set the HP8921 to TX test mode.2. Open the Tuner software, go to “TUNE_DATA -> TX” and double click “Transmit Power Calibration” from the navigation tree on the left. Then select an appropriate channel.3. Click the “Transmit On” button.4. Adjust the power to the required level as described below: L: 1.2±0.1W

Item	Method
	<p>H (VHF): 4.7 ± 0.1W</p> <p>H (UHF1&UHF3): 4.2W</p> <p>5. Click the “Save” button to save your settings.</p>
Transmit-to-Deviation	<p>1. Connect the antenna connector of X1e with the HP8921, and set the HP8921 to TX test mode.</p> <p>2. Set the HP8921 as follows:</p> <p>IF Filter: 230kHz</p> <p>Filter1: <20Hz HPF</p> <p>Filter2: <15kHz LPF</p> <p>De-Emphasis: OFF</p> <p>3. Open the Tuner software, go to “TUNE_DATA -> TX” and double click “Transmit-to-Deviation” from the navigation tree on the left. Then click the “Transmit On” button.</p> <p>4. Observe the frequency deviation displayed on HP8921, and adjust the vernier until it is $5k \pm 50$Hz.</p> <p>5. Click the “Transmit Off” button.</p> <p>6. Click the “Save” button to save your settings.</p>
Modulation Balance	<p>1. Connect the antenna connector of X1e with the HP8921, and set the HP8921 to TX test mode.</p> <p>2. Set the HP8921 as follows:</p> <p>IF Filter: 230kHz</p> <p>Filter1: <20Hz HPF</p> <p>Filter2: <15kHz LPF</p> <p>De-Emphasis: OFF</p> <p>3. Open the Tuner software, go to “TUNE_DATA -> TX” and double click “Modulation Balance” from the navigation tree on the left. Then select an appropriate channel.</p> <p>4. Click the “Transmit On” button.</p> <p>5. Adjust the value in the dialog box until the frequency deviation displayed on HP8921 is $5k \pm 50$Hz.</p>

Item	Method
	<p>6. Press the Enter key on the keyboard to confirm your settings.</p> <p>7. Click the “Transmit Off” button.</p> <p>8. Click the “Save” button to save your settings.</p>
Transmit Oscillator Voltage	<p>1. Connect the antenna connector of X1e with the HP8921, and set the HP8921 to TX test mode.</p> <p>2. Open the Tuner software, go to “TUNE_DATA -> TX” and double click “Transmit Oscillator Voltage” from the navigation tree on the left.</p> <p>3. Click the “Save” button to save the existing value to X1e.</p>
RX Section	
Front-end Filter	<p>1. Connect the antenna connector of X1e with the HP8921.</p> <p>2. Connect the Audio Out port of X1e with the Audio In port of the HP8921, and set the HP8921 to RX test mode.</p> <p>3. Set HP8921 as follows:</p> <p>Output RF signal: -118dBm/Frequency (current channel frequency)</p> <p>Modulation frequency: 1kHz</p> <p>Modulation deviation: 3kHz</p> <p>De-Emphasis: 750 us</p> <p>4. Observe the value displayed on the HP8921 and adjust the vernier until the SINAD value is more than 14dB.</p> <p>5. Set the HP8921 as follows:</p> <p>Output RF signal:</p> <p>VHF: -25Bm/(current channel frequency: +22.425)</p> <p>UHF: -25Bm/(current channel frequency: -36.675MHz)</p> <p>6. Observe the SINAD value displayed on the HP8921 and adjust the vernier until it is less than 14 dB.</p> <p>7. Press the Enter key on the keyboard to confirm your settings.</p> <p>8. Click the “Save” button to save your settings.</p>
RX Front-End Gain	<p>1. Connect the antenna connector of X1e with the HP8921, and set the HP8921 to RX test mode.</p>

Item	Method
	<ol style="list-style-type: none"> 2. Set the HP8921 to output -70dBm / Frequency (current channel frequency) unmodulated RF signal. 3. Press the Enter key on the keyboard to confirm your settings. 4. Click the “Save” button to save your settings.
Receive Oscillator Voltage	<ol style="list-style-type: none"> 1. Connect the antenna connector of X1e with the HP8921, and set the HP8921 to RX test mode. 2. Open the Tuner software, go to “TUNE_DATA -> RX” and double click “Receive Oscillator Voltage” from the navigation tree on the left. 3. Click “Save” to save the existing value to X1e.
Mandown Calibration	<ol style="list-style-type: none"> 1. Keep X1e in a vertical position. 2. Open the Tuner software, go to “TUNE_DATA -> RX” and double click “Mandown Calibration” from the navigation tree on the left. 3. Click Read button to read the calibration data. 4. Click the “Save” button to save the calibration data.

4.2.2 Testing a Radio

After tuning X1e, it is required to test the digital RF signal.

Transmitting

Step 1 Open the Tuner software and go to “TEST -> TX”, and double click “Transmit BER (0.153)” from the navigation tree on the left.

Step 2 Select the frequency to be tested.

Step 3 Click the “Transmit On” button.

Step 4 Set the Aeroflex 3920.

- Frequency: be consistent with the frequency to be tested.
- STD IB 511(.153)

Step 5 View all items on the Aeroflex 3920.

- Frequency Error≤100Hz
- Transmit Power: 4.4~5W
- FSK Error ≤5%
- Magnitude Error ≤1%

Receiving

Step 1 Open the Tuner software and go to “TEST -> RX”, and double click “Receiver BER (0.153)” from the navigation tree on the left.

Step 2 Select the frequency to be tested.

Step 3 Set the Aeroflex 3920.

- Frequency: be consistent with the frequency to be tested.
- STD IB 511(.153)
- Lvl: -116.0dBm

Step 4 Click the “Start” button.

Step 5 The average error rate is less than or equal to 5%.

5. Interface Definition

5.1 J602: 50-Pin Interface

Pin No.	Name	Function	Valid Level
4, 6, 8, 36, 37, 38, 40, 41, 42, 44, 46, 47, 48, 49, 50	GND	Ground	/
25	EXT-MIC+	External MIC interface	/
27	EXT-MIC-		
23	INT-MIC+	Internal MIC interface	/
21	INT-MIC-		
2	3V3EXT	External power supply	/
24	KEY-OPT	Programmable key	L
45	USB-D+	USB data cable	/
43	USB-D-		
22	EMERGENCY	Emergency key	L
14	TD-IO	TD synchronization output	/
12	EXT-PTT	External PTT detection	L
26	PTT-INT	Internal PTT detection	L
16	SEL1-Accessory	Accessory identifier	L
20	SEL2-Accessory		
18	SEL3-Accessory		
17/19	IN-SPK-	Internal speaker	/
13/15	IN-SPK+		
5/7	EXT-SPK-	External speaker	/
9/11	EXT-SPK+		
1	PWR-SW+	Power-on/ power-off signal	/
3	PWR-SW-		

Pin No.	Name	Function	Valid Level
35	CH1		
33	CH2		/
31	CH4	Channel detection	
29	CH8		
32	MOTOR-CTL	Motor control	H
34	Vol	Volume control	/
39	3V3D	Power supply (3.3V)	/
28	LED-IND1		
30	LED-IND2	LED control	
10	LED-IND3		H

5.2 J301: Option Board Interface

Pin No.	Name	Function	Valid Level
1	GPIO27-OPT		
2	GPIO61-OPT		
3	MPUIO13-OPT	GPIO pin of the option board	L/H
4	GPIO63-OPT		
5	MPUIO15-OPT		
7	UART1-RX-OPT		
6	UART1-TX-OPT	UART1	/
8	SPI-MISO-BT		
9	SPI-MOSI-BT		
19	SPI-CLK-BT	SPI	/
20	SPI-CS-BT		
10、14	GND	Ground	/
11	3V3D	Power supply (3.3V)	/
12	AF-Codec-to-OPT	Analog audio signal output/input	/

Pin No.	Name	Function	Valid Level
13	AF-OPT-to-Codec		
15	MCBSP3-FSX-OPT		
16	MCBSP3-DX-OPT		
17	MCBSP3-CLKX-OPT	MCBSP3	/
18	MCBSP3-DR-OPT		

5.3 13-Pin Accessory Interface

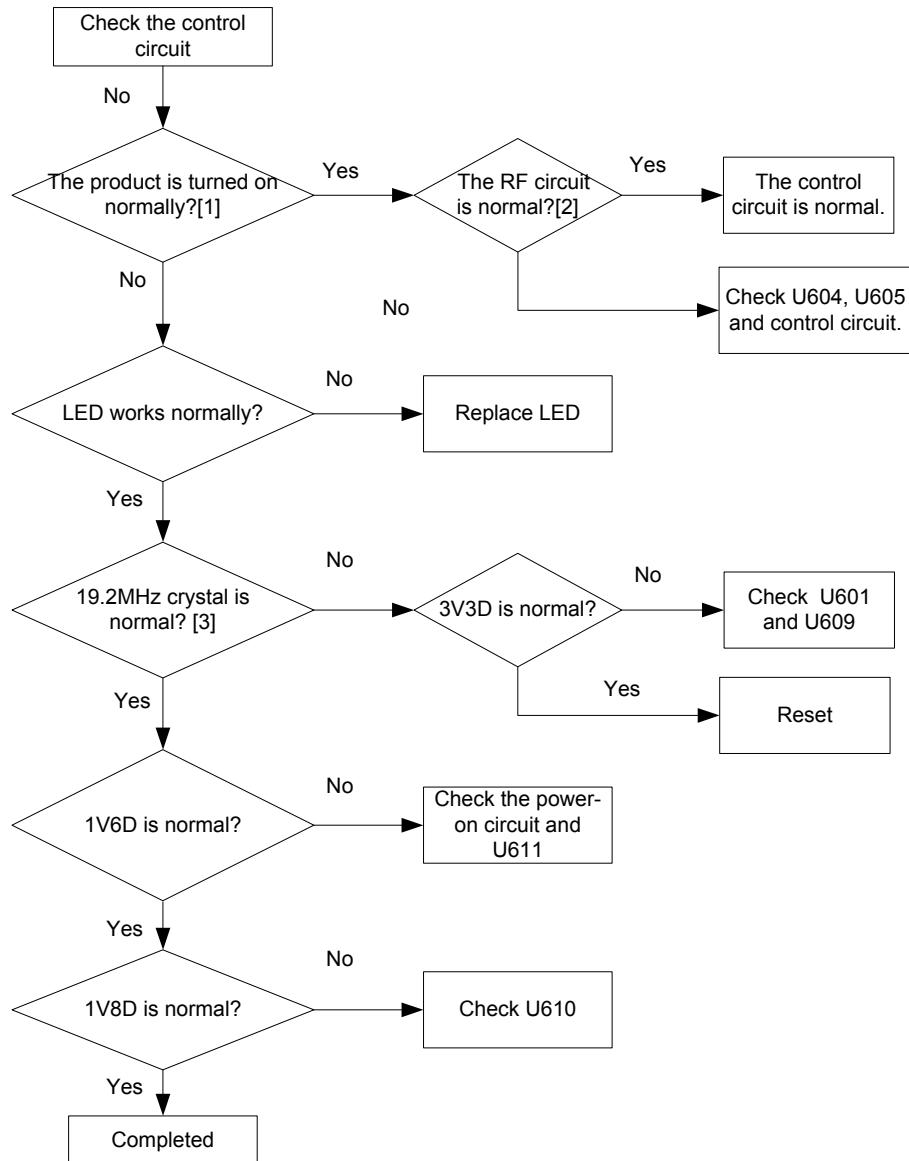
Pin No.	Signal	I/O	Specification	Description
1, 2	SPK +/-	Audio Out	8.4V max 0.5A max	Load: $410\Omega \pm 5\%$; audio power: $W \leq 30\text{mW}$; Max. voltage: $V_{rms} = 3 \pm 0.5\text{V}$. (the voltage difference between SPK- and SPK+)
3, 4	MIC +/-	Audio In	2.5V 3 mA max	Voltage: 2.5V; external MIC gain: $-42 \pm 2\text{dB}$ (3V, 2.2k)
5	SWB+	Power	4~3V	DC output voltage: $I_{max} = 100\text{mA}$
6	GND	/	/	Ground (digital signal)
7	SEL1_OPT	In	3.3V (interface level)	For common detection
8	SEL2_OPT	In	3.3V pullup	For common detection
9	SEL3_OPT	I/O	3.3V pullup	For common monitoring or communication
10	PTT	In	3.3V pullup	TX control (valid at low level)
11	TD	Out	3.3V pullup	TD synchronization signal output pin
12, 13	USB +/-	/	/	USB data cable

5.4 Definition of Accessory Identifiers

OPT_SEL1	OPT_SEL2	OPT_SEL3	Definition
0	0	0	Reserved
0	0	1	Reserved
0	1	0	USB master mode for the radio
0	1	1	For connecting earpieces
1	0	0	For connecting MODEM
1	0	1	For connecting remote speaker microphones
1	1	0	Programming cable / USB slave mode for the radio
1	1	1	No accessory

6. Troubleshooting Flow Chart

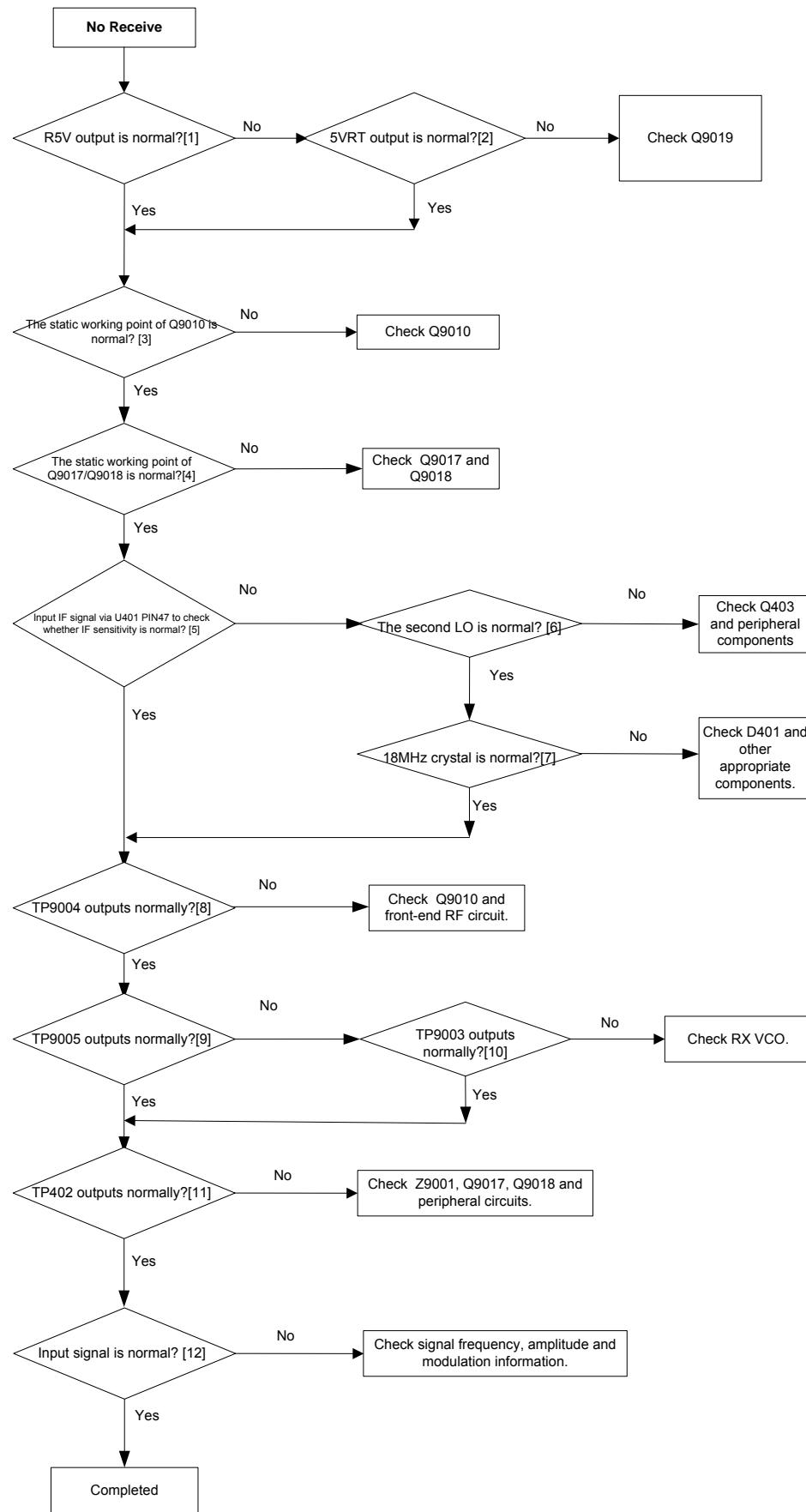
6.1 Control Circuit



Description of Normal Situations:

- [1] The LED works properly after turning on the radio.
- [2] The RF power supply outputs normally, and the RX channel is on.
- [3] Vpp: 700mV~800mV, F: 19.2MHz.

6.2 Receiver Circuit



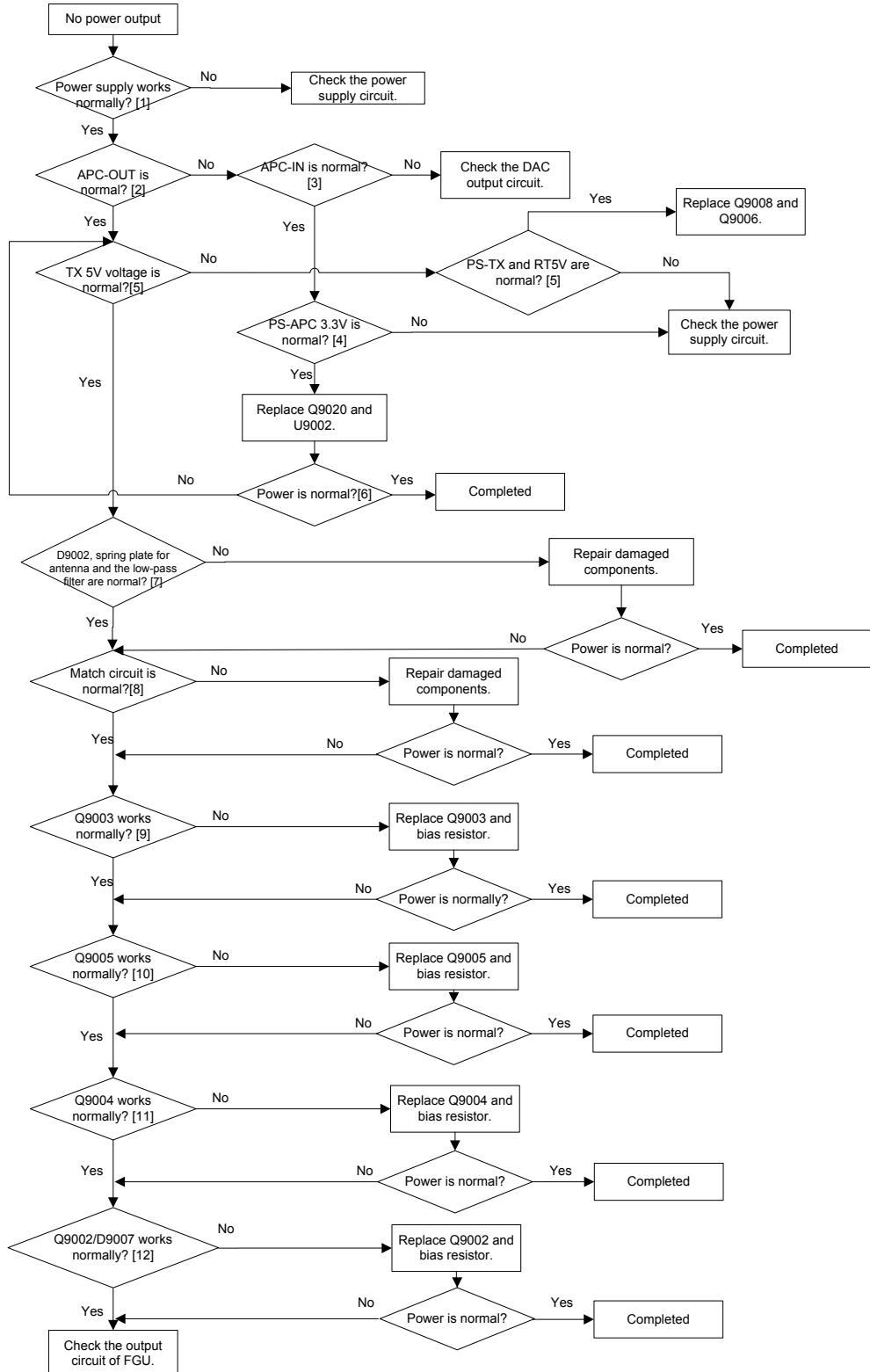
Description of Normal Situations:

- [1] Output voltage at Q9019 PIN3: about 4.95V.
- [2] Output voltage at U605 PIN4 or input voltage at Q9019 PIN4: about 5V.
- [3] Vbe: about 0.74V; Vce: about 2.5V (in the case of no signal reception).
- [4] For Q9018, Vbe: about 0.76V; Vce: about 0.95V; for Q9017, Vbe: about 0.7V; Vce: 0.85V (in the case of no signal reception).
- [5] Cut off the front-end circuit, and input the IF signal (VHF: 44.85MHz; UHF1&UHF3: 73.35MHz) at TP402 to test IF sensitivity. Normally, the IF sensitivity is -109dBm.
- [6] Frequency of Q403:
VHF: 42.6MHz; UHF1&UHF3: 71.1MHz.
- [7] Frequency of Q411: 18MHz.
- [8] Input a -30dBm RF signal and test at TP9004. Normally, gain>10dB, output signal>-20dBm.
- [9] Input a -30dBm RF signal and test at TP9005 (do not cut off the back-end circuit). Normally, gain>10dB, output signal>-29dBm.
- [10] Signal frequency: RF-IF, signal amplitude>2dBm.
- [11] For input of -80dBm signal, gain>25dB, output signal>-55dBm;
for input of -30dBm signal, output signal<-20dBm.
- [12] The input signal, with standard tuning information (AF=1 KHz, FM=3 KHz), is -47dBm.

6.3 Transmitter Circuit

⚠ Caution

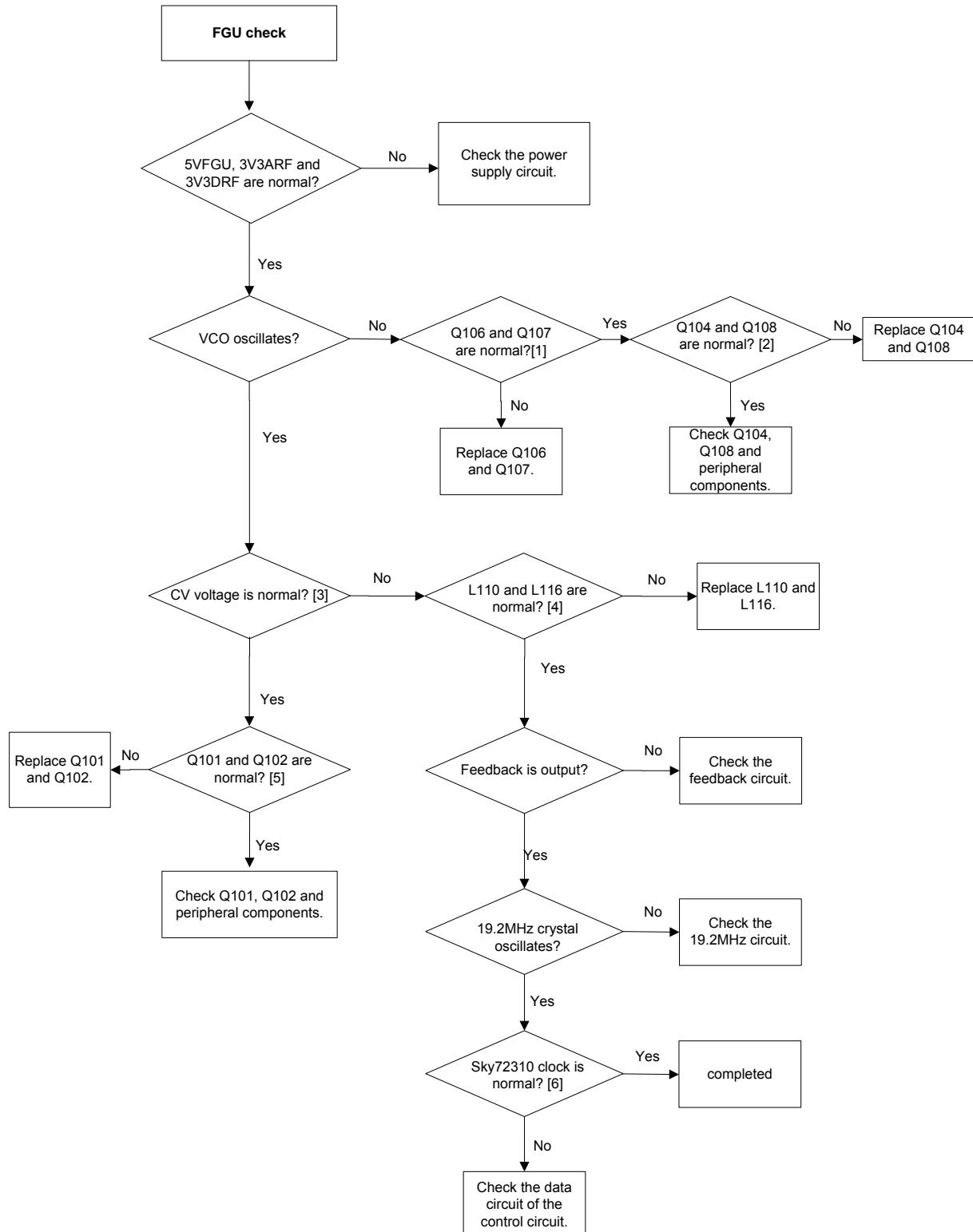
The following check operations should be made under 7.4V voltage.



Description of Normal Situations:

- [1] Voltage of the power supply: about 7.4V.
- [2] For low power, APC-OUT: 1.8-2.1V; for high power, APC-OUT: 2.4-2.8V.
- [3] For low power, APC-IN: 1-1.3V; for high power, APC-IN: 1.8-2.1V.
- [4] PS-APC: about 3.3V.
- [5] TX5V: about 5V; RT5V: about 5V; PS-TX: about 3.3V.
- [6] High power: about 4.2W; low power: about 1.2W.
- [7] Start-up voltage of D9002: about 0.7V. The low-pass coil must be soldered appropriately and remain in good condition. The spring plate for the antenna must well fit the antenna connector.
- [8] The match components must not be soldered inappropriately or damaged.
- [9] Vdd: about 7.3V; for low power, Vgg: 1-1.2V; for high power, Vgg: 1.35-1.55V.
- [10] Vdd: about 7.3V; for low power, Vgg: 1.8-2.1V; for high power, Vgg: 2.4-2.8V.
- [11] Vc: about 4.8V; Vb: about 1.4V; Ve: about 1.1V.
- [12] Vc: about 4.7V; Vb: about 0.7V; Ve: 0V. Start-up voltage of D9007: about 0.7V.

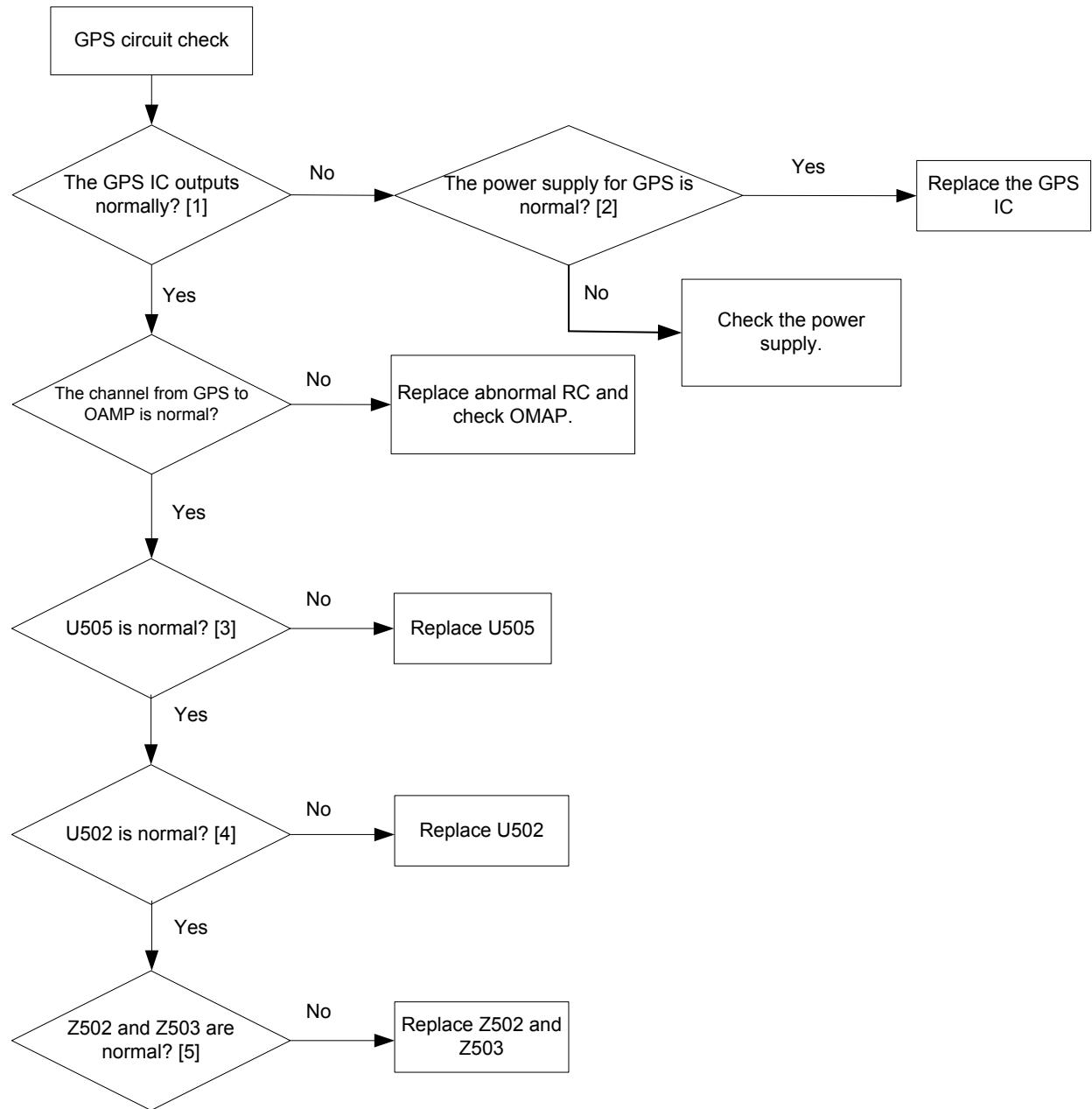
6.4 FGU



Description of Normal Situations:

- [1] During transmission, output voltage by Q107 PIN3: about 4V.
During reception, output voltage by Q106 PIN3: about 4V.
- [2] During transmission, voltage at Q108 E: about 1.8V.
During reception, voltage at Q104 E: about 1.8V.
- [3] The CV value varies with frequencies. Generally, it is within the range 0.5V-4.5V.
- [4] L110/L116 is on.
- [5] Voltage at Q101/Q102 B: about 0.7V.
- [6] MCSI-CLK-PLL outputs 960 KHz clock.

6.5 GPS Circuit



Description of Normal Situations:

- [1] Detect with a multimeter. The voltage of TP502 changes from 1.2V to 2.8V.
- [2] Voltage at TP504: 3.3V.
- [3] Gain for U505 (@ 1.57542GHz) : <15dB.
- [4] Clock output for U502 (@ 16.369MHz) : >0.8Vpp
- [5] Insertion loss for Z502 and Z503 (@ 1.57542GHz): <4dB.

7. Parts List

7.1 Main Board

7.1.1 VHF

No.	Ref No.	Print No.	Part No.	Description
1	A	T4F	620250200000	DC shielding mask
2	ANT1	T3A	6202482000010	Spring plate for antenna
3	B	B3B	6202551000000	GPS shielding mask
4	C	B5E	6202553000000	IF shielding mask
5	C100	T2G	3101058200000	82PF
6	C1001	B5J	3101051050160	1uF
7	C1003	B5J	3101051050160	1uF
8	C1004	B5J	3101054730040	47nF
9	C1005	B5J	3101051050160	1uF
10	C1006	B5J	3101051050160	1uF
11	C1007	B5J	3101051050160	1uF
12	C1009	B4I	3101052230000	0.022UF
13	C101	B3F	3101054710010	470PF
14	C1010	B4J	3101051200020	12PF
15	C1011	B4I	3101051500020	15PF
16	C1012	B5I	3101064750010	4.7UF
17	C1014	B5I	3101051050160	1uF
18	C1015	B5I	3101051050160	1uF
19	C1016	B5I	3101051050160	1uF
20	C1017	B5I	3101051050160	1uF
21	C1018	B5J	3101051050160	1uF
22	C1019	B4J	3101051050160	1uF
23	C102	B2F	3101051040060	0.1UF
24	C1020	B4I	3101051050160	1uF
25	C1021	B5I	3101051050160	1uF
26	C103	B2F	3101051020010	1000PF
27	C104	B2F	3101051020010	1000PF
28	C105	B1H	3101051040060	0.1UF
29	C107	B2F	3101051000020	10PF
30	C108	B2F	3101051020010	1000PF
31	C109	T2G	3101051800010	18PF
32	C110	T1G	3101053310030	330PF
33	C111	T2F	3101050700010	Chip capacitor 7PF
34	C112	T2F	3101050700010	Chip capacitor 8PF
35	C114	T2F	3101050500010	5PF
36	C115	T2F	3101050500010	5PF
37	C116	T2F	3101051000020	10PF
38	C117	B2G	3101051040060	0.1UF

No.	Ref No.	Print No.	Part No.	Description
39	C118	B2G	3101051020010	1000PF
40	C119	T2F	3101053000010	30PF
41	C120	B2G	3101051020010	1000PF
42	C121	B2G	3101051040060	0.1UF
43	C122	B2G	3101050400010	4PF
44	C123	B1G	3101061500010	Chip capacitor
45	C124	B2G	3101051020010	1000PF
46	C125	B1G	3101060500010	5PF
47	C126	T1G	3101051020010	1000PF
48	C127	T2G	3101051500020	15PF
49	C128	B1G	3101061300000	Chip capacitor 13PF
50	C129	B1G	3101064790010	4.7PF
51	C130	B1G	3101062700010	27PF
52	C131	B2F	3101051200020	12PF
53	C132	B1G	3101052210010	220PF
54	C133	B1G	3101062590010	Chip capacitor
55	C134	B1G	3101062400010	24PF
56	C135	T1G	3101051020010	1000PF
57	C136	B3F	3101051020010	1000PF
58	C137	B1H	3101051020010	1000PF
59	C138	B3G	3101051040060	0.1UF
60	C139	B3G	3101051020010	1000PF
61	C140	B3F	3101062250000	2.2UF
62	C141	B2F	3101051040060	0.1UF
63	C142	B2F	3101051020010	1000PF
64	C143	B2G	3101050600010	6PF
65	C144	B2G	3101060500010	5PF
66	C145	B2G	3101061800000	18PF
67	C146	B2G	3101061800000	18PF
68	C147	B3G	3101060600010	6PF
69	C148	B2G	3101062700010	27PF
70	C149	B2G	3101061590010	1.5PF
71	C151	B2G	3101052710000	270PF
72	C152	B2G	3101060200010	Chip capacitor
73	C153	B2G	3101062400010	24PF
74	C154	B2G	3101051050160	1uF
75	C155	T2G	3101051020010	1000PF
76	C156	B2H	3101051020010	1000PF
77	C157	B2G	3101062250000	2.2UF
78	C158	B3H	3101062250000	2.2UF
79	C159	B2G	3101051020010	1000PF
80	C160	B2H	3101052210010	220PF
81	C161	B2G	3101051020010	1000PF
82	C162	B1H	3101051020010	1000PF

No.	Ref No.	Print No.	Part No.	Description
83	C163	T2H	3101051020010	1000PF
84	C164	T2H	3101051040060	0.1UF
85	C166	T1H	3101051040060	0.1UF
86	C167	T2H	3101051040060	0.1UF
87	C168	T2H	3101051020010	1000PF
88	C169	T2H	3101051040060	0.1UF
89	C170	T2H	3101051020010	1000PF
90	C172	T1H	3101051020010	1000PF
91	C173	T2H	3101051010030	100PF
92	C174	T2H	3101051030020	0.01UF
93	C175	T1H	3101052710000	270PF
94	C176	T1H	3101053310030	330PF
95	C177	T1G	3101072240000	0.22UF
96	C178	T1G	3101073340000	0.33UF
97	C179	T2H	3101051040060	0.1UF
98	C180	T1H	3101051020010	1000PF
99	C182	B2H	3101051040060	0.1UF
100	C183	T1H	3101051020010	1000PF
101	C184	B1H	3101051020010	1000PF
102	C185	T1H	3104072250060	2.2UF
103	C186	T2F	3101052700000	27PF
104	C187	T1G	3101054710010	470PF
105	C188	T1G	3101050300000	3PF
106	C189	T1G	3101053000010	30PF
107	C190	T2G	3101051510000	150PF
108	C191	T2G	3101054710010	470PF
109	C192	T2G	3101050200010	2PF
110	C193	T2G	3101051020010	1000PF
111	C194	T2G	3101051800010	18PF
112	C195	T1G	3101050300000	3PF
113	C196	T1G	3101053310030	330PF
114	C197	T2G	3101050100030	1PF
115	C198	T2F	3101052200010	22PF
116	C201	B4I	3101051520000	1500PF
117	C202	T3H	3101051020010	1000PF
118	C203	T1J	3101052000020	20PF
119	C204	T1J	3101052000020	20PF
120	C206	T3H	3101051020010	1000PF
121	C207	T3H	3101052710000	270PF
122	C208	T3H	3101053310030	330PF
123	C209	T4H	3101053920000	3900PF
124	C210	T4H	3101052240010	0.22UF
125	C211	T3H	3101051020010	1000PF
126	C212	B3I	3101052240010	0.22UF

No.	Ref No.	Print No.	Part No.	Description
127	C213	B2J	3101051040060	0.1UF
128	C214	B2J	3101051040060	0.1UF
129	C215	B4I	3101051030020	0.01UF
130	C216	B3J	3101052240010	0.22UF
131	C217	T2J	3101054700010	47PF
132	C218	B4J	3101052240010	0.22UF
133	C219	B4J	3101051040060	0.1UF
134	C220	B2J	3101051040060	0.1UF
135	C221	B4I	3101052240010	0.22UF
136	C222	B4I	3101051050160	1uF
137	C223	B3I	3101051520000	1500PF
138	C224	B4I	3101074750000	4.7UF
139	C225	T1J	3110997090000	Super capacitor 0.07F
140	C226	B3J	3101052240010	0.22UF
141	C227	B3K	3101053920000	3900PF
142	C228	B3J	3101054710010	470PF
143	C229	B3J	3101051050160	1uF
144	C230	B3J	3101052240010	0.22UF
145	C231	B3I	3101053920000	3900PF
146	C232	B4J	3101054710010	470PF
147	C233	T2I	3101054700010	47PF
148	C234	B2I	3101052240010	0.22UF
149	C235	B2J	3101074750000	4.7UF
150	C236	B2J	3101051050160	1uF
151	C237	B2J	3101053920000	3900PF
152	C238	B4J	3101051040060	0.1UF
153	C239	B3I	3101051040060	0.1UF
154	C240	B3I	3101051040060	0.1UF
155	C242	T2J	3101052240010	0.22UF
156	C243	B3J	3101054710010	470PF
157	C244	B3K	3101054710010	470PF
158	C245	B2J	3101053920000	3900PF
159	C246	B3J	3101051520000	1500PF
160	C247	B3K	3101051050160	1uF
161	C248	B4I	3101053920000	3900PF
162	C249	B2I	3101053920000	3900PF
163	C250	B3I	3101051040060	0.1UF
164	C251	B3I	3101051030020	0.01UF
165	C252	B4I	3101054700010	47PF
166	C253	B4I	3101051040060	0.1UF
167	C274	B6H	3101051200020	12PF
168	C278	B3H	3101054700010	47PF
169	C279	B3H	3101054700010	47PF
170	C280	B3H	3101054700010	47PF

No.	Ref No.	Print No.	Part No.	Description
171	C281	B4H	3101054710010	470PF
172	C282	T3J	3101053920000	3900PF
173	C283	B3I	3101054700010	47PF
174	C284	T2I	3101052710000	270PF
175	C285	T2I	3101055610000	560PF
176	C286	T2I	3101055610000	560PF
177	C287	T2I	3101054710010	470PF
178	C288	B4H	3101054710010	470PF
179	C289	T2I	3101053920000	3900PF
180	C290	B4I	3101053920000	3900PF
181	C291	B4J	3101054710010	470PF
182	C292	B4I	3101054710010	470PF
183	C293	B3I	3101054710010	470PF
184	C294	B4J	3101054710010	470PF
185	C295	B4I	3101054710010	470PF
186	C297	B4I	3101054710010	470PF
187	C298	B4I	3101054710010	470PF
188	C299	B4I	3101054710010	470PF
189	C300	T2J	3101051010030	100PF
190	C301	T3J	3101054710010	470PF
191	C302	T3J	3101054710010	470PF
192	C303	T2J	3101054710010	470PF
193	C304	T2J	3101052710000	270PF
194	C305	T2J	3101054710010	470PF
195	C306	B6H	3101051040060	0.1UF
196	C307	T2J	3101054710010	470PF
197	C308	T2J	3101052710000	270PF
198	C309	T2J	3101052710000	270PF
199	C310	T1I	3101051040060	0.1UF
200	C311	T2I	3101051040060	0.1UF
201	C315	T2J	3101051040060	0.1UF
202	C329	B4J	3101051040060	0.1UF
203	C331	B4K	3101051040060	0.1UF
204	C332	T5I	3101051050160	1uF
205	C420	B3E	3101052200010	22PF
206	C422	T2G	3101051040060	0.1UF
207	C423	B3F	3101051050160	1uF
208	C425	B4G	3101054700010	47PF
209	C426	T3G	3101051030020	0.01UF
210	C427	T3G	3101052210010	220PF
211	C428	T3G	3101051010030	100PF
212	C429	T3G	3101051010030	100PF
213	C430	T3G	3101051040060	0.1UF
214	C431	T3G	3101052210010	220PF

No.	Ref No.	Print No.	Part No.	Description
215	C433	T3G	3101051040060	0.1UF
216	C434	T3G	3101051040060	0.1UF
217	C436	T3G	3101051030020	0.01UF
218	C437	B4G	3101065620010	5600PF
219	C438	T3G	3101051010030	100PF
220	C439	T3H	3101051010030	100PF
221	C440	T3H	3101051030020	0.01UF
222	C441	T3H	3101051040060	0.1UF
223	C442	T3H	3101051030020	0.01UF
224	C443	T3H	3101053900000	39PF
225	C445	T3G	3101051040060	0.1UF
226	C446	T3G	3101051040060	0.1UF
227	C447	T3G	3101051030020	0.01UF
228	C449	T3G	3101051030020	0.01UF
229	C450	T4G	3101061230000	0.012UF
230	C452	T4H	3101050600010	6PF
231	C453	T3G	3101051030020	0.01UF
232	C454	T4G	3101051030020	0.01UF
233	C455	T3H	3101063320000	3300PF
234	C456	B4G	3101060900010	9PF
235	C457	B3E	3101051030020	0.01UF
236	C458	B3G	3101061800000	18PF
237	C459	B4F	3101054710010	470PF
238	C460	B3G	3101064700000	47PF
239	C461	B3G	3101063300000	33PF
240	C462	B3F	3101051040060	0.1UF
241	C463	T3G	3101072240000	0.22UF
242	C464	B3G	3101052000020	20PF
243	C465	B4F	3101051040060	0.1UF
244	C466	T4G	3101051040060	0.1UF
245	C467	B4F	3101062250000	2.2UF
246	C468	T2H	3104076840020	Tantalum capacitor 0.68UF
247	C470	T4G	3101052710000	270PF
248	C471	T4G	3101052710000	270PF
249	C472	T3H	3101062250000	2.2UF
250	C473	T4G	3101052710000	270PF
251	C474	B3F	3101054710010	470PF
252	C518	T3B	3101051590000	1.5PF
253	C519	T3B	3199050758000	0.75PF
254	C520	T3B	3101050100030	1PF
255	C521	T3B	3101051590000	1.5PF
256	C530	T3C	3101051010030	100PF
257	C531	B3C	3101052200010	22PF
258	C532	B3B	3101050300000	3PF

No.	Ref No.	Print No.	Part No.	Description
259	C533	T2C	3101051020010	1000PF
260	C534	B2C	3101051020010	1000PF
261	C535	B2C	3101051020010	1000PF
262	C536	B3C	3101051800010	18PF
263	C537	B3C	3101053300000	33PF
264	C538	B3C	3101051390010	1.3PF
265	C539	T1C	3101051030020	0.01UF
266	C540	B1C	3101051020010	1000PF
267	C541	B2C	3101051800010	18PF
268	C542	B1B	3101051800010	18PF
269	C543	B2C	3101051030020	0.01UF
270	C544	B3B	3101051020010	1000PF
271	C545	T2C	3101052240010	0.22UF
272	C546	B2C	3101051040060	0.1UF
273	C547	B1B	3101051040060	0.1UF
274	C549	T1C	3101062250000	2.2UF
275	C550	T2C	3101062250000	2.2UF
276	C551	T1C	3101051040060	0.1UF
277	C552	T2C	3101051040060	0.1UF
278	C553	T2C	3101051010030	100PF
279	C554	T3C	3101051030020	0.01UF
280	C555	T3C	3101051020010	1000PF
281	C556	B3C	3101051050160	1uF
282	C557	B2C	3101062250000	2.2UF
283	C559	T1C	3101051050160	1uF
284	C560	T3C	3101051040060	0.1UF
285	C561	T2C	3101051040060	0.1UF
286	C601	B4H	3101062250000	2.2UF
287	C602	B3E	3101051010030	100PF
288	C603	B3E	3101074750000	4.7UF
289	C604	B2E	3101051040060	0.1UF
290	C605	B2E	3101051050160	1uF
291	C606	B2E	3101062250000	2.2UF
292	C607	B2E	3101051040060	0.1UF
293	C608	B3F	3101051040060	0.1UF
294	C614	B3D	3101055690110	5.6PF
295	C615	B1D	3101051040060	0.1UF
296	C616	B3D	3101051010030	100PF
297	C617	B2E	3101051040060	0.1UF
298	C618	B3E	3101051040060	0.1UF
299	C619	T5G	3101051030020	0.01UF
300	C620	B2E	3101051010030	100PF
301	C621	B2E	3101074750000	4.7UF
302	C622	B2E	3101051040060	0.1UF

No.	Ref No.	Print No.	Part No.	Description
303	C623	B2E	3101051050160	1uF
304	C624	B2E	3101062250000	2.2UF
305	C625	B2E	3101051040060	0.1UF
306	C626	B2E	3101051040060	0.1UF
307	C627	T4G	3110081060000	Capacitor 10uF
308	C628	T4F	3101062240000	0.22UF
309	C630	T4F	3101051040060	0.1UF
310	C634	B5G	3101074750000	4.7UF
311	C635	B5H	3101051040060	0.1UF
312	C636	T4H	3110071060000	Capacitor 10uF
313	C638	T4H	3101053920000	3900PF
314	C639	T5I	3101051040060	0.1UF
315	C640	T5I	3101052240010	0.22UF
316	C641	B4F	3101062250000	2.2UF
317	C642	B5F	3101051040060	0.1UF
318	C644	T4G	3101052000020	20PF
319	C645	T4G	3101052210010	220PF
320	C647	B5G	3101051040060	0.1UF
321	C648	B5G	3101061050060	1UF
322	C649	B5H	3101062250000	2.2UF
323	C650	B5H	3101053920000	3900PF
324	C651	B5G	3101051040060	0.1UF
325	C652	B4F	3101051040060	0.1UF
326	C654	T5G	3110081060000	Capacitor 10uF
327	C655	T5F	3101062240000	0.22UF
328	C656	B5G	3101051040060	0.1UF
329	C658	T5G	3101051040060	0.1UF
330	C659	B5G	3101051040060	0.1UF
331	C660	B5H	3101062250000	2.2UF
332	C661	T5H	3110071060000	Capacitor 10uF
333	C662	B5H	3101053920000	3900PF
334	C663	B4F	3101062250000	2.2UF
335	C665	T5H	3110994760000	47uF
336	C666	T5H	3101053920000	3900PF
337	C668	B4G	3101051040060	0.1UF
338	C669	B4G	3101061050060	1UF
339	C670	B4H	3101062250000	2.2UF
340	C671	B4H	3101051040060	0.1UF
341	C672	T5G	3101052000020	20PF
342	C673	T4H	3110994760000	47uF
343	C674	T4G	3101052210010	220PF
344	C677	B5G	3101052240010	0.22UF
345	C678	B5G	3101062240000	0.22UF
346	C679	T4H	3101051040060	0.1UF

No.	Ref No.	Print No.	Part No.	Description
347	C680	T4H	3101054710010	470PF
348	C681	T5H	3101054710010	470PF
349	C682	T5H	3101051040060	0.1UF
350	C683	B5G	3101061050060	1UF
351	C684	B4H	3101053920000	3900PF
352	C685	B5F	3101054710010	470PF
353	C686	B5F	3101053920000	3900PF
354	C687	B5H	3101053920000	3900PF
355	C688	B4G	3101051040060	0.1UF
356	C689	B4F	3101054710010	470PF
357	C690	B4F	3101051040060	0.1UF
358	C691	T4J	3101054710010	470PF
359	C692	B4F	3101053920000	3900PF
360	C693	B5F	3101054740020	Chip capacitor 0.47uF
361	C702	B4H	3101052240010	0.22UF
362	C703	B3H	3101054710010	470PF
363	C704	B3H	3101054710010	470PF
364	C705	B3G	3101051020010	1000PF
365	C706	B4H	3101051050160	1uF
366	C707	B4G	3101051050160	1uF
367	C708	B3G	3101052210010	220PF
368	C709	T2H	3101051020010	1000PF
369	C711	B3G	3101051050160	1uF
370	C712	B3H	3101051050160	1uF
371	C713	B4G	3110061050000	Capacitor 1 uF
372	C801	T4K	3101051040060	0.1UF
373	C802	T3K	3101071060010	10UF
374	C803	T4K	3101052240010	0.22UF
375	C804	T4K	3101052710000	270PF
376	C805	T4K	3101051010030	100PF
377	C806	T4K	3101051010030	100PF
378	C808	T3K	3101053920000	3900PF
379	C809	T4K	3101051040060	0.1UF
380	C810	T3K	3101051040060	0.1UF
381	C813	T3K	3101053920000	3900PF
382	C816	T3J	3101061050060	1UF
383	C817	T4K	3101051040060	0.1UF
384	C818	T4J	3101056830040	Chip capacitor
385	C819	T4J	3101051030020	0.01UF
386	C820	T3K	3101051040060	0.1UF
387	C821	T2J	3101052240010	0.22UF
388	C822	T2K	3101051030020	0.01UF
389	C824	T2J	3101052240010	0.22UF
390	C825	T3K	3101062250000	2.2UF

No.	Ref No.	Print No.	Part No.	Description
391	C826	T3K	3101051030020	0.01UF
392	C827	T2K	3101051030020	0.01UF
393	C828	T2K	3101062250000	2.2UF
394	C831	T2K	3101051050160	1uF
395	C832	T3K	3101051050160	1uF
396	C833	T3K	3101051040060	0.1UF
397	C834	T3J	3101051050160	1uF
398	C835	B4K	3101054710010	470PF
399	C836	T2K	3101051040060	0.1UF
400	C837	T3J	3101051030020	0.01UF
401	C838	T2K	3101054710010	470PF
402	C839	T3K	3101051040060	0.1UF
403	C840	T5J	3101054710010	470PF
404	C841	T3K	3101053920000	3900PF
405	C842	T5J	3101051050160	1uF
406	C843	T5I	3101054710010	470PF
407	C844	T3K	3101053920000	3900PF
408	C845	T2K	3101051040060	0.1UF
409	C846	T5J	3101053920000	3900PF
410	C847	T2K	3101051050160	1uF
411	C848	T5I	3101054710010	470PF
412	C849	T5I	3101053920000	3900PF
413	C850	T2K	3101051040060	0.1UF
414	C851	B4K	3101054710010	470PF
415	C852	T5J	3101051050160	1uF
416	C853	T5J	3101054710010	470PF
417	C9001	T4C	3001050000000	0Ω
418	C9003	T4C	3101061000000	10PF
419	C9004	T4B	3101067590010	7.5PF
420	C9008	T3D	3101066800000	68PF
421	C9009	T3D	3101061010010	100PF
422	C9010	T3D	3101064790010	4.7PF
423	C9011	T3D	3101066800000	68PF
424	C9012	T3C	3101061810010	Chip capacitor 180PF
425	C9013	T4C	3101061020000	1000PF
426	C9014	T1C	3101051020010	1000PF
427	C9015	T4C	3101052700000	27PF
428	C9016	T4D	3101051020010	1000PF
429	C9017	T3B	3101062200010	22PF
430	C9018	T2E	3101051020010	1000PF
431	C9020	T5D	3101051040060	0.1UF
432	C9021	T3D	3101064700000	47PF
433	C9023	T3C	3101061000000	10PF
434	C9024	T3B	3101063000010	30PF

No.	Ref No.	Print No.	Part No.	Description
435	C9025	T2E	3101051020010	1000PF
436	C9027	T1D	3101050500010	5PF
437	C9028	T1D	3101051200020	12PF
438	C9029	T2E	3101051800010	18PF
439	C9030	T3D	3101062790000	Chip capacitor 2.7pF
440	C9031	T4C	3101062400010	24PF
441	C9032	T1D	3101050500010	5PF
442	C9033	T1D	3101051020010	1000PF
443	C9034	T2E	3101051020010	1000PF
444	C9035	T2D	3101051020010	1000PF
445	C9036	T2D	3101051020010	1000PF
446	C9037	T1E	3101051020010	1000PF
447	C9038	T2D	3101051040060	0.1UF
448	C9039	T2D	3101051020010	1000PF
449	C9040	T1C	3101053900000	39PF
450	C9041	T2D	3101051040060	0.1UF
451	C9042	T4D	3101051020010	1000PF
452	C9043	T4D	3101051040060	0.1UF
453	C9044	T2D	3101051030020	0.01UF
454	C9045	T2E	3101051020010	1000PF
455	C9046	T2E	3101051040060	0.1UF
456	C9047	T2D	3101051020010	1000PF
457	C9048	T2D	3101054710010	470PF
458	C9049	T2D	3101051040060	0.1UF
459	C9050	T2D	3101051020010	1000PF
460	C9051	T3D	3104082260060	Tantalum capacitor 22UF
461	C9052	T5C	3101054700010	47PF
462	C9056	T5E	3101051800010	18PF
463	C9057	T4D	3101051040060	0.1UF
464	C9058	T5D	3101052200010	22PF
465	C9059	B2D	3101051020010	1000PF
466	C9060	B1D	3101061020000	1000PF
467	C9061	B2D	3101051020010	1000PF
468	C9063	B1D	3101054720000	4700PF
469	C9064	B2D	3101051020010	1000PF
470	C9065	B1D	3101051520000	1500PF
471	C9066	B2D	3101051030020	0.01UF
472	C9067	B1D	3101051020010	1000PF
473	C9068	T4D	3101051030020	0.01UF
474	C9069	B2D	3101054710010	470PF
475	C9071	B1D	3101051040060	0.1UF
476	C9072	T5D	3101051030020	0.01UF
477	C9075	T2F	3101051020010	1000PF
478	C9081	T4D	3101054710010	470PF

No.	Ref No.	Print No.	Part No.	Description
479	C9082	T4D	3101051040060	0.1UF
480	C9083	T5D	3101051200020	12PF
481	C9084	T4C	3101051000020	10PF
482	C9085	B4E	3101051020010	1000PF
483	C9086	B3E	3101051040060	0.1UF
484	C9087	T5C	3101052000020	20PF
485	C9088	T5D	3101051210000	120PF
486	C9089	T5C	3101054700010	47PF
487	C9090	B4E	3101051030020	0.01UF
488	C9091	B4E	3101051040060	0.1UF
489	C9092	T2F	3101051040060	0.1UF
490	C9093	T2E	3101051020010	1000PF
491	C9095	T2E	3101051050160	1uF
492	C9096	T2F	3101051020010	1000PF
493	C9097	B4E	3101051040060	0.1UF
494	C9098	T2F	3101051020010	1000PF
495	C9099	B3E	3101051800010	18PF
496	C9100	T2F	3101051050160	1uF
497	C9101	B5E	3101052400010	24PF
498	C9102	T5C	3101050900000	9PF
499	C9103	B3E	3101051020010	1000PF
500	C9104	B3E	3101051040060	0.1UF
501	C9105	B5E	3101051500020	15PF
502	C9106	T5C	3101050600010	6PF
503	C9107	B5E	3101051500020	15PF
504	C9108	T5C	3101054700010	47PF
505	C9109	T5C	3101050900000	9PF
506	C9110	B4E	3101051030020	0.01UF
507	C9111	T4D	3101051800010	18PF
508	C9112	T5D	3101052200010	22PF
509	C9113	T4D	3101055600000	56PF
510	C9114	T5D	3101055600000	56PF
511	C9115	T5E	3101051200020	12PF
512	C9116	T4E	3101051200020	12PF
513	C9117	T4D	3101054710010	470PF
514	C9118	B3E	3101055600000	56PF
515	C9120	T4D	3101051040060	0.1UF
516	C9121	B4E	3101051020010	1000PF
517	C9122	B3E	3101055600000	56PF
518	C9123	T5C	3101051030020	0.01UF
519	C9124	B4E	3101051000020	10PF
520	C9125	T5D	3101053900000	39PF
521	C9126	T5C	3101051020010	1000PF
522	C9127	T5C	3101051040060	0.1UF

No.	Ref No.	Print No.	Part No.	Description
523	C9128	T5C	3101051030020	0.01UF
524	C9129	T5C	3101052200010	22PF
525	C9130	T5C	3101051500020	15PF
526	C9131	T4D	3101051020010	1000PF
527	C9133	T5E	3101054790040	4.7PF
528	C9141	B5E	3101058200000	82PF
529	D	B3F	6202552000000	VCO shielding mask
530	D101	B3H	3304010100180	Varactor
531	D102	B1H	3304010100990	Varactor
532	D103	B1H	3304010400000	Varactor
533	D104	B3F	3303990000060	Switching diode
534	D105	B3F	3303990000060	Switching diode
535	D106	B1G	3304010400000	Varactor
536	D107	B1H	3304010100990	Varactor
537	D108	B2G	3304010100990	Varactor
538	D109	B2G	3304010100180	Varactor
539	D110	B3H	3304010100990	Varactor
540	D111	B2G	3304010100890	Varactor
541	D112	T2H	3303990000060	Switching diode
542	D113	T2G	3303990000060	Switching diode
543	D114	T1G	3303990000060	Switching diode
544	D115	T2F	3303990000060	Switching diode
545	D116	T2F	3303990000060	Switching diode
546	D301	B6G	3307110100060	LED
547	D303	T1J	3301990000030	Schottky barrier diode
548	D304	T2J	3301990000030	Schottky barrier diode
549	D307	B4K	3399040600020	ESD protection diode
550	D308	B4K	3399040600020	ESD protection diode
551	D309	B4K	3399040600020	ESD protection diode
552	D310	B4K	3399040600020	ESD protection diode
553	D314	B5K	3399040600020	ESD protection diode
554	D317	B5K	3399040600020	ESD protection diode
555	D318	B3K	3310249900000	ESD protection diode
556	D319	B3K	3310249900000	ESD protection diode
557	D320	B3K	3399040600000	ESD protection diode
558	D321	B4J	3399040600000	ESD protection diode
559	D322	T5I	3399040600000	ESD protection diode
560	D401	T3H	3304060300050	Varactor
561	D402	B4G	3304010100220	Varactor
562	D602	B3D	3399040600020	ESD protection diode
563	D603	T4F	3399040600020	ESD protection diode
564	D604	B4H	3303030100010	Switching diode
565	D9002	T4D	3303030800040	Switching diode
566	D9003	T4C	3303990000060	Switching diode

No.	Ref No.	Print No.	Part No.	Description
567	D9004	T4C	3303990000060	Switching diode
568	D9005	T5D	3304060300040	Varactor
569	D9006	T5C	3303030300000	Schottky barrier diode
570	D9007	T2F	3303990000060	Switching diode
571	D9008	T2F	3303990000060	Switching diode
572	D9009	T4D	3304060300040	Varactor
573	D9010	B2D	3399990000080	Zener diode
574	D9011	T2F	3303990000060	Switching diode
575	D9012	T5C	3304060300040	Varactor
576	D9013	T5C	3304060300040	Varactor
577	D9014	T1F	3303990000060	Switching diode
578	D9017	T5E	3301250300000	Schottky barrier diode
579	E	B4F	6202550000000	DAC shielding mask
580	F	B4G	6202550000000	DAC shielding mask
581	F601	B3D	4099000000050	Fuse
582	F602	B4F	4002000000300	Fuse
583	F603	B4F	4002000000300	Fuse
584	G	B4H	6202555000000	Baseband shielding mask
585	H	B5I	6202554000000	Bluetooth shielding mask
586	J301	T4J	5201020000020	Board-to-board connector
587	J601	T3E	5208002200220	Battery connector
588	J602	B4K	5201050100030	Board-to-board connector
589	L100	T1G	3217106829010	Wire-wound inductor 8.2nH
590	L1001	B5J	3217105150000	Chip inductor 15nH
591	L1002	B5I	3221505121000	Bead 120Ω/100MHz
592	L101	B2F	3001060000000	0Ω
593	L102	B2F	3217106820010	Wire-wound inductor 82nH
594	L104	T2F	3217106390010	Wire-wound inductor 39nH
595	L106	B2G	3217106781000	Wire-wound inductor 780nH
596	L107	T2G	3217106820010	Wire-wound inductor 82nH
597	L109	B3F	3221505121010	Bead 120Ω/100MHz
598	L110	B1H	3217106781000	Wire-wound inductor 780nH
599	L111	B1G	3217107390020	0805CS-390XGLC 39nH
600	L112	B1G	3217107470010	Wire-wound inductor 47nH
601	L113	B1G	3212206561010	Multi-layer chip inductor 560nH
602	L114	B2F	3217106781000	Wire-wound inductor 780nH
603	L115	B2G	3217106781000	Wire-wound inductor 780nH
604	L116	B2H	3217106781000	Wire-wound inductor 780nH
605	L117	B3G	3217107680010	Chip inductor 68nH
606	L118	B3G	3217107560010	Wire-wound inductor 56nH
607	L119	B2G	3217106781000	Wire-wound inductor 780nH
608	L120	T1H	3221505121010	Bead 120Ω/100MHz
609	L121	T2G	3221505121010	Bead 120Ω/100MHz
610	L122	T2H	3221505121010	Bead 120Ω/100MHz

No.	Ref No.	Print No.	Part No.	Description
611	L123	T2H	3221505121010	Bead 120Ω/100MHZ
612	L124	T1H	3210406471000	Multi-layer chip inductor 470nH
613	L125	B2G	3210305330000	Multi-layer chip inductor 33nH
614	L127	T2G	3217106820010	Wire-wound inductor 82nH
615	L128	T2G	3217106829010	Wire-wound inductor 8.2nH
616	L129	B2F	3210306221000	Multi-layer chip inductor 220nH
617	L130	T2G	3217106829010	Wire-wound inductor 8.2nH
618	L131	T1G	3217106829010	Wire-wound inductor 8.2nH
619	L133	T2H	3221505121010	Bead 120Ω/100MHZ
620	L201	T3H	3210406471000	Multi-layer chip inductor 470nH
621	L202	B4J	3221505121000	Bead 120Ω/100MHz
622	L204	B3I	3221505121000	Bead 120Ω/100MHz
623	L205	B3I	3221505121000	Bead 120Ω/100MHz
624	L301	B6H	3221505121010	Bead 120Ω/100MHZ
625	L308	B4J	3221505121010	Bead 120Ω/100MHZ
626	L309	B2I	3001060000000	0Ω
627	L310	B2I	3001060000000	0Ω
628	L313	B4K	3221505121010	Bead 120Ω/100MHZ
629	L401	T3G	3215099103000	Chip inductor 10uH
630	L402	B3E	3210406471000	Multi-layer chip inductor 470nH
631	L403	T3G	3221505121010	Bead 120Ω/100MHZ
632	L404	T3G	3215099103000	Chip inductor 10uH
633	L405	B3F	3221505121010	Bead 120Ω/100MHZ
634	L406	B4G	3297107391000	Wire-wound inductor 390nH
635	L407	T4H	3221505121010	Bead 120Ω/100MHZ
636	L408	T2G	3210407472000	Multi-layer chip inductor 4.7uH
637	L409	B3F	3213306222000	Multi-layer chip inductor 2.2uH
638	L410	T2H	3221505121010	Bead 120Ω/100MHZ
639	L411	T3H	3217107392000	Chip inductor 3.9uH
640	L412	T2G	3221505121010	Bead 120Ω/100MHZ
641	L413	B4G	3213306682000	Multi-layer chip inductor 6.8uH
642	L511	T3B	3210305829000	Multi-layer chip inductor 8.2nH
643	L512	T1C	3221505121000	Bead 120Ω/100MHz
644	L513	T2C	3221505121000	Bead 120Ω/100MHz
645	L514	B3C	3210305399000	Multi-layer chip inductor 3.9nH
646	L515	T1C	3221505121000	Bead 120Ω/100MHz
647	L516	T3B	3217105180000	Chip inductor 18nH
648	L517	T3B	3297106339000	Wire-wound inductor 3.3nH
649	L518	T3B	3297106339000	Wire-wound inductor 3.3nH
650	L519	T3B	3297106339000	Wire-wound inductor 3.3nH
651	L520	T3C	3215005330000	Multi-layer chip inductor 33nH
652	L522	T3C	3210305689000	Multi-layer chip inductor 6.8nH
653	L601	B4G	3221506181000	Bead 180Ω/100MHz
654	L602	B3E	3221506181000	Bead 180Ω/100MHz

No.	Ref No.	Print No.	Part No.	Description
655	L603	B3E	3221506181000	Bead 180Ω/100MHz
656	L605	B2E	3221506181000	Bead 180Ω/100MHz
657	L606	B2E	3221506181000	Bead 180Ω/100MHz
658	L607	T4F	3290299222000	Wire-wound inductor 2.2uH
659	L609	B5H	3221506181000	Bead 180Ω/100MHz
660	L610	T4G	3217099153000	Wire-wound inductor 15uH
661	L611	B5F	3221506181000	Bead 180Ω/100MHz
662	L612	B5G	3221506181000	Bead 180Ω/100MHz
663	L613	T4G	3290299222000	Wire-wound inductor 2.2uH
664	L614	T5H	3217099153000	Wire-wound inductor 15uH
665	L615	B5G	3221506181000	Bead 180Ω/100MHz
666	L616	B5G	3221506181000	Bead 180Ω/100MHz
667	L617	B5G	3221506181000	Bead 180Ω/100MHz
668	L620	B4F	3221506181000	Bead 180Ω/100MHz
669	L801	T4K	3221505121010	Bead 120Ω/100MHz
670	L802	T4K	3221506181000	Bead 180Ω/100MHz
671	L803	T4K	3221505121010	Bead 120Ω/100MHz
672	L804	T4K	3221505121010	Bead 120Ω/100MHz
673	L805	T4K	3221505121010	Bead 120Ω/100MHz
674	L816	T4D	3237199270000	Air-core coil 27nH
675	L820	T3K	3221506601000	Bead 600Ω 100MHz
676	L821	T2J	3221505121010	Bead 120Ω/100MHz
677	L822	T2J	3221505121010	Bead 120Ω/100MHz
678	L9001	B5E	3217106151000	Chip inductor 150nH
679	L9003	T3C	3233099330010	Air-core coil 33nH
680	L9004	T4B	3233099400020	Air-core coil 40nH
681	L9005	T4B	3233099330010	Air-core coil 33nH
682	L9006	T1D	3210306390000	Multi-layer chip inductor 39nH
683	L9007	T1D	3210306479000	Multi-layer chip inductor 4.7nH
684	L9008	T2D	3233099470000	Air-core coil 47nH
685	L9009	T2E	3210306680000	Multi-layer chip inductor 68nH
686	L9010	T2E	3210306680000	Multi-layer chip inductor 68nH
687	L9011	T2D	3210209102010	Wire-wound inductor 1 uH
688	L9012	T4D	3212107222000	Wire-wound inductor 2.2uH
689	L9013	T4C	3233099470000	Air-core coil 47nH
690	L9014	T2D	3221506121000	Bead 120Ω/100MHz
691	L9015	T5C	3237199270000	Air-core coil 27nH
692	L9016	T2C	3210306330000	Multi-layer chip inductor 33nH
693	L9017	T4E	3001060000000	0Ω
694	L9018	T4E	3001060000000	0Ω
695	L9019	T3D	3231301030000	Air-core inductor
696	L9020	B2F	3221505121010	Bead 120Ω/100MHz
697	L9021	T3D	3233099190020	Air-core coil 18.5nH
698	L9022	B5E	3210306561010	Multi-layer chip inductor 560nH

No.	Ref No.	Print No.	Part No.	Description
699	L9023	T3D	3233099190020	Air-core coil 18.5nH
700	L9024	T5C	3237199270000	Air-core coil 27nH
701	L9025	T5E	3217106120010	Wire-wound inductor 12nH
702	L9026	B3E	3217106151000	Chip inductor 150nH
703	L9027	B4E	3213306102000	Multi-layer chip inductor 1uH
704	L9028	T4C	3210306560000	Multi-layer chip inductor 56nH
705	L9029	T4D	3217106181010	Wire-wound inductor 180nH
706	L9030	T4D	3210106121000	Wire-wound inductor 120nH
707	L9032	B4E	3210306561010	Multi-layer chip inductor 560nH
708	L9033	B4E	3210406471000	Multi-layer chip inductor 470nH
709	L9035	T5D	3237199270000	Air-core coil 27nH
710	L9036	T4D	3001053390000	3.3Ω
711	Q102	B2F	3408002000000	NPN transistor
712	Q103	B2F	3403999000000	Composite transistor
713	Q104	B2G	3408002000080	NPN transistor
714	Q105	B3F	3403003000060	NPN transistor
715	Q106	B3F	3403999000000	Composite transistor
716	Q107	B3F	3403999000000	Composite transistor
717	Q108	B2G	3408002000080	NPN transistor
718	Q401	B3F	3403003000060	NPN transistor
719	Q403	B3F	3408002000000	NPN transistor
720	Q601	T4J	3403999000000	Composite transistor
721	Q604	B5H	3503020000030	N-MOSFET
722	Q605	B4F	3505990000040	P-MOSFET
723	Q606	B5F	3503020000030	N-MOSFET
724	Q802	T4J	3403009000010	Composite transistor
725	Q9001	T4D	3403014000020	Composite transistor
726	Q9002	T2E	3408002000000	NPN transistor
727	Q9003	T2D	3504990000040	PA MOSFET
728	Q9004	T1E	3406001000090	NPN transistor
729	Q9005	T1D	3504990000010	PA MOSFET
730	Q9006	B1E	3410001000020	NPN transistor
731	Q9007	B1E	3403008000010	BRT
732	Q9008	B1E	3403008000010	BRT
733	Q9010	T5D	3418001000010	NPN transistor
734	Q9017	B4E	3404006000000	NPN transistor
735	Q9018	B4E	3404006000000	NPN transistor
736	Q9019	B2E	3403999000000	Composite transistor
737	Q9020	B2D	3403999000000	Composite transistor
738	Q9021	T2F	3401001000490	PNP transistor
739	Q9023	B4F	3403999000000	Composite transistor
740	R1002	B5I	3001053390000	3.3Ω
741	R101	T2G	3001051020000	1KΩ
742	R102	B2F	3001051030050	10KΩ

No.	Ref No.	Print No.	Part No.	Description
743	R103	B2F	3101050300000	3PF
744	R104	T2F	3001051020000	1KΩ
745	R105	B2H	3001051030050	10KΩ
746	R106	B2F	3001055620000	5.6KΩ
747	R107	B2F	3001053310000	330Ω
748	R108	B2G	3001053320000	3.3KΩ
749	R109	B3H	3001051040000	100KΩ
750	R110	B2G	3001058220000	8.2KΩ
751	R111	B2G	3001051010000	100Ω
752	R112	B2F	3001055110000	510Ω
753	R113	T1G	3001051020000	1KΩ
754	R114	T2F	3001051020000	1KΩ
755	R115	B1G	3001051810010	180Ω
756	R116	B3F	3001054720000	4.7KΩ
757	R117	B2F	3001053320000	3.3KΩ
758	R118	B3G	3001058220000	8.2KΩ
759	R119	B2F	3001051010000	100Ω
760	R120	B2G	3001055130000	51KΩ
761	R121	B2G	3001051810010	180Ω
762	R122	B2G	3001051030050	10KΩ
763	R123	B2G	3001051040000	100KΩ
764	R124	B2G	3001052720010	2.7KΩ
765	R125	B2H	3001052720010	2.7KΩ
766	R128	B2H	3001052720010	2.7KΩ
767	R129	B2H	3001051030050	10KΩ
768	R130	T2G	3001051000000	10Ω
769	R131	T2H	3001051000000	10Ω
770	R132	T1G	3001055620000	5.6KΩ
771	R133	T2H	3001051030050	10KΩ
772	R134	T2H	3001051000000	10Ω
773	R135	T2G	3001051020000	1KΩ
774	R136	T1H	3001054700010	47Ω
775	R138	T1H	3001053300000	33Ω
776	R140	T1H	3001052220000	2.2KΩ
777	R141	T1G	3001051020000	1KΩ
778	R142	B2H	3001051030050	10KΩ
779	R143	B2F	3001053320000	3.3KΩ
780	R144	B3F	3001053320000	3.3KΩ
781	R145	B1H	3001053330000	33KΩ
782	R146	B1H	3001053330000	33KΩ
783	R147	B4I	3001051020000	1KΩ
784	R148	T2G	3001055620000	5.6KΩ
785	R149	T2F	3001051020000	1KΩ
786	R150	B3H	3001051020000	1KΩ

No.	Ref No.	Print No.	Part No.	Description
787	R203	T4H	3001051000000	10Ω
788	R206	B3J	3001051000000	10Ω
789	R207	T2J	3001053300000	33Ω
790	R208	T2J	3001051030050	10KΩ
791	R209	B4I	3001051000000	10Ω
792	R210	B3I	3001051030050	10KΩ
793	R211	B3I	3001050000000	0Ω
794	R212	B4I	3001051020000	1KΩ
795	R213	B4I	3001051020000	1KΩ
796	R220	T2I	3001051010000	100Ω
797	R221	T2I	3001051010000	100Ω
798	R222	T2I	3001051010000	100Ω
799	R251	T2J	3001051040000	100KΩ
800	R254	T2J	3001050000000	0Ω
801	R255	B2I	3001053300000	33Ω
802	R258	B6I	3001051030050	10KΩ
803	R259	B2I	3001053300000	33Ω
804	R260	B2I	3001051520000	1.5KΩ
805	R261	B2I	3001051530010	15KΩ
806	R262	B2I	3001051530010	15KΩ
807	R264	B2I	3001051030050	10KΩ
808	R266	T2J	3001053300000	33Ω
809	R267	T2J	3001051010000	100Ω
810	R268	B3H	3001051010000	100Ω
811	R269	T4G	3001051010000	100Ω
812	R270	B4J	3001051020000	1KΩ
813	R273	B4J	3001051020000	1KΩ
814	R276	B4I	3001051020000	1KΩ
815	R278	T4I	3001051030050	10KΩ
816	R281	B4I	3001051030050	10KΩ
817	R282	B4I	3001051030050	10KΩ
818	R301	B6I	3001051040000	100KΩ
819	R304	B6I	3001051040000	100KΩ
820	R305	B6G	3001051040000	100KΩ
821	R306	B6G	3001054720000	4.7KΩ
822	R307	B6G	3001054720000	4.7KΩ
823	R308	B6G	3001054720000	4.7KΩ
824	R327	T2I	3001053320000	3.3KΩ
825	R328	T2I	3001053320000	3.3KΩ
826	R329	T1I	3001051030050	10KΩ
827	R330	T1I	3001051030050	10KΩ
828	R333	T2J	3001051020000	1KΩ
829	R335	T2J	3001051850000	1.8MΩ
830	R336	T2J	3001051850000	1.8MΩ

No.	Ref No.	Print No.	Part No.	Description
831	R342	B4J	3001051040000	100KΩ
832	R343	B4J	3001051040000	100KΩ
833	R401	T2G	3001055100020	51Ω
834	R402	B4G	3001051030050	10KΩ
835	R403	B3G	3001051510000	150Ω
836	R404	T4G	3001051220000	1.2KΩ
837	R405	T4G	3001051030050	10KΩ
838	R407	B3G	3001058220000	8.2KΩ
839	R408	B3F	3001053910000	390Ω
840	R409	B3F	3001054720000	4.7KΩ
841	R410	B3F	3001051030050	10KΩ
842	R411	B3G	3001053910000	390Ω
843	R412	T3H	3001051040000	100KΩ
844	R413	T3H	3001051820000	1.8KΩ
845	R414	T3H	3001052720010	2.7KΩ
846	R415	T3H	3001051030050	10KΩ
847	R416	T3H	3001058210000	820Ω
848	R506	T2B	3001051040000	100KΩ
849	R507	T2B	3001051040000	100KΩ
850	R508	B2C	3001054720000	4.7KΩ
851	R509	T2C	3001051040000	100KΩ
852	R510	T3C	3001051000000	10Ω
853	R511	T2B	3001051000000	10Ω
854	R514	T2B	3001051030050	10KΩ
855	R515	T2B	3001051530010	15KΩ
856	R520	B1C	3001051030050	10KΩ
857	R521	B1C	3001051010000	100Ω
858	R522	B1C	3001051010000	100Ω
859	R523	B2C	3001050000000	0Ω
860	R525	T2B	3001050000000	0Ω
861	R528	T2C	3001050000000	0Ω
862	R601	T5G	3001053320010	3.3KΩ
863	R607	T4K	3001052030000	20KΩ
864	R611	B3E	3001051030050	10KΩ
865	R612	T4K	3001051030050	10KΩ
866	R613	B4F	3001051050000	1MΩ
867	R614	B4G	3001051040000	100KΩ
868	R615	B4F	3001053940010	390KΩ
869	R616	B5F	3001051050000	1MΩ
870	R617	T4G	3001056840000	680KΩ
871	R618	T4G	3001052040010	200kΩ
872	R619	B5F	3001054740010	470KΩ
873	R621	B4H	3001054730010	47KΩ
874	R623	T4G	3001054790010	4.7KΩ

No.	Ref No.	Print No.	Part No.	Description
875	R627	T5I	3001051020000	1KΩ
876	R630	T5I	3001051020000	1KΩ
877	R631	B5H	3001051530010	15KΩ
878	R632	B5H	3001051020000	1KΩ
879	R633	B4H	3001051040000	100KΩ
880	R634	B4H	3001052730000	27KΩ
881	R636	T5I	3001050000000	0Ω
882	R637	T5I	3001054730010	47KΩ
883	R701	B3H	3001051020000	1KΩ
884	R702	B3G	3001056830000	68KΩ
885	R704	B3H	3001051010040	100Ω
886	R705	B3H	3001051030010	10KΩ
887	R706	B3H	3001051030010	10KΩ
888	R707	B4G	3001053330000	33KΩ
889	R709	B3H	3001051040000	100KΩ
890	R710	B3H	3001051040000	100KΩ
891	R711	B4G	3001051030050	10KΩ
892	R712	B3G	3221505121010	Bead 120Ω/100MHZ
893	R713	B3G	3001051010040	100Ω
894	R714	B4G	3001051030050	10KΩ
895	R801	T4K	3001051000000	10Ω
896	R802	T4K	3001051840000	180KΩ
897	R803	T4K	3001051840000	180KΩ
898	R806	T4K	3001051000000	10Ω
899	R807	T4J	3001052030000	20KΩ
900	R808	T3K	3001051030050	10KΩ
901	R809	T3K	3001051030050	10KΩ
902	R810	T3K	3001051030050	10KΩ
903	R811	T3K	3001051030050	10KΩ
904	R812	T3J	3001051840000	180KΩ
905	R813	T3J	3001051840000	180KΩ
906	R814	T4J	3001051840000	180KΩ
907	R823	T2J	3001051030050	10KΩ
908	R824	T2K	3001058220010	8.2KΩ
909	R826	T2K	3001054330000	43KΩ
910	R827	T3K	3001051020000	1KΩ
911	R828	T2K	3001051530010	15KΩ
912	R829	T3J	3001054740010	470KΩ
913	R830	T2K	3001053330000	33KΩ
914	R831	B4K	3001051020000	1KΩ
915	R832	T2K	3001051020000	1KΩ
916	R833	B4K	3001051020000	1KΩ
917	R834	T3K	3001051020000	1KΩ
918	R835	B3J	3001051040000	100KΩ

No.	Ref No.	Print No.	Part No.	Description
919	R836	T5J	3001050000000	0Ω
920	R837	T5J	3001051030050	10KΩ
921	R838	T2K	3001051020000	1KΩ
922	R839	T3J	3001051030050	10KΩ
923	R840	T5I	3001051030050	10KΩ
924	R841	T5J	3001051030050	10KΩ
925	R9001	B5E	3001052710010	270Ω
926	R9002	T2E	3001055620000	5.6KΩ
927	R9003	B5E	3001052710010	270Ω
928	R9004	T3D	3233099449000	Air-core coil 4.4nH
929	R9005	B5E	3001055690000	5.6Ω
930	R9006	T3B	3001051030050	10KΩ
931	R9007	T2E	3001058200000	82Ω
932	R9008	T1E	3001051520000	1.5KΩ
933	R9009	T1D	3001055600000	56Ω
934	R9011	T5D	3001051020000	1KΩ
935	R9012	T2E	3001051010000	100Ω
936	R9013	T2E	3001051010000	100Ω
937	R9015	T2E	3001053310000	330Ω
938	R9016	T2D	3001051510000	150Ω
939	R9017	T2D	3001051010000	100Ω
940	R9018	T2E	3001056810000	680Ω
941	R9019	T2E	3001053320000	3.3KΩ
942	R9020	T1F	3001054720000	4.7KΩ
943	R9021	T1E	3001054700010	47Ω
944	R9022	T2E	3001052200000	22Ω
945	R9023	T2D	3001053920000	3.9KΩ
946	R9024	T2D	3001056820000	6.8KΩ
947	R9025	T4D	3001052710010	270Ω
948	R9027	T2D	3001058220000	8.2KΩ
949	R9028	T4D	3001052710010	270Ω
950	R9029	T2D	3001053910000	390Ω
951	R9030	T2E	3001051000000	10Ω
952	R9031	T2D	3001052210000	220Ω
953	R9032	T4C	3001052730000	27KΩ
954	R9033	B2D	3001051020000	1KΩ
955	R9034	T5D	3001055620000	5.6KΩ
956	R9035	T1F	3001051030050	10KΩ
957	R9036	B2E	3001051030050	10KΩ
958	R9037	T4D	3001053330000	33KΩ
959	R9038	B2D	3001051020000	1KΩ
960	R9039	B1E	3001051010000	100Ω
961	R9040	B4H	3001051020000	1KΩ
962	R9041	B1E	3001054720000	4.7KΩ

No.	Ref No.	Print No.	Part No.	Description
963	R9042	T2F	3001053320000	3.3KΩ
964	R9043	B2D	3001053330000	33KΩ
965	R9044	T2F	3001053320000	3.3KΩ
966	R9045	B2D	3001051050000	1MΩ
967	R9046	B2D	3001054740010	470KΩ
968	R9047	B1D	3001053330000	33KΩ
969	R9048	B2D	3001051540000	150KΩ
970	R9049	T5D	3001055610000	560Ω
971	R9050	B1D	3001054730010	47KΩ
972	R9051	T4D	3001051040000	100KΩ
973	R9052	T5D	3001051040000	100KΩ
974	R9053	B3D	3099080398010	0.39Ω
975	R9054	B3D	3099080398010	0.39Ω
976	R9055	B3D	3099080398010	0.39Ω
977	R9057	B1D	3001051540000	150KΩ
978	R9058	B1D	3001051050000	1MΩ
979	R9059	B1D	3001054740010	470KΩ
980	R9060	T4D	3001051040000	100KΩ
981	R9061	T5C	3001051040000	100KΩ
982	R9062	T5C	3001051040000	100KΩ
983	R9063	T4D	3001053310000	330Ω
984	R9065	T5C	3001051040000	100KΩ
985	R9066	B4E	3001051520000	1.5KΩ
986	R9067	B3E	3001056820000	6.8KΩ
987	R9068	B2E	3001053320000	3.3KΩ
988	R9071	B4E	3001053310000	330Ω
989	R9075	B4E	3001055100020	51Ω
990	R9078	B4E	3001053320000	3.3KΩ
991	R9079	B4E	3001053330000	33KΩ
992	R9081	B4E	3001051030050	10KΩ
993	R9084	B4E	3001055630000	56KΩ
994	R9085	B4E	3001051040000	100KΩ
995	R9091	T2E	3001051520000	1.5KΩ
996	R9095	T2F	3001053320000	3.3KΩ
997	R9096	T2F	3001052720010	2.7KΩ
998	R9097	T2E	3001053320000	3.3KΩ
999	R9098	T2E	3001053320000	3.3KΩ
1000	R9102	T2C	3001050000000	0Ω
1001	RN101	B1H	3005054730000	47K
1002	RN258	B3I	3005051010010	100Ω
1003	RN502	T2B	3005051040000	100KΩ
1004	RN503	T2B	3005051040000	100KΩ
1005	RT601	T5G	3003061040000	Thermistor
1006	T9001	T5E	5406000000200	Transformer

No.	Ref No.	Print No.	Part No.	Description
1007	T9002	T4E	5406000000200	Transformer
1008	U1001	B5I	3609999011080	Bluetooth chip
1009	U1002	B5J	3801244160000	Ceramic filter
1010	U102	B2H	3605002057290	Operational amplifier
1011	U103	T2H	3604019000000	PLL IC
1012	U104	B1H	3616093000000	Switch IC
1013	U105	B2F	3609003999000	MMIC amplifier
1014	U201	B3J	3610010000010	OMAP5912ZZG
1015	U242	B2K	3612044000010	Memory
1016	U244	B2J	3612999000290	Memory
1017	U310	T1I	3609042000000	Sensor
1018	U311	T2J	3609006006030	Real time clock
1019	U325	B4J	3805000000030	EMI filter
1020	U326	B4J	3805000000030	EMI filter
1021	U327	B4J	3805000000030	EMI filter
1022	U328	T4I	3805000000030	EMI filter
1023	U329	T4J	3805000000030	EMI filter
1024	U330	T4I	3805000000030	EMI filter
1025	U401	T3G	3603999000000	IF processor
1026	U501	B2C	3609999008540	GPS chip
1027	U502	T3B	3609008000000	GPS low-noise amplifier
1028	U504	T1C	3608015005620	Power management IC
1029	U505	T2C	3701163640010	TCXO 16.369MHz
1030	U510	T1C	3608015005610	Power management IC
1031	U511	T2C	3626006000010	Reset IC
1032	U601	T4G	3608011000050	Power management IC
1033	U604	B3E	3608020005750	Power management IC
1034	U605	B2E	3608020005750	Power management IC
1035	U606	B5G	3608006000040	Power management IC
1036	U607	T5I	3609010000170	Reset IC
1037	U608	B4G	3608015000220	Power management IC
1038	U609	B5G	3608006000000	Power management IC
1039	U610	B5G	3608006000030	Power management IC
1040	U611	T5G	3608011000050	Power management IC
1041	U612	B4G	3608006000000	Power management IC
1042	U701	B4H	3606010000010	D/A converter
1043	U801	T4K	3602023005740	Audio amplification IC
1044	U820	T3K	3616037000020	Switch IC
1045	U821	T2K	3613010000000	Baseband processor
1046	U9002	B1D	3605025000020	Operational amplifier
1047	U9003	B2D	5404000000060	Sensor
1048	W1001	B5J	5499000000210	Bluetooth antenna
1049	X1001	B4I	3701002660070	Crystal 26MHz
1050	X101	T2H	3701019250030	TCXO 19.2MHZ

No.	Ref No.	Print No.	Part No.	Description
1051	X201	T1J	3701327710010	Crystal 32.768KHz
1052	X203	T3H	3701019250040	TCXO 19.2MHz
1053	Z304	B4K	3805000000040	EMI filter
1054	Z305	T5I	3805000000040	EMI filter
1055	Z306	B4K	3805000000040	EMI filter
1056	Z502	T3C	3804157560000	GPS filter
1057	Z503	T3B	3804157560000	GPS filter
1058	Z9001	B5E	3802448540040	Crystal filter
1061	/	/	/	Main board

7.1.2 UHF1

No.	Ref No.	Print No.	Part No.	Description
1	A	T4F	6202502000000	DC shielding mask
2	ANT1	T3A	6202482000010	Spring plate for antenna
3	B	B3B	6202551000000	GPS shielding mask
4	C	B5E	6202553000000	IF shielding mask
5	C1001	B5J	3101051050160	Chip capacitor
6	C1003	B5J	3101051050000	Chip capacitor
7	C1004	B5J	3101054730040	Chip capacitor
8	C1005	B5J	3101051050000	Chip capacitor
9	C1006	B5J	3101051540000	Chip capacitor
10	C1007	B5J	3101051050000	Chip capacitor
11	C1009	B4I	3101052230000	Chip capacitor
12	C101	B2F	3101054710010	Chip capacitor
13	C1010	B4J	3101051200020	Chip capacitor
14	C1011	B4I	3101051500020	Chip capacitor
15	C1012	B5I	3101064750010	Chip capacitor
16	C1014	B5I	3101051050000	Chip capacitor
17	C1015	B5I	3101051050160	Chip capacitor
18	C1016	B5I	3101051050160	Chip capacitor
19	C1017	B5I	3101051050160	Chip capacitor
20	C1018	B5J	3101051050160	Chip capacitor
21	C1019	B4J	3101051050000	Chip capacitor
22	C102	B2G	3101050300000	Chip capacitor
23	C1020	B4I	3101051050000	Chip capacitor
24	C1021	B5I	3101051050000	Chip capacitor
25	C103	B3G	3101050300000	Chip capacitor
26	C104	B2F	3101054710010	Chip capacitor
27	C105	B1H	3101051040060	Chip capacitor
28	C106	B2G	3101050500010	Chip capacitor
29	C107	B2F	3101050800000	Chip capacitor
30	C108	B2G	3101050700010	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
31	C109	B2G	3101050700010	Chip capacitor
32	C110	B2G	3101050900000	Chip capacitor
33	C111	T2F	3101050300000	Chip capacitor
34	C112	T2F	3101050300000	Chip capacitor
35	C114	T2F	3101050700010	Chip capacitor
36	C115	T2F	3101050700010	Chip capacitor
37	C116	T2F	3101050900000	Chip capacitor
38	C117	T2G	3101051040060	Chip capacitor
39	C118	T2F	3101054710010	Chip capacitor
40	C119	B2F	3101051000020	Chip capacitor
41	C120	T2F	3101054710010	Chip capacitor
42	C121	T2F	3101051040060	Chip capacitor
43	C122	T2G	3101061590010	Chip capacitor
44	C123	T1G	3101061000000	Chip capacitor
45	C124	B2G	3101050600010	Chip capacitor
46	C125	T2G	3101060600010	Chip capacitor
47	C126	B2G	3101051040060	Chip capacitor
48	C127	B2G	3101054710010	Chip capacitor
49	C128	T1G	3101060600010	Chip capacitor
50	C129	T2G	3101062490000	Chip capacitor
51	C130	T2G	3101063300000	Chip capacitor
52	C132	T2G	3101054700010	Chip capacitor
53	C133	T2G	3101060800010	Chip capacitor
54	C134	T2G	3101061500010	Chip capacitor
55	C136	B2F	3101054710010	Chip capacitor
56	C137	T1G	3101051020010	Chip capacitor
57	C138	B1G	3101051040060	Chip capacitor
58	C139	B1G	3101054710010	Chip capacitor
59	C140	B2F	3101062250000	Chip capacitor
60	C141	B2G	3101051040060	Chip capacitor
61	C142	B2G	3101054710010	Chip capacitor
62	C143	B2G	3101060100010	Chip capacitor
63	C144	B2G	3101060200010	Chip capacitor
64	C145	B2G	3101061000000	Chip capacitor
65	C146	B2G	3101060900010	Chip capacitor
66	C147	B2G	3101060200010	Chip capacitor
67	C148	B2G	3101062700010	Chip capacitor
68	C149	B2G	3101061290020	Chip capacitor
69	C151	B2G	3101054700010	Chip capacitor
70	C152	B2H	3101060300010	Chip capacitor
71	C153	B1G	3101061300000	Chip capacitor
72	C154	B3G	3101051050000	Chip capacitor
73	C156	B1H	3101051020010	Chip capacitor
74	C157	B2G	3001060000000	Chip resistor

No.	Ref No.	Print No.	Part No.	Description
75	C158	B3H	3001060000000	Chip resistor
76	C159	B2H	3101055610000	Chip capacitor
77	C160	B2H	3101052220010	Chip capacitor
78	C161	B1G	3101051020010	Chip capacitor
79	C162	B1H	3101051020010	Chip capacitor
80	C163	T2H	3101051020010	Chip capacitor
81	C164	T2H	3101051040060	Chip capacitor
82	C166	T1H	3101051040060	Chip capacitor
83	C167	T2H	3101051040060	Chip capacitor
84	C168	T2H	3101051010030	Chip capacitor
85	C169	T2H	3101051040060	Chip capacitor
86	C170	T2H	3101051010030	Chip capacitor
87	C172	T1H	3101051020010	Chip capacitor
88	C173	T2H	3101051010030	Chip capacitor
89	C174	T2H	3101051030020	Chip capacitor
90	C175	T1H	3101052710000	Chip capacitor
91	C176	T1H	3101053310030	Chip capacitor
92	C177	T1G	3101073340010	Chip capacitor
93	C178	T1H	3101073340010	Chip capacitor
94	C179	T2H	3101051040060	Chip capacitor
95	C180	T1H	3101051020010	Chip capacitor
96	C182	B2H	3101051040060	Chip capacitor
97	C183	T1H	3101051020010	Chip capacitor
98	C184	B1H	3101051020010	Chip capacitor
99	C185	T1H	3104072250060	Tantalum capacitor
100	C201	B4I	3101051520000	Chip capacitor
101	C202	T3H	3101051020010	Chip capacitor
102	C203	T1J	3101052200010	Chip capacitor
103	C204	T1J	3101052200010	Chip capacitor
104	C206	T3H	3101051020010	Chip capacitor
105	C207	T3H	3101052710000	Chip capacitor
106	C208	T3H	3101053310030	Chip capacitor
107	C209	T4H	3101053920000	Chip capacitor
108	C210	T4H	3101052240080	Chip capacitor
109	C211	T3H	3101051020010	Chip capacitor
110	C212	B3I	3101052240080	Chip capacitor
111	C213	B2J	3101051040060	Chip capacitor
112	C214	B2J	3101051040060	Chip capacitor
113	C215	B4I	3101051030020	Chip capacitor
114	C216	B3J	3101052240080	Chip capacitor
115	C217	T2J	3101054700010	Chip capacitor
116	C218	B4J	3101052240080	Chip capacitor
117	C219	B4J	3101051040060	Chip capacitor
118	C220	B2J	3101051040060	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
119	C221	B4I	3101052240080	Chip capacitor
120	C222	B4I	3101051050000	Chip capacitor
121	C223	B3I	3101051520000	Chip capacitor
122	C224	B4J	3101072260000	Chip capacitor
123	C225	T1J	3110997090000	Super capacitor
124	C226	B3J	3101052240080	Chip capacitor
125	C227	B3K	3101053920000	Chip capacitor
126	C228	B3J	3101054710010	Chip capacitor
127	C229	B3J	3101051050000	Chip capacitor
128	C230	B3J	3101052240080	Chip capacitor
129	C231	B3I	3101053920000	Chip capacitor
130	C232	B4J	3101054710010	Chip capacitor
131	C233	T2I	3101054700010	Chip capacitor
132	C234	B2I	3101052240080	Chip capacitor
133	C235	B2J	3101072260000	Chip capacitor
134	C236	B2J	3101051050000	Chip capacitor
135	C237	B2J	3101053920000	Chip capacitor
136	C238	B4J	3101051040060	Chip capacitor
137	C239	B3I	3101051040060	Chip capacitor
138	C240	B3I	3101051040060	Chip capacitor
139	C242	T2J	3101052240080	Chip capacitor
140	C243	B3J	3101051040060	Chip capacitor
141	C244	B3K	3101051040060	Chip capacitor
142	C245	B2J	3101053920000	Chip capacitor
143	C246	B3J	3101051520000	Chip capacitor
144	C247	B3K	3101051050000	Chip capacitor
145	C248	B4I	3101053920000	Chip capacitor
146	C249	B2I	3101053920000	Chip capacitor
147	C250	B3I	3101051040060	Chip capacitor
148	C251	B3I	3101051030020	Chip capacitor
149	C252	B4I	3101054700010	Chip capacitor
150	C253	B4I	3101051040060	Chip capacitor
151	C274	B6H	3101051200020	Chip capacitor
152	C278	B3H	3101054700010	Chip capacitor
153	C279	B3H	3101054700010	Chip capacitor
154	C280	B3H	3101054700010	Chip capacitor
155	C281	B4H	3101054710010	Chip capacitor
156	C282	T3J	3101053920000	Chip capacitor
157	C283	B3I	3101054700010	Chip capacitor
158	C284	T2I	3101052710000	Chip capacitor
159	C285	T2I	3101055610000	Chip capacitor
160	C286	T2I	3101055610000	Chip capacitor
161	C287	T2I	3101054710010	Chip capacitor
162	C288	B4H	3101054710010	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
163	C289	T2I	3101053920000	Chip capacitor
164	C290	B4I	3101053920000	Chip capacitor
165	C291	B4J	3101054710010	Chip capacitor
166	C292	B4I	3101054710010	Chip capacitor
167	C293	B3I	3101054710010	Chip capacitor
168	C294	B4J	3101054710010	Chip capacitor
169	C295	B4I	3101054710010	Chip capacitor
170	C297	B4I	3101054710010	Chip capacitor
171	C298	B4I	3101054710010	Chip capacitor
172	C299	B4I	3101054710010	Chip capacitor
173	C300	T2J	3101051010030	Chip capacitor
174	C301	T3J	3101054710010	Chip capacitor
175	C302	T3J	3101054710010	Chip capacitor
176	C303	T2J	3101054710010	Chip capacitor
177	C304	T2J	3101052710000	Chip capacitor
178	C305	T2J	3101054710010	Chip capacitor
179	C306	B6H	3101051040060	Chip capacitor
180	C307	T2J	3101054710010	Chip capacitor
181	C308	T2J	3101052710000	Chip capacitor
182	C309	T2J	3101052710000	Chip capacitor
183	C310	T1I	3101051040060	Chip capacitor
184	C311	T2I	3101051040060	Chip capacitor
185	C315	T2J	3101051040060	Chip capacitor
186	C329	B4J	3101051040060	Chip capacitor
187	C331	B4K	3101051040060	Chip capacitor
188	C332	T5I	3101051050000	Chip capacitor
189	C420	B3E	3101051200020	Chip capacitor
190	C422	T2G	3101051040060	Chip capacitor
191	C423	B3F	3101051050000	Chip capacitor
192	C425	B4G	3101051800010	Chip capacitor
193	C426	T3G	3101051030020	Chip capacitor
194	C427	T3G	3101052210010	Chip capacitor
195	C428	T3G	3101051010030	Chip capacitor
196	C429	T3G	3101051010030	Chip capacitor
197	C430	T3G	3101051040060	Chip capacitor
198	C431	T3G	3101052220010	Chip capacitor
199	C433	T3G	3101051040060	Chip capacitor
200	C434	T3G	3101051040060	Chip capacitor
201	C436	T3G	3101051030020	Chip capacitor
202	C437	B4G	3101065620010	Chip capacitor
203	C438	T3G	3101051010030	Chip capacitor
204	C439	T3H	3101051010030	Chip capacitor
205	C440	T3H	3101051030020	Chip capacitor
206	C441	T3H	3101051040060	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
207	C442	T3H	3101051030020	Chip capacitor
208	C443	T3H	3101053900000	Chip capacitor
209	C445	T3G	3101051040060	Chip capacitor
210	C446	T3G	3101051040060	Chip capacitor
211	C447	T3G	3101051030020	Chip capacitor
212	C448	B3G	3101053300000	Chip capacitor
213	C449	T3G	3101051030020	Chip capacitor
214	C450	T4G	3101061230000	Chip capacitor
215	C452	T4H	3101050600010	Chip capacitor
216	C453	T3G	3101051030020	Chip capacitor
217	C454	T4G	3101051030020	Chip capacitor
218	C455	T3H	3101063320000	Chip capacitor
219	C456	B4G	3101064790010	Chip capacitor
220	C457	B3E	3101051030020	Chip capacitor
221	C458	B3G	3101061800000	Chip capacitor
222	C459	B4F	3101054710010	Chip capacitor
223	C460	B3G	3101063000010	Chip capacitor
224	C461	B3G	3101063300000	Chip capacitor
225	C462	B3F	3101051040060	Chip capacitor
226	C463	T3G	3101072240000	Chip capacitor
227	C464	B3G	3101052200010	Chip capacitor
228	C465	B4F	3101051040060	Chip capacitor
229	C466	T4G	3101051040060	Chip capacitor
230	C467	B4F	3101062250000	Chip capacitor
231	C468	T2H	3104076840020	Tantalum capacitor
232	C470	T4G	3101052710000	Chip capacitor
233	C471	T4G	3101052710000	Chip capacitor
234	C472	T3H	3101062250000	Chip capacitor
235	C473	T4G	3101052710000	Chip capacitor
236	C474	B3F	3101054710010	Chip capacitor
237	C518	T3B	3101051590000	Chip capacitor
238	C519	T3B	3199050758000	Chip capacitor
239	C520	T3B	3101050100030	Chip capacitor
240	C521	T3B	3101051590000	Chip capacitor
241	C530	T3C	3101051010030	Chip capacitor
242	C531	B3C	3101052200010	Chip capacitor
243	C532	B3B	3101050300000	Chip capacitor
244	C533	T2C	3101051020010	Chip capacitor
245	C534	B2C	3101051020010	Chip capacitor
246	C535	B2C	3101051020010	Chip capacitor
247	C536	B3C	3101051800010	Chip capacitor
248	C537	B3C	3101053300000	Chip capacitor
249	C538	B3C	3101051390010	Chip capacitor
250	C539	T1C	3101051030020	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
251	C540	B1C	3101051020010	Chip capacitor
252	C541	B2C	3101051800010	Chip capacitor
253	C542	B1B	3101051800010	Chip capacitor
254	C543	B2C	3101051030020	Chip capacitor
255	C544	B3B	3101051020010	Chip capacitor
256	C545	T2C	3101052240080	Chip capacitor
257	C546	B2C	3101051040060	Chip capacitor
258	C547	B1B	3101051040060	Chip capacitor
259	C549	T1C	3101062250000	Chip capacitor
260	C550	T2C	3101062250000	Chip capacitor
261	C551	T1C	3101051040060	Chip capacitor
262	C552	T2C	3101051040060	Chip capacitor
263	C553	T2C	3101051010030	Chip capacitor
264	C554	T3C	3101051030020	Chip capacitor
265	C555	T3C	3101051020010	Chip capacitor
266	C556	B3C	3101051050000	Chip capacitor
267	C557	B2C	3101062250000	Chip capacitor
268	C559	T1C	3101051050000	Chip capacitor
269	C560	T3C	3101051040060	Chip capacitor
270	C561	T2C	3101051040060	Chip capacitor
271	C601	B4H	3101062250000	Chip capacitor
272	C602	B3E	3101051010030	Chip capacitor
273	C603	B3E	3101074750000	Chip capacitor
274	C604	B2E	3101051040060	Chip capacitor
275	C605	B2E	3101051050000	Chip capacitor
276	C606	B2E	3101062250000	Chip capacitor
277	C607	B2E	3101051040060	Chip capacitor
278	C608	B3F	3101051040060	Chip capacitor
279	C614	B3D	3101055690020	Chip capacitor
280	C615	B1D	3101051040060	Chip capacitor
281	C616	B3D	3101051010030	Chip capacitor
282	C617	B2E	3101051040060	Chip capacitor
283	C618	B3E	3101051040060	Chip capacitor
284	C619	T5G	3101051030020	Chip capacitor
285	C620	B2E	3101051010030	Chip capacitor
286	C621	B2E	3101074750000	Chip capacitor
287	C622	B2E	3101051040060	Chip capacitor
288	C623	B2E	3101051050000	Chip capacitor
289	C624	B2E	3101062250000	Chip capacitor
290	C625	B2E	3101051040060	Chip capacitor
291	C626	B2E	3101051040060	Chip capacitor
292	C627	T4G	3110081060000	Capacitor
293	C628	T5F	3101062240000	Chip capacitor
294	C630	T4F	3101051040060	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
295	C634	B5G	3101074750000	Chip capacitor
296	C635	B5H	3101051040060	Chip capacitor
297	C636	T4H	3110071060000	Capacitor
298	C638	T4H	3101053920000	Chip capacitor
299	C639	T5I	3101051040060	Chip capacitor
300	C640	T5I	3101052240080	Chip capacitor
301	C641	B4F	3101062250000	Chip capacitor
302	C642	B5F	3101051040060	Chip capacitor
303	C644	T4G	3101052200010	Chip capacitor
304	C645	T4G	3101052210010	Chip capacitor
305	C647	B5G	3101051040060	Chip capacitor
306	C648	B5G	3101061050000	Chip capacitor
307	C649	B5H	3101062250000	Chip capacitor
308	C650	B5H	3101053920000	Chip capacitor
309	C651	B5G	3101051040060	Chip capacitor
310	C652	B4F	3101051040060	Chip capacitor
311	C654	T5G	3110081060000	Capacitor
312	C655	T4F	3101062240000	Chip capacitor
313	C656	B5G	3101051040060	Chip capacitor
314	C658	T5G	3101051040060	Chip capacitor
315	C659	B5G	3101051040060	Chip capacitor
316	C660	B5H	3101062250000	Chip capacitor
317	C661	T5H	3110071060000	Capacitor
318	C662	B5H	3101053920000	Chip capacitor
319	C663	B4F	3101062250000	Chip capacitor
320	C666	T5H	3101053920000	Chip capacitor
321	C668	B4G	3101051040060	Chip capacitor
322	C669	B4G	3101061050000	Chip capacitor
323	C670	B4H	3101062250000	Chip capacitor
324	C671	B4H	3101051040060	Chip capacitor
325	C672	T5G	3101052200010	Chip capacitor
326	C673	T4H	3110994760000	Capacitor
327	C674	T4G	3101052210010	Chip capacitor
328	C677	B5G	3101052240080	Chip capacitor
329	C678	B5G	3101062240000	Chip capacitor
330	C679	T4H	3101051040060	Chip capacitor
331	C680	T4H	3101054710010	Chip capacitor
332	C681	T5H	3101054710010	Chip capacitor
333	C682	T5H	3101051040060	Chip capacitor
334	C683	B5G	3101061050000	Chip capacitor
335	C684	B4H	3101053920000	Chip capacitor
336	C685	B5F	3101054710010	Chip capacitor
337	C686	B5F	3101053920000	Chip capacitor
338	C687	B5H	3101053920000	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
339	C688	B4G	3101051040060	Chip capacitor
340	C689	B4F	3101054710010	Chip capacitor
341	C690	B4F	3101051040060	Chip capacitor
342	C691	T4J	3101054710010	Chip capacitor
343	C692	B4F	3101053920000	Chip capacitor
344	C693	B5F	3101054740020	Chip capacitor
345	C702	B4H	3101052240080	Chip capacitor
346	C704	B3H	3101054710010	Chip capacitor
347	C705	B3G	3101051020010	Chip capacitor
348	C706	B4H	3101051050000	Chip capacitor
349	C707	B4G	3101051050000	Chip capacitor
350	C708	B3H	3101054710010	Chip capacitor
351	C711	B3G	3101051050000	Chip capacitor
352	C712	B3H	3101051050000	Chip capacitor
353	C713	B4G	3110061050000	Capacitor
354	C801	T4K	3101051040060	Chip capacitor
355	C802	T3K	3101071060010	Chip capacitor
356	C803	T4K	3101052240030	Chip capacitor
357	C804	T4K	3101052710000	Chip capacitor
358	C805	T4K	3101051010030	Chip capacitor
359	C806	T4K	3101051010030	Chip capacitor
360	C808	T3K	3101053920000	Chip capacitor
361	C809	T4K	3101051040060	Chip capacitor
362	C810	T3K	3101051040060	Chip capacitor
363	C813	T3K	3101053920000	Chip capacitor
364	C816	T3J	3101061050060	Chip capacitor
365	C817	T3J	3101051040060	Chip capacitor
366	C818	T4J	3101056830040	Chip capacitor
367	C819	T4K	3101051030020	Chip capacitor
368	C820	T3K	3101051040060	Chip capacitor
369	C821	T2J	3101052240080	Chip capacitor
370	C822	T2K	3101051030020	Chip capacitor
371	C824	T2J	3101052240080	Chip capacitor
372	C825	T3K	3101062250000	Chip capacitor
373	C826	T3K	3101051030020	Chip capacitor
374	C827	T2K	3101051030020	Chip capacitor
375	C828	T2K	3101062250000	Chip capacitor
376	C831	T2K	3101051050000	Chip capacitor
377	C832	T3K	3101051050000	Chip capacitor
378	C833	T3K	3101051040060	Chip capacitor
379	C834	T3J	3101051050000	Chip capacitor
380	C835	B4K	3101054710010	Chip capacitor
381	C836	T2K	3101051040060	Chip capacitor
382	C837	T3J	3101051030020	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
383	C838	T2K	3101054710010	Chip capacitor
384	C839	T3K	3101051040060	Chip capacitor
385	C840	T5J	3101052710000	Chip capacitor
386	C841	T3K	3101053920000	Chip capacitor
387	C842	T5J	3101051050000	Chip capacitor
388	C843	T5I	3101052710000	Chip capacitor
389	C844	T3K	3101053920000	Chip capacitor
390	C845	T2K	3101051040060	Chip capacitor
391	C846	T5J	3101053920000	Chip capacitor
392	C847	T2K	3101051050000	Chip capacitor
393	C848	T5I	3101053920000	Chip capacitor
394	C849	T5I	3101052710000	Chip capacitor
395	C850	T2K	3101051040060	Chip capacitor
396	C851	B4K	3101054710010	Chip capacitor
397	C852	T5J	3101051050000	Chip capacitor
398	C853	T5J	3101052710000	Chip capacitor
399	C9001	T5C	3101051020010	Chip capacitor
400	C9002	T3D	3101051010030	Chip capacitor
401	C9003	T4C	3101060100010	Chip capacitor
402	C9004	T4B	3101060200010	Chip capacitor
403	C9006	T3D	3101060800010	Chip capacitor
404	C9009	T3D	3101060800010	Chip capacitor
405	C9011	T3D	3101061010010	Chip capacitor
406	C9012	T3D	3101064300000	Chip capacitor
407	C9013	T4C	3101064710000	Chip capacitor
408	C9014	T1C	3101050900000	Chip capacitor
409	C9015	T3D	3101060900010	Chip capacitor
410	C9018	T2E	3101054710010	Chip capacitor
411	C9019	T3D	3101060700020	Chip capacitor
412	C9022	T3D	3101067590010	Chip capacitor
413	C9023	T3B	3101060700020	Chip capacitor
414	C9024	T3B	3101060800010	Chip capacitor
415	C9025	T2E	3101051000020	Chip capacitor
416	C9026	T2E	3101050800000	Chip capacitor
417	C9027	T1D	3101051200020	Chip capacitor
418	C9028	T1D	3101050700010	Chip capacitor
419	C9029	T1D	3101054710010	Chip capacitor
420	C9030	T3D	3101060300010	Chip capacitor
421	C9031	T4C	3101060900010	Chip capacitor
422	C9032	T1D	3101050800000	Chip capacitor
423	C9033	T2E	3101054710010	Chip capacitor
424	C9034	T2D	3101054710010	Chip capacitor
425	C9035	T1C	3101052200010	Chip capacitor
426	C9037	T1E	3101054710010	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
427	C9038	T2D	3101051040060	Chip capacitor
428	C9039	T2D	3101054710010	Chip capacitor
429	C9040	T4C	3101050700010	Chip capacitor
430	C9041	T2D	3101051040060	Chip capacitor
431	C9042	T4D	3101054710010	Chip capacitor
432	C9043	T4D	3101051040060	Chip capacitor
433	C9044	T2D	3101051030020	Chip capacitor
434	C9045	T2E	3101054710010	Chip capacitor
435	C9046	T2E	3101051040060	Chip capacitor
436	C9047	T2D	3101054710010	Chip capacitor
437	C9048	T2D	3101054710010	Chip capacitor
438	C9049	T2D	3101051040060	Chip capacitor
439	C9050	T2D	3101054710010	Chip capacitor
440	C9051	B2D	3104082260060	Tantalum capacitor
441	C9052	T4C	3101054710010	Chip capacitor
442	C9054	T4C	3101054710010	Chip capacitor
443	C9057	T4D	3101051040060	Chip capacitor
444	C9059	B2D	3101051020010	Chip capacitor
445	C9060	B1D	3101061020000	Chip capacitor
446	C9061	B2D	3101051020010	Chip capacitor
447	C9063	B1D	3101054720000	Chip capacitor
448	C9064	B2D	3101051020010	Chip capacitor
449	C9065	B1D	3101051520000	Chip capacitor
450	C9066	B2D	3101051030020	Chip capacitor
451	C9067	B1D	3101051020010	Chip capacitor
452	C9069	B2D	3101054710010	Chip capacitor
453	C9071	B1D	3101051040060	Chip capacitor
454	C9075	T2F	3101054710010	Chip capacitor
455	C9080	T4D	3101051040060	Chip capacitor
456	C9081	T4D	3101054710010	Chip capacitor
457	C9085	B4E	3101051020010	Chip capacitor
458	C9086	B3E	3101051040060	Chip capacitor
459	C9087	T4C	3101054730000	Chip capacitor
460	C9088	T4C	3101051020010	Chip capacitor
461	C9089	T4D	3101051020010	Chip capacitor
462	C9090	B4E	3101051030020	Chip capacitor
463	C9091	B4E	3101051040060	Chip capacitor
464	C9092	T2F	3101051040060	Chip capacitor
465	C9093	T4D	3101051020010	Chip capacitor
466	C9095	T2E	3101051050000	Chip capacitor
467	C9096	T2E	3101054710010	Chip capacitor
468	C9097	B4E	3101051040060	Chip capacitor
469	C9098	T2F	3101054710010	Chip capacitor
470	C9099	B3E	3101051000020	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
471	C9100	T4D	3101052790000	Chip capacitor
472	C9101	B5E	3101051000020	Chip capacitor
473	C9102	T2F	3101051050000	Chip capacitor
474	C9103	B3E	3101051020010	Chip capacitor
475	C9104	B3E	3101051040060	Chip capacitor
476	C9105	B5E	3101050800000	Chip capacitor
477	C9106	T5C	3101052000020	Chip capacitor
478	C9107	B5E	3101051200020	Chip capacitor
479	C9108	T2F	3101051020010	Chip capacitor
480	C9109	T4D	3101050800000	Chip capacitor
481	C9110	B4E	3101051030020	Chip capacitor
482	C9111	T5E	3101052490020	Chip capacitor
483	C9112	T5D	3101061800000	Chip capacitor
484	C9113	T4D	3101050800000	Chip capacitor
485	C9114	T5D	3001055620000	Chip resistor
486	C9115	T5C	3101050600010	Chip capacitor
487	C9116	T5C	3101050300000	Chip capacitor
488	C9117	T5C	3101050800000	Chip capacitor
489	C9118	B3E	3101052700000	Chip capacitor
490	C9120	T5D	3101050900000	Chip capacitor
491	C9121	B4E	3101051020010	Chip capacitor
492	C9122	B3E	3101052700000	Chip capacitor
493	C9128	T5C	3101054790060	Chip capacitor
494	C9129	T5C	3101050900000	Chip capacitor
495	C9131	T5C	3101054700010	Chip capacitor
496	C9133	T5C	3101054790060	Chip capacitor
497	C9134	T4C	3101050700010	Chip capacitor
498	C9135	T5D	3101054790060	Chip capacitor
499	C9136	T4E	3101054790060	Chip capacitor
500	C9137	T5E	3101050600010	Chip capacitor
501	C9138	T4D	3101054730000	Chip capacitor
502	C9141	T5E	3101054700010	Chip capacitor
503	C9143	T5C	3001050000000	Chip resistor
504	D	B3F	6202552000000	VCO shielding mask
505	D101	B1H	3304990000030	Varactor
506	D102	T1G	3304010100220	Varactor
507	D103	T1G	3304010100220	Varactor
508	D104	B2F	3303990000060	Switching diode
509	D105	B2F	3303990000060	Switching diode
510	D106	T1G	3304010100220	Varactor
511	D107	T1G	3304010100220	Varactor
512	D108	B1G	3304990000030	Varactor
513	D109	B1G	3304990000030	Varactor
514	D110	B1H	3304990000030	Varactor

No.	Ref No.	Print No.	Part No.	Description
515	D111	B2G	3304010100890	Varactor
516	D112	T2H	3303990000060	Switching diode
517	D301	B6G	3307110100060	LED
518	D303	T1J	3301990000030	Schottky barrier diode
519	D304	T2J	3301990000030	Schottky barrier diode
520	D307	B4K	3399040600020	ESD protection diode
521	D308	B4K	3399040600020	ESD protection diode
522	D309	B4K	3399040600020	ESD protection diode
523	D310	B4K	3399040600020	ESD protection diode
524	D314	B5K	3399040600020	ESD protection diode
525	D317	B5K	3399040600020	ESD protection diode
526	D318	B3K	3310249900000	ESD protection diode
527	D319	B3K	3310249900000	ESD protection diode
528	D320	B3K	3399040600000	ESD protection diode
529	D321	B4J	3399040600000	ESD protection diode
530	D322	T5I	3399040600000	ESD protection diode
531	D401	T3H	3304060300050	Varactor
532	D402	B4G	3304060300050	Varactor
533	D602	B3D	3399040600020	ESD protection diode
534	D603	B4F	3399040600020	ESD protection diode
535	D604	B4H	3303030100010	Switching diode
536	D607	T5H	3303240000000	Switching diode
537	D608	T5H	3399040600000	ESD protection diode
538	D9001	T4D	3304060300050	Varactor
539	D9002	T4D	3303030800040	Switching diode
540	D9005	T4C	3303990000060	Switching diode
541	D9006	T4C	3303990000060	Switching diode
542	D9007	T2F	3303990000060	Switching diode
543	D9008	T2F	3303990000060	Switching diode
544	D9010	B2D	3399990000080	Zener diode
545	D9011	T2F	3303030100010	Switching diode
546	D9012	T5D	3304060300050	Varactor
547	D9013	T5C	3303030300000	Schottky barrier diode
548	D9014	T5C	3304060300050	Varactor
549	D9015	T5C	3304060300050	Varactor
550	D9017	T5E	3301250300000	Schottky barrier diode
551	E	B4F	6202550000000	DAC shielding mask
552	F	B4G	6202550000000	DAC shielding mask
553	F601	B3D	4099000000050	Fuse
554	F602	B4F	4002000000300	Fuse
555	F603	B4F	4002000000300	Fuse
556	G	B4H	6202555000000	Baseband shielding mask
557	J301	T4J	5201020000020	Board-to-board connector
558	J601	T3E	5208002200220	Battery connector

No.	Ref No.	Print No.	Part No.	Description
559	J602	B4K	5201050100030	Board-to-board connector
560	L1001	B5J	3217105150000	Chip inductor
561	L1002	B5I	3221505121010	Bead
562	L101	B2F	3210306330000	Multi-layer chip inductor
563	L102	B3G	3212106120000	Multi-layer chip inductor
564	L103	B3G	3212106120000	Multi-layer chip inductor
565	L104	T2F	3290106120000	Wire-wound inductor
566	L105	T2F	3290106120000	Wire-wound inductor
567	L106	T2F	3210406331000	Multi-layer chip inductor
568	L107	B2F	3210306330000	Multi-layer chip inductor
569	L108	T2G	3210406331000	Multi-layer chip inductor
570	L109	B2F	3221505121010	Bead
571	L110	T1G	3210106391000	Wire-wound inductor
572	L111	T2G	3217107180010	Wire-wound inductor
573	L112	T1G	3217107180010	Wire-wound inductor
574	L113	T2G	3210106391000	Wire-wound inductor
575	L114	B2G	3210406331000	Multi-layer chip inductor
576	L115	B1G	3210406331000	Multi-layer chip inductor
577	L116	B1G	3210106391000	Wire-wound inductor
578	L117	B2H	3217107180010	Wire-wound inductor
579	L118	B2H	3217107180010	Wire-wound inductor
580	L119	B1G	3210106391000	Wire-wound inductor
581	L120	T1G	3221505121010	Bead
582	L121	T2G	3221505121010	Bead
583	L122	T2H	3221505121010	Bead
584	L123	T2H	3221505121010	Bead
585	L124	T1H	3210406471000	Multi-layer chip inductor
586	L201	T3H	3210406471000	Multi-layer chip inductor
587	L202	B4J	3221505121010	Bead
588	L204	B3I	3221505121010	Bead
589	L205	B3I	3221505121010	Bead
590	L301	B6H	3221505121010	Bead
591	L308	B4J	3221505121010	Bead
592	L309	B2I	3001060000000	Chip resistor
593	L310	B2I	3001060000000	Chip resistor
594	L313	B4K	3221505121010	Bead
595	L315	T4I	3221505121000	Bead
596	L401	T3G	3217099153000	Wire-wound inductor
597	L402	B3E	3210406271000	Multi-layer chip inductor
598	L403	T3G	3221505121010	Bead
599	L404	T3G	3217099153000	Wire-wound inductor
600	L405	B3F	3221505121010	Bead
601	L406	B4G	3217107180010	Wire-wound inductor
602	L407	T4H	3221505121010	Bead

No.	Ref No.	Print No.	Part No.	Description
603	L408	T2G	3210407472000	Multi-layer chip inductor
604	L409	B3F	3210406471000	Multi-layer chip inductor
605	L410	T2H	3221505121010	Bead
606	L411	T3H	3210407472000	Multi-layer chip inductor
607	L412	T2G	3221505121010	Bead
608	L413	B4G	3213306682000	Multi-layer chip inductor
609	L511	T3B	3210305829000	Multi-layer chip inductor
610	L512	T1C	3221505121010	Bead
611	L513	T2C	3221505121010	Bead
612	L514	B3C	3210305399000	Multi-layer chip inductor
613	L515	T1C	3221505121010	Bead
614	L516	T3B	3217105180000	Chip inductor
615	L517	T3B	3297106339000	Wire-wound inductor
616	L518	T3B	3297106339000	Wire-wound inductor
617	L519	T3B	3297106339000	Wire-wound inductor
618	L520	T3C	3210305330000	Multi-layer chip inductor
619	L522	T3C	3210305689000	Multi-layer chip inductor
620	L601	B4G	3221506181000	Bead
621	L602	B3E	3221506181000	Bead
622	L603	B3E	3221506181000	Bead
623	L605	B2E	3221506181000	Bead
624	L606	B2E	3221506181000	Bead
625	L607	T4F	3290299222000	Wire-wound inductor
626	L609	B5H	3221506181000	Bead
627	L610	T4G	3217099153000	Wire-wound inductor
628	L611	B5F	3221506181000	Bead
629	L612	B5G	3221506181000	Bead
630	L613	T4G	3290299222000	Wire-wound inductor
631	L614	T5H	3217099153000	Wire-wound inductor
632	L615	B5G	3221506181000	Bead
633	L616	B5G	3221506181000	Bead
634	L617	B5G	3221506181000	Bead
635	L620	B4F	3221506181000	Bead
636	L801	T4K	3221505121010	Bead
637	L802	T4K	3221506181000	Bead
638	L803	T4K	3221505121010	Bead
639	L804	T4K	3221505121010	Bead
640	L805	T4K	3221505121010	Bead
641	L820	T3K	3221506601000	Bead
642	L821	T2J	3221505121010	Bead
643	L822	T2J	3221505121010	Bead
644	L9001	T4E	3210106820000	Wire-wound inductor
645	L9002	T3C	3210306820000	Multi-layer chip inductor
646	L9003	T3C	3233099185900	Air-core coil

No.	Ref No.	Print No.	Part No.	Description
647	L9004	T4B	3233099185900	Air-core coil
648	L9005	T4B	3233099185900	Air-core coil
649	L9006	T1D	3215006100010	Multi-layer chip inductor
650	L9007	T1D	3215006100010	Multi-layer chip inductor
651	L9008	T2D	3233099470000	Air-core coil
652	L9009	T2E	3210306220000	Multi-layer chip inductor
653	L9010	T2E	3210306220000	Multi-layer chip inductor
654	L9011	T2D	3210209102010	Wire-wound inductor
655	L9012	T4D	3210107221000	Wire-wound inductor
656	L9013	T4C	3233099185900	Air-core coil
657	L9014	T2D	3221506121000	Bead
658	L9015	B1E	3221505121010	Bead
659	L9016	T2C	3210306339000	Multi-layer chip inductor
660	L9017	T4E	3001060000000	Chip resistor
661	L9018	T4E	3001060000000	Chip resistor
662	L9020	B2F	3221505121010	Bead
663	L9022	T5E	3210406271000	Multi-layer chip inductor
664	L9024	T4D	3217607221000	Wire-wound inductor
665	L9025	T5C	3210106560000	Wire-wound inductor
666	L9026	B3E	3210106220000	Wire-wound inductor
667	L9027	B4E	3210106820000	Wire-wound inductor
668	L9028	T4D	3210106220000	Wire-wound inductor
669	L9030	T5C	3297106339000	Wire-wound inductor
670	L9031	B4C	3001060000000	Chip resistor
671	L9032	B4E	3210306221000	Multi-layer chip inductor
672	L9033	T5D	3237199170000	Air-core coil
673	L9034	T4C	3101054700010	Chip capacitor
674	L9035	T4D	3237199170000	Air-core coil
675	L9036	T5C	3237199170000	Air-core coil
676	L9037	T5C	3237199170000	Air-core coil
677	L9038	B4E	3210406331000	Multi-layer chip inductor
678	L9039	T5E	3001060000000	Chip resistor
679	Q101	B2G	3401002000990	NPN transistor
680	Q102	B3F	3408002000000	NPN transistor
681	Q103	B2F	3403999000000	Composite transistor
682	Q104	T2G	3408002000000	NPN transistor
683	Q105	B2F	3403003000060	NPN transistor
684	Q106	B2F	3403999000000	Composite transistor
685	Q107	B2F	3403999000000	Composite transistor
686	Q108	B2G	3408002000000	NPN transistor
687	Q401	B3F	3403003000060	NPN transistor
688	Q403	B3F	3408002000000	NPN transistor
689	Q601	T4J	3403999000000	Composite transistor
690	Q604	B5H	3503020000030	N-MOSFET

No.	Ref No.	Print No.	Part No.	Description
691	Q605	B4F	3505990000040	P-MOSFET
692	Q606	B5F	3503020000030	N-MOSFET
693	Q802	T4J	3403009000010	Composite transistor
694	Q9001	T5D	3418001000010	NPN transistor
695	Q9002	T2E	3408002000000	NPN transistor
696	Q9003	T2D	3504990000040	PA MOSFET
697	Q9004	T1E	3406001000090	NPN transistor
698	Q9005	T1D	3504990000010	PA MOSFET
699	Q9006	B1E	3410001000020	NPN transistor
700	Q9007	B1E	3403008000010	BRT
701	Q9008	B1E	3403008000010	BRT
702	Q9017	B4E	3404006000000	NPN transistor
703	Q9018	B4E	3404006000000	NPN transistor
704	Q9019	B2E	3403999000000	Composite transistor
705	Q9020	B2D	3403999000000	Composite transistor
706	Q9021	T1F	3401001000490	PNP transistor
707	Q9022	B4C	3403999000000	Composite transistor
708	Q9023	B4F	3403999000000	Composite transistor
709	R1002	B5I	3001053390000	Chip resistor
710	R101	B2G	3001055600000	Chip resistor
711	R102	B2F	3001051030000	Chip resistor
712	R103	B3F	3001051000000	Chip resistor
713	R104	T2F	3001051020000	Chip resistor
714	R105	B2H	3001051030000	Chip resistor
715	R106	B3F	3001055620000	Chip resistor
716	R107	B2F	3001053310010	Chip resistor
717	R108	T2F	3001053320010	Chip resistor
718	R109	B3H	3001051040000	Chip resistor
719	R110	T2F	3001058220010	Chip resistor
720	R111	T2F	3001051010040	Chip resistor
721	R112	B2G	3001051840000	Chip resistor
722	R113	B2F	3001054710000	Chip resistor
723	R114	B2F	3001053320000	Chip resistor
724	R115	T2G	3001051810010	Chip resistor
725	R116	B2F	3001054720000	Chip resistor
726	R117	B1G	3001053320010	Chip resistor
727	R118	B1G	3001058220010	Chip resistor
728	R119	B2G	3001051010040	Chip resistor
729	R120	B2G	3001051030050	Chip resistor
730	R121	B2G	3001051010040	Chip resistor
731	R122	B2G	3001051030050	Chip resistor
732	R123	B2G	3001051040000	Chip resistor
733	R124	B3G	3001052720010	Chip resistor
734	R125	B3H	3001057520000	Chip resistor

No.	Ref No.	Print No.	Part No.	Description
735	R126	B3G	3001056820010	Chip resistor
736	R128	B2H	3001053920000	Chip resistor
737	R129	B1G	3001051030000	Chip resistor
738	R130	T2H	3001051000000	Chip resistor
739	R131	T2H	3221505121010	Bead
740	R132	T2G	3001055100020	Chip resistor
741	R133	T2H	3001051030000	Chip resistor
742	R134	T2H	3001051000000	Chip resistor
743	R136	T1H	3001055600000	Chip resistor
744	R138	T1H	3001054700000	Chip resistor
745	R140	T1H	3001052220000	Chip resistor
746	R142	B2H	3001051030000	Chip resistor
747	R143	B2F	3001053320000	Chip resistor
748	R144	B2G	3001053320000	Chip resistor
749	R145	B1H	3001053330000	Chip resistor
750	R146	B1H	3001053330000	Chip resistor
751	R147	B4I	3001051020000	Chip resistor
752	R150	B3H	3001051020000	Chip resistor
753	R203	T4H	3001051000000	Chip resistor
754	R206	B3J	3001051000000	Chip resistor
755	R207	T2J	3001053300000	Chip resistor
756	R208	T2J	3001051030000	Chip resistor
757	R209	B4I	3001051000000	Chip resistor
758	R210	B3I	3001051030000	Chip resistor
759	R211	B3I	3001050000000	Chip resistor
760	R212	B4I	3001051020000	Chip resistor
761	R213	B4I	3001051020000	Chip resistor
762	R220	T2I	3001051010000	Chip resistor
763	R221	T2I	3001051010000	Chip resistor
764	R222	T2I	3001051010000	Chip resistor
765	R251	T2J	3001051040000	Chip resistor
766	R254	T2J	3001050000000	Chip resistor
767	R255	B2I	3001053300000	Chip resistor
768	R258	B6I	3001051030000	Chip resistor
769	R259	B2I	3001053300000	Chip resistor
770	R260	B2I	3001051520000	Chip resistor
771	R261	B2I	3001051530000	Chip resistor
772	R262	B2I	3001051530000	Chip resistor
773	R264	B2I	3001051030000	Chip resistor
774	R266	T2J	3001053300000	Chip resistor
775	R267	T2J	3001051010000	Chip resistor
776	R268	B3H	3001051010000	Chip resistor
777	R269	T4G	3001051010000	Chip resistor
778	R270	B4J	3001051020000	Chip resistor

No.	Ref No.	Print No.	Part No.	Description
779	R273	B4J	3001051020000	Chip resistor
780	R276	B4I	3001051020000	Chip resistor
781	R277	T4I	3001051030000	Chip resistor
782	R281	B4I	3001051030000	Chip resistor
783	R282	B4I	3001051030000	Chip resistor
784	R301	B6I	3001051040000	Chip resistor
785	R304	B6I	3001051040000	Chip resistor
786	R305	B6G	3001051040000	Chip resistor
787	R306	B6G	3001054720000	Chip resistor
788	R307	B6G	3001054720000	Chip resistor
789	R308	B6G	3001054720000	Chip resistor
790	R327	T2I	3001053320000	Chip resistor
791	R328	T2I	3001053320000	Chip resistor
792	R329	T1I	3001051030000	Chip resistor
793	R330	T1I	3001051030000	Chip resistor
794	R333	T2J	3001051020000	Chip resistor
795	R335	T2J	3001051850000	Chip resistor
796	R336	T2J	3001051850000	Chip resistor
797	R342	B4J	3001051040000	Chip resistor
798	R343	B4J	3001051040000	Chip resistor
799	R401	T2G	3001055100020	Chip resistor
800	R402	B4G	3001051030000	Chip resistor
801	R403	B3G	3001051020000	Chip resistor
802	R404	T4G	3001056810000	Chip resistor
803	R405	T4G	3001051030000	Chip resistor
804	R407	B3G	3001058220000	Chip resistor
805	R408	B3F	3001051010000	Chip resistor
806	R409	B3F	3001054720000	Chip resistor
807	R410	B3F	3001051030000	Chip resistor
808	R411	B3G	3001053910000	Chip resistor
809	R412	T3H	3001051040000	Chip resistor
810	R413	T3H	3001051820000	Chip resistor
811	R414	T3H	3001052720000	Chip resistor
812	R415	T3H	3001061030000	Chip resistor
813	R416	T3H	3001058210000	Chip resistor
814	R506	T2B	3001051040000	Chip resistor
815	R507	T2B	3001051040000	Chip resistor
816	R508	B2C	3001054720000	Chip resistor
817	R509	T2C	3001051040000	Chip resistor
818	R510	T3C	3001051000000	Chip resistor
819	R511	T2B	3001051000000	Chip resistor
820	R514	T2B	3001051030000	Chip resistor
821	R515	T2B	3001051530000	Chip resistor
822	R520	B1C	3001051030000	Chip resistor

No.	Ref No.	Print No.	Part No.	Description
823	R521	B1C	3001051010000	Chip resistor
824	R522	B1C	3001051010000	Chip resistor
825	R523	B2C	3001050000000	Chip resistor
826	R525	T2B	3001050000000	Chip resistor
827	R528	T2C	3001050000000	Chip resistor
828	R601	T5G	3001057520000	Chip resistor
829	R607	T4K	3001052030000	Chip resistor
830	R611	B3E	3001051030000	Chip resistor
831	R612	T4K	3001051030000	Chip resistor
832	R613	B4F	3001051050000	Chip resistor
833	R614	B4G	3001051040000	Chip resistor
834	R615	B4F	3001053940000	Chip resistor
835	R616	B5F	3001051050000	Chip resistor
836	R617	T4G	3001056840000	Chip resistor
837	R618	T4G	3001052040010	Chip resistor
838	R619	B5F	3001054740010	Chip resistor
839	R621	B4H	3001054730010	Chip resistor
840	R623	T4G	3001051330000	Chip resistor
841	R627	T5I	3001051020000	Chip resistor
842	R630	T5I	3001051020000	Chip resistor
843	R631	B5H	3001051530000	Chip resistor
844	R632	B5H	3001051020000	Chip resistor
845	R633	B4H	3001051040000	Chip resistor
846	R634	B4H	3001052730000	Chip resistor
847	R635	B4H	3001054730010	Chip resistor
848	R701	B3H	3001050000000	Chip resistor
849	R702	B3G	3001056830000	Chip resistor
850	R704	B3H	3001051010000	Chip resistor
851	R705	B3H	3001051030050	Chip resistor
852	R706	B3H	3001053920000	Chip resistor
853	R707	B4G	3001053330000	Chip resistor
854	R709	B3H	3001051040000	Chip resistor
855	R710	B3H	3001051040000	Chip resistor
856	R711	B4G	3001051030000	Chip resistor
857	R712	B3G	3221505121010	Bead
858	R713	B3G	3001051010000	Chip resistor
859	R714	B4G	3001051030000	Chip resistor
860	R801	T4K	3001051000000	Chip resistor
861	R802	T4K	3001051540000	Chip resistor
862	R803	T4K	3001051540000	Chip resistor
863	R806	T4K	3001051000000	Chip resistor
864	R807	T4K	3001052030000	Chip resistor
865	R808	T3K	3001051030000	Chip resistor
866	R809	T3K	3001051030000	Chip resistor

No.	Ref No.	Print No.	Part No.	Description
867	R810	T3K	3001051030000	Chip resistor
868	R811	T3K	3001051030000	Chip resistor
869	R812	T3J	3001051540000	Chip resistor
870	R813	T3J	3001051540000	Chip resistor
871	R814	T4J	3001051840000	Chip resistor
872	R823	T2J	3001051030000	Chip resistor
873	R824	T2K	3001058220010	Chip resistor
874	R826	T2K	3001054330000	Chip resistor
875	R827	T3K	3001051020000	Chip resistor
876	R828	T2K	3001051530000	Chip resistor
877	R829	T3J	3001054740010	Chip resistor
878	R830	T2K	3001053330000	Chip resistor
879	R831	B4K	3001051020000	Chip resistor
880	R832	T2K	3001051020000	Chip resistor
881	R833	B4K	3001051020000	Chip resistor
882	R834	T3K	3001051020000	Chip resistor
883	R835	B3J	3001051040000	Chip resistor
884	R836	T5J	3001050000000	Chip resistor
885	R837	T5J	3001051030000	Chip resistor
886	R838	T2K	3001051020000	Chip resistor
887	R839	T3J	3001051020000	Chip resistor
888	R840	T5I	3001051030000	Chip resistor
889	R841	T5J	3001051030000	Chip resistor
890	R9001	T5E	3001052710010	Chip resistor
891	R9002	T2E	3001054730010	Chip resistor
892	R9003	T5E	3001052710010	Chip resistor
893	R9004	T3D	3233099449000	Air-core coil
894	R9005	T5E	3001055690000	Chip resistor
895	R9006	T3B	3001051030000	Chip resistor
896	R9007	T2E	3001058200000	Chip resistor
897	R9008	T1E	3001051520000	Chip resistor
898	R9009	T1D	3001053300000	Chip resistor
899	R9010	T4C	3001051030000	Chip resistor
900	R9011	T2E	3001051010000	Chip resistor
901	R9012	T2E	3001051010000	Chip resistor
902	R9013	T2E	3001053320000	Chip resistor
903	R9015	T2E	3001053310000	Chip resistor
904	R9016	T2D	3001051510000	Chip resistor
905	R9017	T2C	3001051010000	Chip resistor
906	R9018	T2E	3001056810000	Chip resistor
907	R9019	T4D	3001050000000	Chip resistor
908	R9020	T2F	3001054720000	Chip resistor
909	R9021	T1E	3001054700000	Chip resistor
910	R9022	T2E	3001052200000	Chip resistor

No.	Ref No.	Print No.	Part No.	Description
911	R9023	T2D	3001053920010	Chip resistor
912	R9024	T2D	3001056820000	Chip resistor
913	R9025	T4D	3001052710010	Chip resistor
914	R9027	T2D	3001058220000	Chip resistor
915	R9028	T4D	3001052710010	Chip resistor
916	R9029	T2D	3001053310000	Chip resistor
917	R9033	B2D	3001051020000	Chip resistor
918	R9035	T2F	3001051030000	Chip resistor
919	R9036	B2E	3001051030000	Chip resistor
920	R9038	B2D	3001051020000	Chip resistor
921	R9039	B1E	3001051010000	Chip resistor
922	R9040	B4H	3001051020000	Chip resistor
923	R9041	B1E	3001054720000	Chip resistor
924	R9042	T2F	3001053320000	Chip resistor
925	R9043	B2D	3001053330000	Chip resistor
926	R9044	T2F	3001053320000	Chip resistor
927	R9045	B2D	3001051050000	Chip resistor
928	R9046	B2D	3001054740010	Chip resistor
929	R9047	B1D	3001053330000	Chip resistor
930	R9048	B2D	3001051540000	Chip resistor
931	R9049	B4C	3001051030000	Chip resistor
932	R9050	B1D	3001054730010	Chip resistor
933	R9053	B3D	3099080398010	Chip resistor
934	R9054	B3D	3099080398010	Chip resistor
935	R9055	B3D	3099080398010	Chip resistor
936	R9057	B1D	3001051540000	Chip resistor
937	R9058	B1D	3001051050000	Chip resistor
938	R9059	B1D	3001054740010	Chip resistor
939	R9063	T4D	3001051030000	Chip resistor
940	R9066	B4E	3001051520000	Chip resistor
941	R9067	B3E	3001056820000	Chip resistor
942	R9068	B2E	3001053320000	Chip resistor
943	R9071	B4E	3001053320000	Chip resistor
944	R9072	T4D	3001051040000	Chip resistor
945	R9073	T4D	3001051040000	Chip resistor
946	R9074	T4D	3001051030000	Chip resistor
947	R9075	B4E	3001054740010	Chip resistor
948	R9076	T5C	3001051040000	Chip resistor
949	R9077	T5C	3001051040000	Chip resistor
950	R9078	B4E	3001053320000	Chip resistor
951	R9079	B4E	3001053910000	Chip resistor
952	R9080	T5D	3101054700010	Chip capacitor
953	R9081	B4E	3001051030000	Chip resistor
954	R9083	T4D	3001053310000	Chip resistor

No.	Ref No.	Print No.	Part No.	Description
955	R9084	B4E	3001055620000	Chip resistor
956	R9085	B4E	3001051530000	Chip resistor
957	R9089	T5D	3001055620000	Chip resistor
958	R9095	T2F	3001053320000	Chip resistor
959	R9096	T2F	3001053320000	Chip resistor
960	R9097	T2E	3001053320000	Chip resistor
961	R9098	T2E	3001053320000	Chip resistor
962	R9099	T4D	3001050100010	Chip resistor
963	RN101	B1H	3005054730000	Integrated resistor
964	RN258	B3I	3005051010010	Integrated resistor
965	RN502	T2B	3005051040000	Integrated resistor
966	RN503	T2B	3005051040000	Integrated resistor
967	RT601	T5G	3003061040000	Thermistor
968	T9001	T5E	5406000000200	Transformer
969	T9002	T4E	5406000000200	Transformer
970	U1001	B5I	3609999011080	Bluetooth chip
971	U1002	B5J	3801244160000	Ceramic filter
972	U102	B2H	3605002057290	Operational amplifier
973	U103	T2H	3604019000000	PLL IC
974	U105	B1H	3616093000000	Switch IC
975	U201	B3J	3610010000010	MCU
976	U242	B2K	3612044000010	Memory
977	U244	B2J	3612999000290	Memory
978	U310	T1I	3609042000000	Sensor
979	U311	T2J	3609006006030	Real-time clock
980	U325	B4J	3805000000030	EMI filter
981	U326	B4J	3805000000030	EMI filter
982	U327	B4J	3805000000030	EMI filter
983	U328	T4I	3805000000030	EMI filter
984	U329	T4J	3805000000030	EMI filter
985	U330	T4I	3805000000030	EMI filter
986	U401	T3G	3603999000000	IF processor
987	U501	B2C	3609999008540	GPS chip
988	U502	T3B	3609008000000	GPS low-noise amplifier
989	U504	T1C	3608015005620	Power management IC
990	U505	T2C	3701163640010	TCXO
991	U510	T1C	3608015005610	Power management IC
992	U511	T2C	3626006000010	Reset IC
993	U601	T4G	3608011000050	Power management IC
994	U604	B3E	3608020005750	Power management IC
995	U605	B2E	3608020005750	Power management IC
996	U606	B5G	3608006000040	Power management IC
997	U607	T5I	3609010000170	Reset IC
998	U608	B4G	3608015000220	Power management IC

No.	Ref No.	Print No.	Part No.	Description
999	U609	B5G	3608006000000	Power management IC
1000	U610	B5G	3608006000030	Power management IC
1001	U611	T5G	3608011000050	Power management IC
1002	U612	B4G	3608006000000	Power management IC
1003	U701	B4H	3606010000010	D/A converter
1004	U801	T4K	3602023005740	Audio amplification IC
1005	U820	T3K	3616037000020	Switch IC
1006	U821	T2K	3613010000000	Baseband processor
1007	U9002	B1D	3605025000020	Operational amplifier
1008	U9003	B2D	5404000000060	Sensor
1009	X1001	B4I	3701002660070	Crystal
1010	X101	T2H	3701019250030	TCXO
1011	X201	T1J	3701327710010	Crystal
1012	X203	T3H	3701019250040	TCXO
1013	X501	B3C	3701327710010	Crystal
1014	Z304	B4K	3805000000040	EMI filter
1015	Z305	T5I	3805000000040	EMI filter
1016	Z306	B4K	3805000000040	EMI filter
1017	Z502	T3C	3804157560000	GPS filter
1018	Z503	T3B	3804157560000	GPS filter
1019	Z9001	B5E	3802733540030	Crystal filter
1020	/	/	/	Main board

7.1.3 UHF3

No.	Ref No.	Print No.	Part No.	Description
1	A	T4F	6202502000000	DC shielding mask
2	ANT1	T3A	6202482000010	Spring plate for antenna
3	B	B3B	6202551000000	GPS shielding mask
4	C	B5E	6202553000000	IF shielding mask
5	C1001	B5J	3101051050160	Chip capacitor
6	C1003	B5J	3101051050160	Chip capacitor
7	C1004	B5J	3101054730040	Chip capacitor
8	C1005	B5J	3101051050160	Chip capacitor
9	C1006	B5J	3101051050160	Chip capacitor
10	C1007	B5J	3101051050160	Chip capacitor
11	C1009	B4I	3101052230000	Chip capacitor
12	C101	B2F	3101054710010	Chip capacitor
13	C1010	B4J	3101051200020	Chip capacitor
14	C1011	B4I	3101051500020	Chip capacitor
15	C1012	B5I	3101064750010	Chip capacitor
16	C1014	B5I	3101051050160	Chip capacitor
17	C1015	B5I	3101051050160	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
18	C1016	B5I	3101051050160	Chip capacitor
19	C1017	B5I	3101051050160	Chip capacitor
20	C1018	B5J	3101051050160	Chip capacitor
21	C1019	B4J	3101051050160	Chip capacitor
22	C102	B2G	3101050400010	Chip capacitor
23	C1020	B4I	3101051050160	Chip capacitor
24	C1021	B5I	3101051050160	Chip capacitor
25	C103	B3G	3101050400010	Chip capacitor
26	C104	B2F	3101054710010	Chip capacitor
27	C105	B1H	3101051040060	Chip capacitor
28	C106	B2G	3101050600010	Chip capacitor
29	C107	B2F	3101050800000	Chip capacitor
30	C108	B2G	3101050800000	Chip capacitor
31	C109	B2G	3101050800000	Chip capacitor
32	C110	B2G	3101051200020	Chip capacitor
33	C111	T2F	3101054790040	Chip capacitor
34	C112	T2F	3101054790040	Chip capacitor
35	C113	B3F	3101051200020	Chip capacitor
36	C114	T2F	3101050800000	Chip capacitor
37	C115	T2F	3101050800000	Chip capacitor
38	C116	T2F	3101051200020	Chip capacitor
39	C117	T2G	3101051040060	Chip capacitor
40	C118	T2F	3101054710010	Chip capacitor
41	C119	B2F	3101051000020	Chip capacitor
42	C120	T2F	3101054710010	Chip capacitor
43	C121	T2F	3101051040060	Chip capacitor
44	C122	T2G	3101060500010	Chip capacitor
45	C123	T1G	3101061200000	Chip capacitor
46	C124	B2G	3101050600010	Chip capacitor
47	C125	T2G	3101060400010	Chip capacitor
48	C126	B2G	3101051040060	Chip capacitor
49	C127	B2G	3101054710010	Chip capacitor
50	C128	T1G	3101061200000	Chip capacitor
51	C129	T2G	3101063690000	Chip capacitor
52	C130	T2G	3101062700010	Chip capacitor
53	C132	T2G	3101058200000	Chip capacitor
54	C133	T2G	3101060600010	Chip capacitor
55	C134	T2G	3101062000000	Chip capacitor
56	C136	B2F	3101054710010	Chip capacitor
57	C137	T1G	3101051020010	Chip capacitor
58	C138	B1G	3101051040060	Chip capacitor
59	C139	B1G	3101054710010	Chip capacitor
60	C140	B2F	3101062250000	Chip capacitor
61	C141	B2G	3101051040060	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
62	C142	B2G	3101054710010	Chip capacitor
63	C143	B2G	3101061590010	Chip capacitor
64	C144	B2G	3101060300010	Chip capacitor
65	C145	B2G	3101061800000	Chip capacitor
66	C146	B2G	3101061800000	Chip capacitor
67	C147	B2G	3101060300010	Chip capacitor
68	C148	B2G	3101061800000	Chip capacitor
69	C149	B2G	3101060200010	Chip capacitor
70	C151	B2G	3101051010030	Chip capacitor
71	C152	B2H	3101065690000	Chip capacitor
72	C153	B1G	3101061500010	Chip capacitor
73	C154	B3G	3101051050160	Chip capacitor
74	C156	B1H	3101051020010	Chip capacitor
75	C157	B2G	3101062250000	Chip capacitor
76	C158	B3H	3001060000000	Chip resistor
77	C159	B2H	3101054710010	Chip capacitor
78	C160	B2H	3101052220010	Chip capacitor
79	C161	B1G	3101051020010	Chip capacitor
80	C162	B1H	3101051020010	Chip capacitor
81	C163	T2H	3101051020010	Chip capacitor
82	C164	T2H	3101051040060	Chip capacitor
83	C166	T1H	3101051040060	Chip capacitor
84	C167	T2H	3101051040060	Chip capacitor
85	C168	T2H	3101051010030	Chip capacitor
86	C169	T2H	3101051040060	Chip capacitor
87	C170	T2H	3101051010030	Chip capacitor
88	C171	T1H	3199050758000	Chip capacitor
89	C172	T1H	3101051020010	Chip capacitor
90	C173	T2H	3101051010030	Chip capacitor
91	C174	T2H	3101051030020	Chip capacitor
92	C175	T1H	3101052710000	Chip capacitor
93	C176	T1H	3101053310030	Chip capacitor
94	C177	T1G	3101073940000	Chip capacitor
95	C178	T1H	3101073340010	Chip capacitor
96	C179	T2H	3101051040060	Chip capacitor
97	C180	T1H	3101051020010	Chip capacitor
98	C182	B2H	3101051040060	Chip capacitor
99	C183	T1H	3101051020010	Chip capacitor
100	C184	B1H	3101051020010	Chip capacitor
101	C185	T1H	3104072250060	Tantalum capacitor
102	C201	B4I	3101051520000	Chip capacitor
103	C202	T3H	3101051020010	Chip capacitor
104	C203	T1J	3101052000020	Chip capacitor
105	C204	T1J	3101052000020	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
106	C206	T3H	3101051020010	Chip capacitor
107	C207	T3H	3101052710000	Chip capacitor
108	C208	T3H	3101053310030	Chip capacitor
109	C209	T4H	3101053920000	Chip capacitor
110	C210	T4H	3101052240080	Chip capacitor
111	C211	T3H	3101051020010	Chip capacitor
112	C212	B3I	3101052240010	Chip capacitor
113	C213	B2J	3101051040060	Chip capacitor
114	C214	B2J	3101051040060	Chip capacitor
115	C215	B4I	3101051030020	Chip capacitor
116	C216	B3J	3101052240010	Chip capacitor
117	C217	T2J	3101054700010	Chip capacitor
118	C218	B4J	3101052240010	Chip capacitor
119	C219	B4J	3101051040060	Chip capacitor
120	C220	B2J	3101051040060	Chip capacitor
121	C221	B4I	3101052240010	Chip capacitor
122	C222	B4I	3101051050160	Chip capacitor
123	C223	B3I	3101051520000	Chip capacitor
124	C224	B4J	3101072260000	Chip capacitor
125	C225	T1J	3110997090000	法拉电容
126	C226	B3J	3101052240010	Chip capacitor
127	C227	B3K	3101053920000	Chip capacitor
128	C228	B3J	3101054710010	Chip capacitor
129	C229	B3J	3101051050160	Chip capacitor
130	C230	B3J	3101052240010	Chip capacitor
131	C231	B3I	3101053920000	Chip capacitor
132	C232	B4J	3101054710010	Chip capacitor
133	C233	T2I	3101054700010	Chip capacitor
134	C234	B2I	3101052240010	Chip capacitor
135	C235	B2J	3101072260000	Chip capacitor
136	C236	B2J	3101051050000	Chip capacitor
137	C237	B2J	3101053920000	Chip capacitor
138	C238	B4J	3101051040060	Chip capacitor
139	C239	B3I	3101051040060	Chip capacitor
140	C240	B3I	3101051040060	Chip capacitor
141	C242	T2J	3101052240010	Chip capacitor
142	C243	B3J	3101051040060	Chip capacitor
143	C244	B3K	3101051040060	Chip capacitor
144	C245	B2J	3101053920000	Chip capacitor
145	C246	B3J	3101051520000	Chip capacitor
146	C247	B3K	3101051050160	Chip capacitor
147	C248	B4I	3101053920000	Chip capacitor
148	C249	B2I	3101053920000	Chip capacitor
149	C250	B3I	3101051040060	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
150	C251	B3I	3101051030020	Chip capacitor
151	C252	B4I	3101054700010	Chip capacitor
152	C253	B4I	3101051040060	Chip capacitor
153	C274	B6H	3101051200020	Chip capacitor
154	C278	B3H	3101054700010	Chip capacitor
155	C279	B3H	3101054700010	Chip capacitor
156	C280	B3H	3101054700010	Chip capacitor
157	C281	B4H	3101054710010	Chip capacitor
158	C282	T3J	3101053920000	Chip capacitor
159	C283	B3I	3101054700010	Chip capacitor
160	C284	T2I	3101052710000	Chip capacitor
161	C285	T2I	3101055610000	Chip capacitor
162	C286	T2I	3101055610000	Chip capacitor
163	C287	T2I	3101054710010	Chip capacitor
164	C288	B4H	3101054710010	Chip capacitor
165	C289	T2I	3101053920000	Chip capacitor
166	C290	B4I	3101053920000	Chip capacitor
167	C291	B4J	3101054710010	Chip capacitor
168	C292	B4I	3101054710010	Chip capacitor
169	C293	B3I	3101054710010	Chip capacitor
170	C294	B4J	3101054710010	Chip capacitor
171	C295	B4I	3101054710010	Chip capacitor
172	C297	B4I	3101054710010	Chip capacitor
173	C298	B4I	3101054710010	Chip capacitor
174	C299	B4I	3101054710010	Chip capacitor
175	C300	T2J	3101051010030	Chip capacitor
176	C301	T3J	3101054710010	Chip capacitor
177	C302	T3J	3101054710010	Chip capacitor
178	C303	T2J	3101054710010	Chip capacitor
179	C304	T2J	3101052710000	Chip capacitor
180	C305	T2J	3101054710010	Chip capacitor
181	C306	B6H	3101051040060	Chip capacitor
182	C307	T2J	3101054710010	Chip capacitor
183	C308	T2J	3101052710000	Chip capacitor
184	C309	T2J	3101052710000	Chip capacitor
185	C310	T1I	3101051040060	Chip capacitor
186	C311	T2I	3101051040060	Chip capacitor
187	C315	T2J	3101051040060	Chip capacitor
188	C329	B4J	3101051040060	Chip capacitor
189	C331	B4K	3101051040060	Chip capacitor
190	C332	T5I	3101051050160	Chip capacitor
191	C420	B3E	3101051200020	Chip capacitor
192	C422	T2G	3101051040060	Chip capacitor
193	C423	B3F	3101051050000	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
194	C425	B4G	3101051800010	Chip capacitor
195	C426	T3G	3101051030020	Chip capacitor
196	C427	T3G	3101052210010	Chip capacitor
197	C428	T3G	3101051010030	Chip capacitor
198	C429	T3G	3101051010030	Chip capacitor
199	C430	T3G	3101051040060	Chip capacitor
200	C431	T3G	3101052220010	Chip capacitor
201	C433	T3G	3101051040060	Chip capacitor
202	C434	T3G	3101051040060	Chip capacitor
203	C436	T3G	3101051030020	Chip capacitor
204	C437	B4G	3101065620010	Chip capacitor
205	C438	T3G	3101051010030	Chip capacitor
206	C439	T3H	3101051010030	Chip capacitor
207	C440	T3H	3101051030020	Chip capacitor
208	C441	T3H	3101051040060	Chip capacitor
209	C442	T3H	3101051030020	Chip capacitor
210	C443	T3H	3101053900000	Chip capacitor
211	C445	T3G	3101051040060	Chip capacitor
212	C446	T3G	3101051040060	Chip capacitor
213	C447	T3G	3101051030020	Chip capacitor
214	C448	B3G	3101053300000	Chip capacitor
215	C449	T3G	3101051030020	Chip capacitor
216	C450	T4G	3101061230000	Chip capacitor
217	C452	T4H	3101050500010	Chip capacitor
218	C453	T3G	3101051030020	Chip capacitor
219	C454	T4G	3101051030020	Chip capacitor
220	C455	T3H	3101063320000	Chip capacitor
221	C456	B4G	3101064790010	Chip capacitor
222	C457	B3E	3101051030020	Chip capacitor
223	C458	B3G	3101061800000	Chip capacitor
224	C459	B4F	3101054710010	Chip capacitor
225	C460	B3G	3101063000010	Chip capacitor
226	C461	B3G	3101063300000	Chip capacitor
227	C462	B3F	3101051040060	Chip capacitor
228	C463	T3G	3101072240000	Chip capacitor
229	C464	B3G	3101052200010	Chip capacitor
230	C465	B4F	3101051040060	Chip capacitor
231	C466	T4G	3101051040060	Chip capacitor
232	C467	B4F	3101062250000	Chip capacitor
233	C468	T2H	3104076840020	Tantalum capacitor
234	C470	T4G	3101052710000	Chip capacitor
235	C471	T4G	3101052710000	Chip capacitor
236	C472	T3H	3101062250000	Chip capacitor
237	C473	T4G	3101052710000	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
238	C474	B3F	3101054710010	Chip capacitor
239	C518	T3B	3101051590000	Chip capacitor
240	C519	T3B	3199050758000	Chip capacitor
241	C520	T3B	3101050100030	Chip capacitor
242	C521	T3B	3101050600010	Chip capacitor
243	C530	T3C	3101051010030	Chip capacitor
244	C531	B3C	3101052200010	Chip capacitor
245	C532	B3B	3101050300000	Chip capacitor
246	C533	T2C	3101051020010	Chip capacitor
247	C534	B2C	3101051020010	Chip capacitor
248	C535	B2C	3101051020010	Chip capacitor
249	C536	B3C	3101051800010	Chip capacitor
250	C537	B3C	3101053300000	Chip capacitor
251	C538	B3C	3101051390010	Chip capacitor
252	C539	T1C	3101051030020	Chip capacitor
253	C540	B1C	3101051020010	Chip capacitor
254	C541	B2C	3101051800010	Chip capacitor
255	C542	B1B	3101051800010	Chip capacitor
256	C543	B2C	3101051030020	Chip capacitor
257	C544	B3B	3101051020010	Chip capacitor
258	C545	T2C	3101052240010	Chip capacitor
259	C546	B2C	3101051040060	Chip capacitor
260	C547	B1B	3101051040060	Chip capacitor
261	C549	T1C	3101062250000	Chip capacitor
262	C550	T2C	3101062250000	Chip capacitor
263	C551	T1C	3101051040060	Chip capacitor
264	C552	T2C	3101051040060	Chip capacitor
265	C553	T2C	3101051010030	Chip capacitor
266	C554	T3C	3101051030020	Chip capacitor
267	C555	T3C	3101051020010	Chip capacitor
268	C556	B3C	3101051050160	Chip capacitor
269	C557	B2C	3101062250000	Chip capacitor
270	C559	T1C	3101051050160	Chip capacitor
271	C560	T3C	3101051040060	Chip capacitor
272	C561	T2C	3101051040060	Chip capacitor
273	C601	B4H	3101062250000	Chip capacitor
274	C602	B3E	3101051010030	Chip capacitor
275	C603	B3E	3101074750000	Chip capacitor
276	C604	B2E	3101051040060	Chip capacitor
277	C605	B2E	3101051050160	Chip capacitor
278	C606	B2E	3101062250000	Chip capacitor
279	C607	B2E	3101051040060	Chip capacitor
280	C608	B3F	3101051040060	Chip capacitor
281	C614	B3D	3101055690110	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
282	C615	B1D	3101051040060	Chip capacitor
283	C616	B3D	3101051010030	Chip capacitor
284	C617	B2E	3101051040060	Chip capacitor
285	C618	B3E	3101051040060	Chip capacitor
286	C619	T5G	3101051030020	Chip capacitor
287	C620	B2E	3101051010030	Chip capacitor
288	C621	B2E	3101074750000	Chip capacitor
289	C622	B2E	3101051040060	Chip capacitor
290	C623	B2E	3101051050160	Chip capacitor
291	C624	B2E	3101062250000	Chip capacitor
292	C625	B2E	3101051040060	Chip capacitor
293	C626	B2E	3101051040060	Chip capacitor
294	C627	T4G	3110081060000	Capacitor
295	C628	T5F	3101062240000	Chip capacitor
296	C630	T4F	3101051040060	Chip capacitor
297	C634	B5G	3101074750000	Chip capacitor
298	C635	B5H	3101051040060	Chip capacitor
299	C636	T4H	3110071060000	Capacitor
300	C638	T4H	3101053920000	Chip capacitor
301	C639	T5I	3101051040060	Chip capacitor
302	C640	T5I	3101052240010	Chip capacitor
303	C641	B4F	3101062250000	Chip capacitor
304	C642	B5F	3101051040060	Chip capacitor
305	C644	T4G	3101052000020	Chip capacitor
306	C645	T4G	3101052210010	Chip capacitor
307	C647	B5G	3101051040060	Chip capacitor
308	C648	B5G	3101061050020	Chip capacitor
309	C649	B5H	3101062250000	Chip capacitor
310	C650	B5H	3101053920000	Chip capacitor
311	C651	B5G	3101051040060	Chip capacitor
312	C652	B4F	3101051040060	Chip capacitor
313	C654	T5G	3110081060000	Capacitor
314	C655	T4F	3101062240000	Chip capacitor
315	C656	B5G	3101051040060	Chip capacitor
316	C658	T5G	3101051040060	Chip capacitor
317	C659	B5G	3101051040060	Chip capacitor
318	C660	B5H	3101062250000	Chip capacitor
319	C661	T5H	3110071060000	Capacitor
320	C662	B5H	3101053920000	Chip capacitor
321	C663	B4F	3101062250000	Chip capacitor
322	C666	T5H	3101053920000	Chip capacitor
323	C668	B4G	3101051040060	Chip capacitor
324	C669	B4G	3101061050020	Chip capacitor
325	C670	B4H	3101062250000	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
326	C671	B4H	3101051040060	Chip capacitor
327	C672	T5G	3101052000020	Chip capacitor
328	C673	T4H	3110994760000	Capacitor
329	C674	T4G	3101052210010	Chip capacitor
330	C677	B5G	3101052240010	Chip capacitor
331	C678	B5G	3101062240000	Chip capacitor
332	C679	T4H	3101051040060	Chip capacitor
333	C680	T4H	3101054710010	Chip capacitor
334	C681	T5H	3101054710010	Chip capacitor
335	C682	T5H	3101051040060	Chip capacitor
336	C683	B5G	3101061050020	Chip capacitor
337	C684	B4H	3101053920000	Chip capacitor
338	C685	B5F	3101054710010	Chip capacitor
339	C686	B5F	3101053920000	Chip capacitor
340	C687	B5H	3101053920000	Chip capacitor
341	C688	B4G	3101051040060	Chip capacitor
342	C689	B4F	3101054710010	Chip capacitor
343	C690	B4F	3101051040060	Chip capacitor
344	C691	T4J	3101054710010	Chip capacitor
345	C692	B4F	3101053920000	Chip capacitor
346	C693	B5F	3101054740020	Chip capacitor
347	C702	B4H	3101052240010	Chip capacitor
348	C704	B3H	3101054710010	Chip capacitor
349	C705	B3G	3101051020010	Chip capacitor
350	C706	B4H	3101051050000	Chip capacitor
351	C707	B4G	3101051050000	Chip capacitor
352	C708	B3H	3101056810010	Chip capacitor
353	C711	B3G	3101051050000	Chip capacitor
354	C712	B3H	3101051050000	Chip capacitor
355	C713	B4G	3110061050000	Capacitor
356	C801	T4K	3101051040060	Chip capacitor
357	C802	T3K	3101071060010	Chip capacitor
358	C803	T4K	3101052240010	Chip capacitor
359	C804	T4K	3101052710000	Chip capacitor
360	C805	T4K	3101051010030	Chip capacitor
361	C806	T4K	3101051010030	Chip capacitor
362	C808	T3K	3101053920000	Chip capacitor
363	C809	T4K	3101051040060	Chip capacitor
364	C810	T3K	3101051040060	Chip capacitor
365	C813	T3K	3101053920000	Chip capacitor
366	C816	T3J	3101061050020	Chip capacitor
367	C817	T3J	3101051040060	Chip capacitor
368	C818	T4J	3101056830040	Chip capacitor
369	C819	T4K	3101051030020	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
370	C820	T3K	3101051040060	Chip capacitor
371	C821	T2J	3101052240010	Chip capacitor
372	C822	T2K	3101051030020	Chip capacitor
373	C824	T2J	3101052240010	Chip capacitor
374	C825	T3K	3101062250000	Chip capacitor
375	C826	T3K	3101051030020	Chip capacitor
376	C827	T2K	3101051030020	Chip capacitor
377	C828	T2K	3101062250000	Chip capacitor
378	C831	T2K	3101051050000	Chip capacitor
379	C832	T3K	3101051050000	Chip capacitor
380	C833	T3K	3101051040060	Chip capacitor
381	C834	T3J	3101051050000	Chip capacitor
382	C835	B4K	3101054710010	Chip capacitor
383	C836	T2K	3101051040060	Chip capacitor
384	C837	T3J	3101051030020	Chip capacitor
385	C838	T2K	3101054710010	Chip capacitor
386	C839	T3K	3101051040060	Chip capacitor
387	C840	T5J	3101052710000	Chip capacitor
388	C841	T3K	3101053920000	Chip capacitor
389	C842	T5J	3101051050000	Chip capacitor
390	C843	T5I	3101052710000	Chip capacitor
391	C844	T3K	3101053920000	Chip capacitor
392	C845	T2K	3101051040060	Chip capacitor
393	C846	T5J	3101053920000	Chip capacitor
394	C847	T2K	3101051050000	Chip capacitor
395	C848	T5I	3101053920000	Chip capacitor
396	C849	T5I	3101052710000	Chip capacitor
397	C850	T2K	3101051040060	Chip capacitor
398	C851	B4K	3101054710010	Chip capacitor
399	C852	T5J	3101051050000	Chip capacitor
400	C853	T5J	3101052710000	Chip capacitor
401	C9001	T5C	3101054700010	Chip capacitor
402	C9002	T3D	3101051010030	Chip capacitor
403	C9003	T4C	3101061590010	Chip capacitor
404	C9004	T4B	3101060200010	Chip capacitor
405	C9006	T3D	3101061600000	Chip capacitor
406	C9009	T3D	3101060900010	Chip capacitor
407	C9011	T3D	3101061010010	Chip capacitor
408	C9012	T3D	3101065600000	Chip capacitor
409	C9013	T4C	3101064710000	Chip capacitor
410	C9014	T1C	3101051200020	Chip capacitor
411	C9015	T3D	3101061000000	Chip capacitor
412	C9018	T2E	3101054710010	Chip capacitor
413	C9019	T3D	3101061600000	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
414	C9022	T3D	3101061300000	Chip capacitor
415	C9023	T3B	3101060800010	Chip capacitor
416	C9024	T3B	3101060800010	Chip capacitor
417	C9025	T2E	3101051000020	Chip capacitor
418	C9026	T2E	3101050800000	Chip capacitor
419	C9027	T1D	3101051200020	Chip capacitor
420	C9028	T1D	3101051000020	Chip capacitor
421	C9029	T1D	3101054710010	Chip capacitor
422	C9030	T3D	3101061100010	Chip capacitor
423	C9031	T4C	3101061000000	Chip capacitor
424	C9032	T1D	3101050800000	Chip capacitor
425	C9033	T2E	3101054710010	Chip capacitor
426	C9034	T2D	3101054710010	Chip capacitor
427	C9035	T1C	3101051200020	Chip capacitor
428	C9037	T1E	3101054710010	Chip capacitor
429	C9038	T2D	3101051040060	Chip capacitor
430	C9039	T2D	3101054710010	Chip capacitor
431	C9041	T2D	3101056830040	Chip capacitor
432	C9042	T4D	3101054710010	Chip capacitor
433	C9043	T4D	3101051040060	Chip capacitor
434	C9044	T2D	3101051030020	Chip capacitor
435	C9045	T2E	3101054710010	Chip capacitor
436	C9046	T2E	3101051040060	Chip capacitor
437	C9047	T2D	3101054710010	Chip capacitor
438	C9048	T2D	3101054710010	Chip capacitor
439	C9049	T2D	3101051040060	Chip capacitor
440	C9051	B2D	3104082260060	Tantalum capacitor
441	C9052	T4C	3101054710010	Chip capacitor
442	C9054	T4C	3101054710010	Chip capacitor
443	C9057	T4D	3101051040060	Chip capacitor
444	C9059	B2D	3101051020010	Chip capacitor
445	C9060	B1D	3101061020000	Chip capacitor
446	C9061	B2D	3101051020010	Chip capacitor
447	C9063	B1D	3101054710010	Chip capacitor
448	C9064	B2D	3101051020010	Chip capacitor
449	C9065	B1D	3101051520000	Chip capacitor
450	C9066	B2D	3101051030020	Chip capacitor
451	C9067	B1D	3101055610000	Chip capacitor
452	C9069	B2D	3101054710010	Chip capacitor
453	C9071	B1D	3101051040060	Chip capacitor
454	C9075	T2F	3101054710010	Chip capacitor
455	C9080	T4D	3101051040060	Chip capacitor
456	C9081	T4D	3101054710010	Chip capacitor
457	C9085	B4E	3101051020010	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
458	C9086	B3E	3101051040060	Chip capacitor
459	C9087	T4C	3101053330000	Chip capacitor
460	C9088	T4C	3101051020010	Chip capacitor
461	C9089	T4D	3101051020010	Chip capacitor
462	C9090	B4E	3101051030020	Chip capacitor
463	C9091	B4E	3101051040060	Chip capacitor
464	C9092	T2F	3101051040060	Chip capacitor
465	C9093	T4D	3101051020010	Chip capacitor
466	C9095	T2E	3101051050000	Chip capacitor
467	C9096	T2E	3101054710010	Chip capacitor
468	C9097	B4E	3101051040060	Chip capacitor
469	C9098	T2F	3101054710010	Chip capacitor
470	C9099	B3E	3101051000020	Chip capacitor
471	C9100	T4D	3101050500010	Chip capacitor
472	C9101	B5E	3101050700010	Chip capacitor
473	C9102	T2F	3101051050000	Chip capacitor
474	C9103	B3E	3101051020010	Chip capacitor
475	C9104	B3E	3101051040060	Chip capacitor
476	C9105	B5E	3101050800000	Chip capacitor
477	C9106	T5C	3101052200010	Chip capacitor
478	C9107	B5E	3101051200020	Chip capacitor
479	C9108	T2F	3101051020010	Chip capacitor
480	C9109	T4D	3101050700010	Chip capacitor
481	C9110	B4E	3101051030020	Chip capacitor
482	C9111	T5E	3101051890050	Chip capacitor
483	C9112	T5D	3101065600000	Chip capacitor
484	C9113	T4D	3101050900000	Chip capacitor
485	C9114	T5D	3001052220000	Chip resistor
486	C9115	T5C	3101051200020	Chip capacitor
487	C9116	T5C	3101053690000	Chip capacitor
488	C9117	T5C	3101051000020	Chip capacitor
489	C9118	B3E	3101052700000	Chip capacitor
490	C9120	T5D	3101051000020	Chip capacitor
491	C9121	B4E	3101051020010	Chip capacitor
492	C9122	B3E	3101052700000	Chip capacitor
493	C9128	T5C	3101050400010	Chip capacitor
494	C9129	T5C	3101050700010	Chip capacitor
495	C9131	T5C	3101051500020	Chip capacitor
496	C9133	T5C	3101050400010	Chip capacitor
497	C9134	T4C	3101050800000	Chip capacitor
498	C9135	T5D	3101050400010	Chip capacitor
499	C9136	T4E	3101050400010	Chip capacitor
500	C9137	T5E	3101050700010	Chip capacitor
501	C9138	T4D	3101053330000	Chip capacitor

No.	Ref No.	Print No.	Part No.	Description
502	C9139	T5E	3210305390000	Multi-layer chip inductor
503	C9141	T5E	3101054700010	Chip capacitor
504	C9142	T5E	3101055600000	Chip capacitor
505	D	B3F	6202552000000	VCO shielding mask
506	D101	B1H	3304990000030	Varactor
507	D102	T1G	3304060300050	Varactor
508	D103	T1G	3304060300050	Varactor
509	D104	B2F	3303990000060	Switching diode
510	D105	B2F	3303990000060	Switching diode
511	D106	T1G	3304060300050	Varactor
512	D107	T1G	3304060300050	Varactor
513	D108	B1G	3304990000030	Varactor
514	D109	B1G	3304990000030	Varactor
515	D110	B1H	3304990000030	Varactor
516	D111	B2G	3304010100890	Varactor
517	D112	T2H	3303990000060	Switching diode
518	D301	B6G	3307110100060	LED
519	D303	T1J	3301990000030	Schottky barrier diode
520	D304	T2J	3301990000030	Schottky barrier diode
521	D307	B4K	3399040600020	ESD protection diode
522	D308	B4K	3399040600020	ESD protection diode
523	D309	B4K	3399040600020	ESD protection diode
524	D310	B4K	3399040600020	ESD protection diode
525	D314	B5K	3399040600020	ESD protection diode
526	D317	B5K	3399040600020	ESD protection diode
527	D318	B3K	3310249900000	ESD protection diode
528	D319	B3K	3310249900000	ESD protection diode
529	D320	B3K	3399040600000	ESD protection diode
530	D321	B4J	3399040600000	ESD protection diode
531	D322	T5I	3399040600000	ESD protection diode
532	D401	T3H	3304060300050	Varactor
533	D402	B4G	3304010100220	Varactor
534	D602	B3D	3399040600020	ESD protection diode
535	D603	B4F	3399040600020	ESD protection diode
536	D604	B4H	3303030100010	Switching diode
537	D607	T5H	3303240000000	Switching diode
538	D608	T5H	3399040600000	ESD protection diode
539	D9001	T4D	3304010100180	Varactor
540	D9002	T4D	3303030800040	Switching diode
541	D9005	T4C	3303990000060	Switching diode
542	D9006	T4C	3303990000060	Switching diode
543	D9007	T2F	3303990000060	Switching diode
544	D9008	T2F	3303990000060	Switching diode
545	D9010	B2D	3399990000080	Zener diode

No.	Ref No.	Print No.	Part No.	Description
546	D9011	T2F	3303030100010	Switching diode
547	D9012	T5D	3304010100180	Varactor
548	D9013	T5C	3303030300000	Schottky barrier diode
549	D9014	T5C	3304010100180	Varactor
550	D9015	T5C	3304010100180	Varactor
551	D9016	T5C	3304010100220	Varactor
552	D9017	T5E	3301250300000	Schottky barrier diode
553	E	B4F	6202550000000	DAC shielding mask
554	F	B4G	6202550000000	DAC shielding mask
555	F601	B3D	4099000000050	Fuse
556	F602	B4F	4002000000300	Fuse
557	F603	B4F	4002000000300	Fuse
558	G	B4H	6202555000000	Baseband shielding mask
559	J301	T4I	5201020000020	Board-to-board connector
560	J601	T3E	5208002200220	Battery connector
561	J602	B4K	5201050100030	Board-to-board connector
562	L1001	B5J	3217105150000	Chip inductor
563	L1002	B5I	3221505121000	Bead
564	L101	B2F	3210106390000	Wire-wound inductor
565	L102	B3G	3210306150000	Multi-layer chip inductor
566	L103	B3G	3210306150000	Multi-layer chip inductor
567	L104	T2F	3210106150000	Wire-wound inductor
568	L105	T2F	3210106150000	Wire-wound inductor
569	L106	T2F	3217106471000	Chip inductor
570	L107	B2F	3210106470000	Wire-wound inductor
571	L108	T2G	3217106471000	Chip inductor
572	L109	B2F	3221505121000	Bead
573	L110	T1G	3217106471000	Chip inductor
574	L111	T2G	3217107392000	Chip inductor
575	L112	T1G	3217107390010	Chip inductor
576	L113	T2G	3217106471000	Chip inductor
577	L114	B2G	3217106471000	Chip inductor
578	L115	B1G	3217106471000	Chip inductor
579	L116	B1G	3217106471000	Chip inductor
580	L117	B2H	3217107270010	Wire-wound inductor
581	L118	B2H	3237138889000	Air-core coil
582	L119	B1G	3217106471000	Chip inductor
583	L120	T1G	3221505121010	Bead
584	L121	T2G	3221505121010	Bead
585	L122	T2H	3221505121010	Bead
586	L123	T2H	3221505121010	Bead
587	L124	T1H	3210406471000	Multi-layer chip inductor
588	L201	T3H	3210406471000	Multi-layer chip inductor
589	L202	B4J	3221505121000	Bead

No.	Ref No.	Print No.	Part No.	Description
590	L204	B3I	3221505121000	Bead
591	L205	B3I	3221505121000	Bead
592	L301	B6H	3221505121010	Bead
593	L308	B4J	3221505121010	Bead
594	L309	B2I	3001060000000	Chip resistor
595	L310	B2I	3001060000000	Chip resistor
596	L313	B4K	3221505121010	Bead
597	L315	T4I	3221505121000	Bead
598	L401	T3G	3215099103000	Chip inductor
599	L402	B3E	3210406271000	Multi-layer chip inductor
600	L403	T3G	3221505121010	Bead
601	L404	T3G	3215099103000	Chip inductor
602	L405	B3F	3221505121010	Bead
603	L406	B4G	3217107221020	Wire-wound inductor
604	L407	T4H	3221505121010	Bead
605	L408	T2G	3210407472000	Multi-layer chip inductor
606	L409	B3F	3210406471000	Multi-layer chip inductor
607	L410	T2H	3221505121010	Bead
608	L411	T3H	3217107392000	Chip inductor
609	L412	T2G	3221505121010	Bead
610	L413	B4G	3213306682000	Multi-layer chip inductor
611	L511	T3B	3210305829000	Multi-layer chip inductor
612	L512	T1C	3221505121000	Bead
613	L513	T2C	3221505121000	Bead
614	L514	B3C	3210305399000	Multi-layer chip inductor
615	L515	T1C	3221505121000	Bead
616	L516	T3B	3217105180000	Chip inductor
617	L517	T3B	3297106339000	Wire-wound inductor
618	L518	T3B	3297106339000	Wire-wound inductor
619	L519	T3B	3297106339000	Wire-wound inductor
620	L520	T3C	3215005330000	Multi-layer chip inductor
621	L522	T3C	3210305689000	Multi-layer chip inductor
622	L601	B4G	3221506181000	Bead
623	L602	B3E	3221506181000	Bead
624	L603	B3E	3221506181000	Bead
625	L605	B2E	3221506181000	Bead
626	L606	B2E	3221506181000	Bead
627	L607	T4F	3290299222000	Wire-wound inductor
628	L609	B5H	3221506181000	Bead
629	L610	T4G	3217099153000	Wire-wound inductor
630	L611	B5F	3221506181000	Bead
631	L612	B5G	3221506181000	Bead
632	L613	T4G	3290299222000	Wire-wound inductor
633	L614	T5H	3217099153000	Wire-wound inductor

No.	Ref No.	Print No.	Part No.	Description
634	L615	B5G	3221506181000	Bead
635	L616	B5G	3221506181000	Bead
636	L617	B5G	3221506181000	Bead
637	L620	B4F	3221506181000	Bead
638	L801	T4K	3221505121010	Bead
639	L802	T4K	3221506181000	Bead
640	L803	T4K	3221505121010	Bead
641	L804	T4K	3221505121010	Bead
642	L805	T4K	3221505121010	Bead
643	L820	T3K	3221506601000	Bead
644	L821	T2J	3221505121010	Bead
645	L822	T2J	3221505121010	Bead
646	L9001	T4E	3210106820000	Wire-wound inductor
647	L9002	T3C	3210306820000	Multi-layer chip inductor
648	L9003	T3C	3239999250000	Air-core coil
649	L9004	T4B	3239999250000	Air-core coil
650	L9005	T4B	3233099185900	Air-core coil
651	L9006	T1D	3212106120000	Multi-layer chip inductor
652	L9007	T1D	3212106120000	Multi-layer chip inductor
653	L9008	T2D	3233099470000	Air-core coil
654	L9009	T2E	3210306220000	Multi-layer chip inductor
655	L9010	T2E	3210306330000	Multi-layer chip inductor
656	L9011	T2D	3210209102010	Wire-wound inductor
657	L9012	T4D	3210107221000	Wire-wound inductor
658	L9013	T4C	3233099185900	Air-core coil
659	L9014	T2D	3221506121000	Bead
660	L9015	B1E	3221505121010	Bead
661	L9016	T2C	3212106689000	Multi-layer chip inductor
662	L9017	T4E	3001060000000	Chip resistor
663	L9018	T4E	3001060000000	Chip resistor
664	L9020	B2F	3221505121010	Bead
665	L9022	T5E	3210406331000	Multi-layer chip inductor
666	L9024	T4D	3210406471000	Multi-layer chip inductor
667	L9025	T5C	3210106150000	Wire-wound inductor
668	L9026	B3E	3210106101000	Wire-wound inductor
669	L9027	B4E	3213306821000	Multi-layer chip inductor
670	L9028	T4D	3210106220000	Wire-wound inductor
671	L9030	T5C	3220106399000	Wire-wound inductor
672	L9031	B4C	3001060000000	Chip resistor
673	L9032	B4E	3210306221000	Multi-layer chip inductor
674	L9033	T5D	3237199170000	Air-core coil
675	L9034	T4C	3101054700010	Chip capacitor
676	L9035	T4D	3237199170000	Air-core coil
677	L9036	T5C	3237199170000	Air-core coil

No.	Ref No.	Print No.	Part No.	Description
678	L9037	T5C	3237199170000	Air-core coil
679	L9038	B4E	3210406331000	Multi-layer chip inductor
680	L9039	T5E	3210306820000	Multi-layer chip inductor
681	Q101	B2G	3401002000990	NPN transistor
682	Q102	B3F	3408002000000	NPN transistor
683	Q103	B2F	3403999000000	Composite transistor
684	Q104	T2G	3408002000080	NPN transistor
685	Q105	B2F	3403003000060	NPN transistor
686	Q106	B2F	3403999000000	Composite transistor
687	Q107	B2F	3403999000000	Composite transistor
688	Q108	B2G	3408002000080	NPN transistor
689	Q401	B3F	3403003000060	NPN transistor
690	Q403	B3F	3408002000000	NPN transistor
691	Q601	T4J	3403999000000	Composite transistor
692	Q604	B5H	3503020000030	N-MOSFET
693	Q605	B4F	3505990000040	P-MOSFET
694	Q606	B5F	3503020000030	N-MOSFET
695	Q802	T4J	3403009000010	Composite transistor
696	Q9001	T5D	3418001000010	NPN transistor
697	Q9002	T2E	3408002000000	NPN transistor
698	Q9003	T2D	3504990000040	PA MOSFET
699	Q9004	T1E	3406001000090	NPN transistor
700	Q9005	T1D	3504990000010	PA MOSFET
701	Q9006	B1E	3410001000020	PNP transistor
702	Q9007	B1E	3403008000010	BRT
703	Q9008	B1E	3403008000010	BRT
704	Q9017	B4E	3404006000000	NPN transistor
705	Q9018	B4E	3404006000000	NPN transistor
706	Q9019	B2E	3403999000000	Composite transistor
707	Q9020	B2D	3403999000000	Composite transistor
708	Q9021	T1F	3401001000490	PNP transistor
709	Q9022	B4C	3403999000000	Composite transistor
710	Q9023	B4F	3403999000000	Composite transistor
711	R1002	B5I	3001053390000	Chip resistor
712	R101	B2G	3001055600000	Chip resistor
713	R102	B2F	3001051030000	Chip resistor
714	R103	B3F	3001051000000	Chip resistor
715	R104	T2F	3001051020000	Chip resistor
716	R105	B2H	3001051030000	Chip resistor
717	R106	B3F	3001055620000	Chip resistor
718	R107	B2F	3001053910000	Chip resistor
719	R108	T2F	3001053320000	Chip resistor
720	R109	B3H	3001051040000	Chip resistor
721	R110	T2F	3001058220000	Chip resistor

No.	Ref No.	Print No.	Part No.	Description
722	R111	T2F	3001051010000	Chip resistor
723	R112	B2G	3001051840000	Chip resistor
724	R113	B2F	3001054710000	Chip resistor
725	R114	B2F	3001053320000	Chip resistor
726	R115	T2G	3001051510000	Chip resistor
727	R116	B2F	3001054720000	Chip resistor
728	R117	B1G	3001053920000	Chip resistor
729	R118	B1G	3001058220000	Chip resistor
730	R119	B2G	3001051010000	Chip resistor
731	R120	B2G	3001052020020	Chip resistor
732	R121	B2G	3001058200000	Chip resistor
733	R122	B2G	3001054720000	Chip resistor
734	R123	B2G	3001051030000	Chip resistor
735	R124	B3G	3001054720000	Chip resistor
736	R125	B3H	3001061330000	Chip resistor
737	R126	B3G	3001053320000	Chip resistor
738	R128	B2H	3001056820000	Chip resistor
739	R129	B1G	3001051030000	Chip resistor
740	R130	T2H	3001051000000	Chip resistor
741	R131	T2H	3221505121010	Bead
742	R132	T2G	3001052210000	Chip resistor
743	R133	T2H	3001051030000	Chip resistor
744	R134	T2H	3001051000000	Chip resistor
745	R136	T1H	3001051020010	Chip resistor
746	R138	T1H	3001051020010	Chip resistor
747	R140	T1H	3001052220000	Chip resistor
748	R142	B2H	3001051030000	Chip resistor
749	R143	B2F	3001053320000	Chip resistor
750	R144	B2G	3001053320000	Chip resistor
751	R145	B1H	3001053330000	Chip resistor
752	R146	B1H	3001053330000	Chip resistor
753	R147	B4I	3001051020000	Chip resistor
754	R150	B3H	3001051020000	Chip resistor
755	R203	T4H	3001051000000	Chip resistor
756	R206	B3J	3001051000000	Chip resistor
757	R207	T2J	3001053300000	Chip resistor
758	R208	T2J	3001051030000	Chip resistor
759	R209	B4I	3001051000000	Chip resistor
760	R210	B3I	3001051030000	Chip resistor
761	R211	B3I	3001050000000	Chip resistor
762	R212	B4I	3001051020000	Chip resistor
763	R213	B4I	3001051020000	Chip resistor
764	R220	T2I	3001051010000	Chip resistor
765	R221	T2I	3001051010000	Chip resistor

No.	Ref No.	Print No.	Part No.	Description
766	R222	T2I	3001051010000	Chip resistor
767	R251	T2J	3001051040000	Chip resistor
768	R254	T2J	3001050000000	Chip resistor
769	R255	B2I	3001053300000	Chip resistor
770	R258	B6I	3001051030000	Chip resistor
771	R259	B2I	3001053300000	Chip resistor
772	R260	B2I	3001051520000	Chip resistor
773	R261	B2I	3001051530010	Chip resistor
774	R262	B2I	3001051530010	Chip resistor
775	R264	B2I	3001051030000	Chip resistor
776	R266	T2J	3001053300000	Chip resistor
777	R267	T2J	3001051010000	Chip resistor
778	R268	B3H	3001051010000	Chip resistor
779	R269	T4G	3001051010000	Chip resistor
780	R270	B4J	3001051020000	Chip resistor
781	R273	B4J	3001051020000	Chip resistor
782	R276	B4I	3001051020000	Chip resistor
783	R277	T4I	3001051030000	Chip resistor
784	R281	B4I	3001051030000	Chip resistor
785	R282	B4I	3001051030000	Chip resistor
786	R301	B6I	3001051040000	Chip resistor
787	R304	B6I	3001051040000	Chip resistor
788	R305	B6G	3001051040000	Chip resistor
789	R306	B6G	3001054720000	Chip resistor
790	R307	B6G	3001054720000	Chip resistor
791	R308	B6G	3001054720000	Chip resistor
792	R327	T2I	3001053320000	Chip resistor
793	R328	T2I	3001053320000	Chip resistor
794	R329	T1I	3001051030000	Chip resistor
795	R330	T1I	3001051030000	Chip resistor
796	R333	T2J	3001051020000	Chip resistor
797	R335	T2J	3001051850000	Chip resistor
798	R336	T2J	3001051850000	Chip resistor
799	R342	B4J	3001051040000	Chip resistor
800	R343	B4J	3001051040000	Chip resistor
801	R401	T2G	3001055100020	Chip resistor
802	R402	B4G	3001051030000	Chip resistor
803	R403	B3G	3001051020010	Chip resistor
804	R404	T4G	3001056810000	Chip resistor
805	R405	T4G	3001051030000	Chip resistor
806	R407	B3G	3001058220000	Chip resistor
807	R408	B3F	3001051010000	Chip resistor
808	R409	B3F	3001054720000	Chip resistor
809	R410	B3F	3001051030050	Chip resistor

No.	Ref No.	Print No.	Part No.	Description
810	R411	B3G	3001053910000	Chip resistor
811	R412	T3H	3001051040000	Chip resistor
812	R413	T3H	3001055620000	Chip resistor
813	R414	T3H	3001052720010	Chip resistor
814	R415	T3H	3001061030010	Chip resistor
815	R416	T3H	3001058210000	Chip resistor
816	R506	T2B	3001051040000	Chip resistor
817	R507	T2B	3001051040000	Chip resistor
818	R508	B2C	3001054720000	Chip resistor
819	R509	T2C	3001051040000	Chip resistor
820	R510	T3C	3001051000000	Chip resistor
821	R511	T2B	3001051000000	Chip resistor
822	R514	T2B	3001051030050	Chip resistor
823	R515	T2B	3001051530010	Chip resistor
824	R520	B1C	3001051030050	Chip resistor
825	R521	B1C	3001051010000	Chip resistor
826	R522	B1C	3001051010000	Chip resistor
827	R523	B2C	3001050000000	Chip resistor
828	R525	T2B	3001050000000	Chip resistor
829	R528	T2C	3001050000000	Chip resistor
830	R601	T5G	3001057520080	Chip resistor
831	R607	T4K	3001052030000	Chip resistor
832	R611	B3E	3001051030000	Chip resistor
833	R612	T4K	3001051030050	Chip resistor
834	R613	B4F	3001051050000	Chip resistor
835	R614	B4G	3001051040000	Chip resistor
836	R615	B4F	3001053940010	Chip resistor
837	R616	B5F	3001051050000	Chip resistor
838	R617	T4G	3001056840000	Chip resistor
839	R618	T5G	3001052040010	Chip resistor
840	R619	B5F	3001054740010	Chip resistor
841	R621	B4H	3001054730010	Chip resistor
842	R623	T4G	3001051330000	Chip resistor
843	R627	T5I	3001051020000	Chip resistor
844	R630	T5I	3001051020000	Chip resistor
845	R631	B5H	3001051530010	Chip resistor
846	R632	B5H	3001051020000	Chip resistor
847	R633	B4H	3001051040000	Chip resistor
848	R634	B4H	3001052730000	Chip resistor
849	R635	B4H	3001054730010	Chip resistor
850	R701	B3H	3001050000000	Chip resistor
851	R702	B3G	3001056830000	Chip resistor
852	R704	B3H	3001051010000	Chip resistor
853	R705	B3H	3001051030050	Chip resistor

No.	Ref No.	Print No.	Part No.	Description
854	R706	B3H	3001051030050	Chip resistor
855	R707	B4G	3001053330000	Chip resistor
856	R709	B3H	3001051040000	Chip resistor
857	R710	B3H	3001051040000	Chip resistor
858	R711	B4G	3001051030000	Chip resistor
859	R712	B3G	3221505121010	Bead
860	R713	B3G	3001051010000	Chip resistor
861	R714	B4G	3001051030000	Chip resistor
862	R801	T4K	3001051000000	Chip resistor
863	R802	T4K	3001051540000	Chip resistor
864	R803	T4K	3001051540000	Chip resistor
865	R806	T4K	3001051000000	Chip resistor
866	R807	T4K	3001052030000	Chip resistor
867	R808	T3K	3001051030000	Chip resistor
868	R809	T3K	3001051030000	Chip resistor
869	R810	T3K	3001051030000	Chip resistor
870	R811	T3K	3001051030000	Chip resistor
871	R812	T3J	3001051540000	Chip resistor
872	R813	T3J	3001051540000	Chip resistor
873	R814	T4J	3001051840000	Chip resistor
874	R823	T2J	3001051030050	Chip resistor
875	R824	T2K	3001058220010	Chip resistor
876	R826	T2K	3001054330000	Chip resistor
877	R827	T3K	3001051020000	Chip resistor
878	R828	T2K	3001051530010	Chip resistor
879	R829	T3J	3001054740010	Chip resistor
880	R830	T2K	3001053330000	Chip resistor
881	R831	B4K	3001051020000	Chip resistor
882	R832	T2K	3001051020000	Chip resistor
883	R833	B4K	3001051020000	Chip resistor
884	R834	T3K	3001051020000	Chip resistor
885	R835	B3J	3001051040000	Chip resistor
886	R836	T5J	3001050000000	Chip resistor
887	R837	T5J	3001051030050	Chip resistor
888	R838	T2K	3001051020000	Chip resistor
889	R839	T3J	3001051020000	Chip resistor
890	R840	T5I	3001051030050	Chip resistor
891	R841	T5J	3001051030050	Chip resistor
892	R9001	T5E	3001052710010	Chip resistor
893	R9002	T2E	3001054730010	Chip resistor
894	R9003	T5E	3001052710010	Chip resistor
895	R9004	T3D	3233099100000	Air-core coil
896	R9005	T5E	3001055690000	Chip resistor
897	R9006	T3B	3001051030000	Chip resistor

No.	Ref No.	Print No.	Part No.	Description
898	R9007	T2E	3001058200000	Chip resistor
899	R9008	T1E	3001051520000	Chip resistor
900	R9009	T1D	3001053300000	Chip resistor
901	R9010	T4C	3001051030000	Chip resistor
902	R9011	T2E	3001051010000	Chip resistor
903	R9012	T2E	3001051010000	Chip resistor
904	R9013	T2E	3001053320000	Chip resistor
905	R9015	T2E	3001053310000	Chip resistor
906	R9016	T2D	3001051510000	Chip resistor
907	R9017	T2C	3001051010000	Chip resistor
908	R9018	T2E	3001056810000	Chip resistor
909	R9019	T4D	3001050000000	Chip resistor
910	R9020	T2F	3001054720000	Chip resistor
911	R9021	T1E	3001054700000	Chip resistor
912	R9022	T2E	3001052200000	Chip resistor
913	R9023	T2D	3001056220000	Chip resistor
914	R9024	T2D	3001056820000	Chip resistor
915	R9025	T4D	3001052710010	Chip resistor
916	R9027	T2D	3001058220000	Chip resistor
917	R9028	T4D	3001052710010	Chip resistor
918	R9029	T2D	3001053910010	Chip resistor
919	R9033	B2D	3001051020000	Chip resistor
920	R9035	T2F	3001051030000	Chip resistor
921	R9036	B2E	3001051030000	Chip resistor
922	R9038	B2D	3001051020000	Chip resistor
923	R9039	B1E	3001051010000	Chip resistor
924	R9040	B4H	3001051020000	Chip resistor
925	R9041	B1E	3001054720000	Chip resistor
926	R9042	T2F	3001053320000	Chip resistor
927	R9043	B2D	3001053330000	Chip resistor
928	R9044	T2F	3001053320000	Chip resistor
929	R9045	B2D	3001051050000	Chip resistor
930	R9046	B2D	3001055100020	Chip resistor
931	R9047	B1D	3001053910000	Chip resistor
932	R9048	B2D	3001051540000	Chip resistor
933	R9049	B4C	3001051030000	Chip resistor
934	R9050	B1D	3001054730010	Chip resistor
935	R9053	B3D	3099080398010	Chip resistor
936	R9054	B3D	3099080398010	Chip resistor
937	R9055	B3D	3099080398010	Chip resistor
938	R9057	B1D	3001051540000	Chip resistor
939	R9058	B1D	3001051050000	Chip resistor
940	R9059	B1D	3001054740010	Chip resistor
941	R9063	T4D	3001051030050	Chip resistor

No.	Ref No.	Print No.	Part No.	Description
942	R9066	B4E	3001051520000	Chip resistor
943	R9067	B3E	3001056820000	Chip resistor
944	R9068	B2E	3001053320000	Chip resistor
945	R9071	B4E	3001053310000	Chip resistor
946	R9072	T4D	3001051030050	Chip resistor
947	R9073	T4D	3001051030050	Chip resistor
948	R9074	T4D	3001051030000	Chip resistor
949	R9075	B4E	3001055100020	Chip resistor
950	R9076	T5C	3001051030050	Chip resistor
951	R9077	T5C	3001051030050	Chip resistor
952	R9078	B4E	3001055620000	Chip resistor
953	R9079	B4E	3001053330000	Chip resistor
954	R9080	T5D	3101051010030	Chip capacitor
955	R9081	B4E	3001051030000	Chip resistor
956	R9083	T4D	3001053310000	Chip resistor
957	R9084	B4E	3001055630000	Chip resistor
958	R9085	B4E	3001051040000	Chip resistor
959	R9089	T5D	3001055620000	Chip resistor
960	R9090	T5C	3001051030050	Chip resistor
961	R9095	T2F	3001053320000	Chip resistor
962	R9096	T2F	3001053320000	Chip resistor
963	R9097	T2E	3001053320000	Chip resistor
964	R9098	T2E	3001053320000	Chip resistor
965	R9099	T4D	3217105010000	Wire-wound inductor
966	RN101	B1H	3005054730000	Integrated resistor
967	RN258	B3I	3005051010010	Integrated resistor
968	RN502	T2B	3005051040000	Integrated resistor
969	RN503	T2B	3005051040000	Integrated resistor
970	RT601	T5G	3003061040000	Thermistor
971	T9001	T5E	5406000000200	Transformer
972	T9002	T4E	5406000000200	Transformer
973	U1001	B5I	3609999011080	Bluetooth chip
974	U1002	B5J	3801244160000	Ceramic filter
975	U102	B2H	3605002057290	Operational amplifier
976	U103	T2H	3604019000000	PLL IC
977	U105	B1H	3616093000000	Switch IC
978	U201	B3J	3610010000010	MCU
979	U242	B2K	3612044000010	Memory
980	U244	B2J	3612999000290	Memory
981	U310	T1I	3609042000000	Sensor
982	U311	T2J	3609006006030	Real-time clock
983	U325	B4J	3805000000030	EMI filter
984	U326	B4J	3805000000030	EMI filter
985	U327	B4J	3805000000030	EMI filter

No.	Ref No.	Print No.	Part No.	Description
986	U328	T4I	3805000000030	EMI filter
987	U329	T4J	3805000000030	EMI filter
988	U330	T4I	3805000000030	EMI filter
989	U401	T3G	3603999000000	IF processor
990	U501	B2C	3609999008540	GPS chip
991	U502	T3B	3609008000000	GPS low-noise amplifier
992	U504	T1C	3608015005620	Power management IC
993	U505	T2C	3701163640010	TCXO
994	U510	T1C	3608015005610	Power management IC
995	U511	T2C	3626006000010	Reset IC
996	U601	T4G	3608011000050	Power management IC
997	U604	B3E	3608020005750	Power management IC
998	U605	B2E	3608020005750	Power management IC
999	U606	B5G	3608006000040	Power management IC
1000	U607	T5I	3609010000170	Reset IC
1001	U608	B4G	3608015000220	Power management IC
1002	U609	B5G	3608006000000	Power management IC
1003	U610	B5G	3608006000030	Power management IC
1004	U611	T5G	3608011000050	Power management IC
1005	U612	B4G	3608006000000	Power management IC
1006	U701	B4H	3606010000010	D/A converter
1007	U801	T4K	3602023005740	Audio amplification IC
1008	U820	T3K	3616037000020	Switch IC
1009	U821	T2K	3613010000000	Baseband processor
1010	U9002	B1D	3605025000020	Operational amplifier
1011	U9003	B2D	5404000000060	Sensor
1012	X1001	B4I	3701002660070	Crystal
1013	X101	T2H	3701019250030	TCXO
1014	X201	T1J	3701327710010	Crystal
1015	X203	T3H	3701019250040	TCXO
1016	X501	B3C	3701327710010	Crystal
1017	Z304	B4K	3805000000040	EMI filter
1018	Z305	T5I	3805000000040	EMI filter
1019	Z306	B4K	3805000000040	EMI filter
1020	Z502	T3C	3804157560000	GPS filter
1021	Z503	T3B	3804157560000	GPS filter
1022	Z9001	B5E	3802733540030	Crystal filter
1023	/	/	/	Main board

7.2 FPC for 50-Pin Interface

No.	Ref No.	Part No.	Description
1	C1	3101051040060	0.1UF
2	C4	3101051040060	0.1UF
3	C5	3101051040060	0.1UF
4	C11	3101052710000	270PF
5	C2	3101052710000	270PF
6	C3	3101052710000	270PF
7	C6	3101052710000	270PF
8	C7	3101052710000	270PF
9	C8	3101052710000	270PF
10	C9	3101052710000	270PF
11	D1	3303990000010	Switching diode
12	D10	3399040600020	ESD protection diode
13	D11	3399040600020	ESD protection diode
14	D2	3399040600020	ESD protection diode
15	D4	3399040600020	ESD protection diode
16	D3	3399040600000	ESD protection diode
17	D6	3399040600000	ESD protection diode
18	D5	3399040600010	ESD protection diode
19	D8	3399040600010	ESD protection diode
20	D9	3399040600010	ESD protection diode
21	J2	5201020000080	Board-to-board connector
22	J3	5201016000030	Board-to-board connector
23	J4	5201050000030	Board-to-board connector
24	L1	3221506181000	Bead
25	Q1	3403009000010	Composite transistor
26	Q2	3511990000010	N-MOSFET
27	R3	3001051040010	100KΩ
28	R4	3001051040010	100KΩ
29	R7	3001051040010	100KΩ
30	R5	3099063018000	3.01Ω
31	R6	3001052220000	2.2KΩ
32	U1	3608006000030	Power management IC
33	Q3	3403008000010	BRT
34	R1	3001051510010	150Ω
35	R2	3001051010000	100Ω
36	R8	3001051010000	100Ω
37	/	/	50PIN FPC

7.3 FPC for PTT

No.	Ref No.	Part No.	Description
1	C1201	3101052710000	270PF
2	C1202	3101052710000	270PF
3	C1203	3101052710000	270PF
4	C1204	3101052710000	270PF
5	C1205	3101052710000	270PF
6	C1206	3101052710000	270PF
7	C1208	3101052710000	270PF
8	C1401	3101052710000	270PF
9	D1002	3307120200010	LED
10	D1201	3399040600000	ESD protection diode
11	D1202	3399040600000	ESD protection diode
12	D1203	3399040600020	ESD protection diode
13	D1204	3399040600020	ESD protection diode
14	J1201	5201016100040	Board-to-board connector
15	J1202	5201020100040	Board-to-board connector
16	L1201	3001060000000	0Ω
17	L1202	3001060000000	0Ω
18	R1402	3001050000000	0Ω
19	R1404	3001050000000	0Ω
20	S1401	4301080000170	Momentary contact switch
21	/	/	FPC

7.4 PCB for PTT

No.	Ref No.	Part No.	Description
1	/	/	PCB for PTT keyboard
2	J1301	5201020200040	Board-to-board connector

7.5 FPC for Accessory

No.	Ref No.	Part No.	Description
1	C1402	3101052710000	270PF
2	C1403	3101052710000	270PF
3	C1404	3101052710000	270PF
4	C1405	3101052710000	270PF
5	J1401	5201020100040	Board-to-board connector
6	J1402	5201020100110	Board-to-board connector
7	/	/	FPC

7.6 PCB for Accessory

No.	Ref No.	Part No.	Description
1	/	/	Audio accessory interface board
2	J1501	5201020200040	Board-to-board connector

8. Disassembly and Assembly

This section describes how to disassemble the product. To assemble it, please perform the following steps in a reverse way.

⚠ Caution

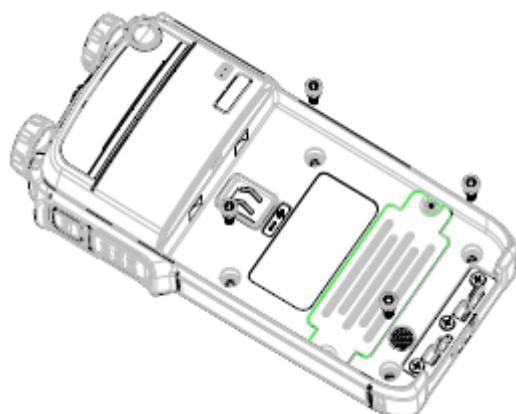
Please position the waterproof ring properly during reassembly.

After reassembly, please use our waterproofness tester to test the waterproof performance of X1e.

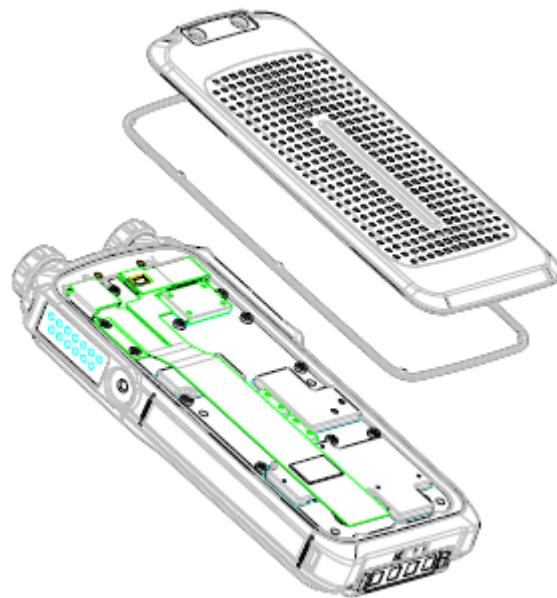
Step 1 Tear down the Logo label and remove the two screws.



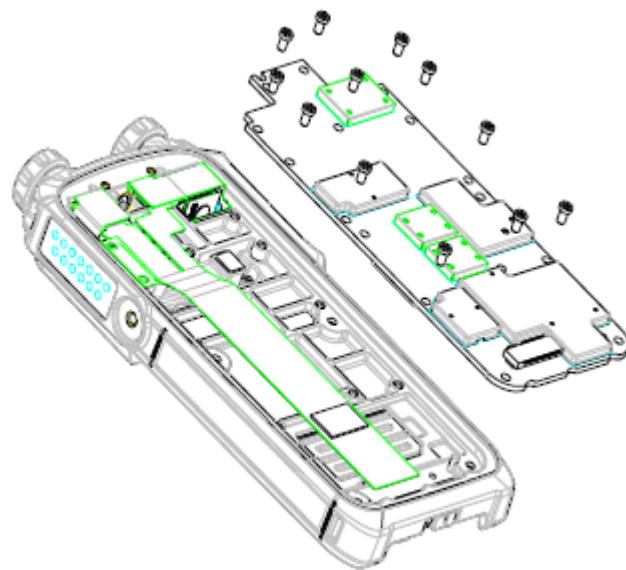
Step 2 Remove the battery and unfasten the four screws.



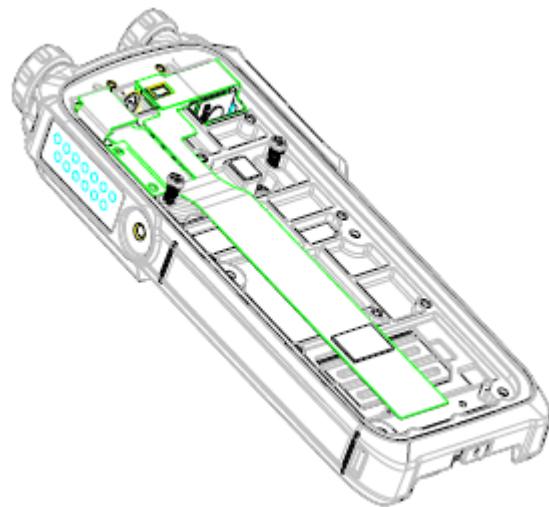
Step 3 Remove the front cover.



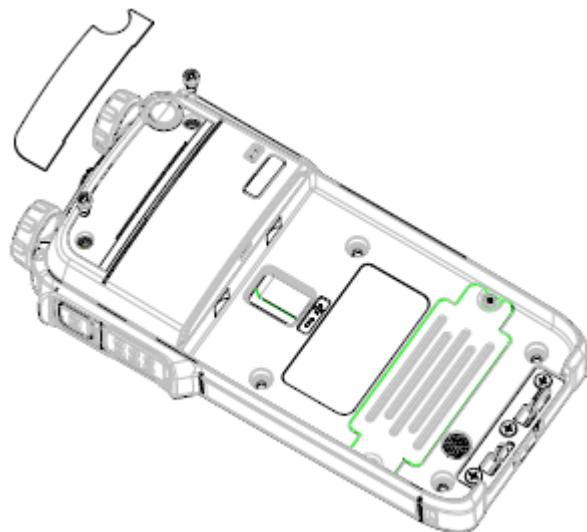
Step 4 Remove the BTB connector on the FPC, and remove the main board after unfastening the screws.



Step 5 Remove the two screws near the speaker.

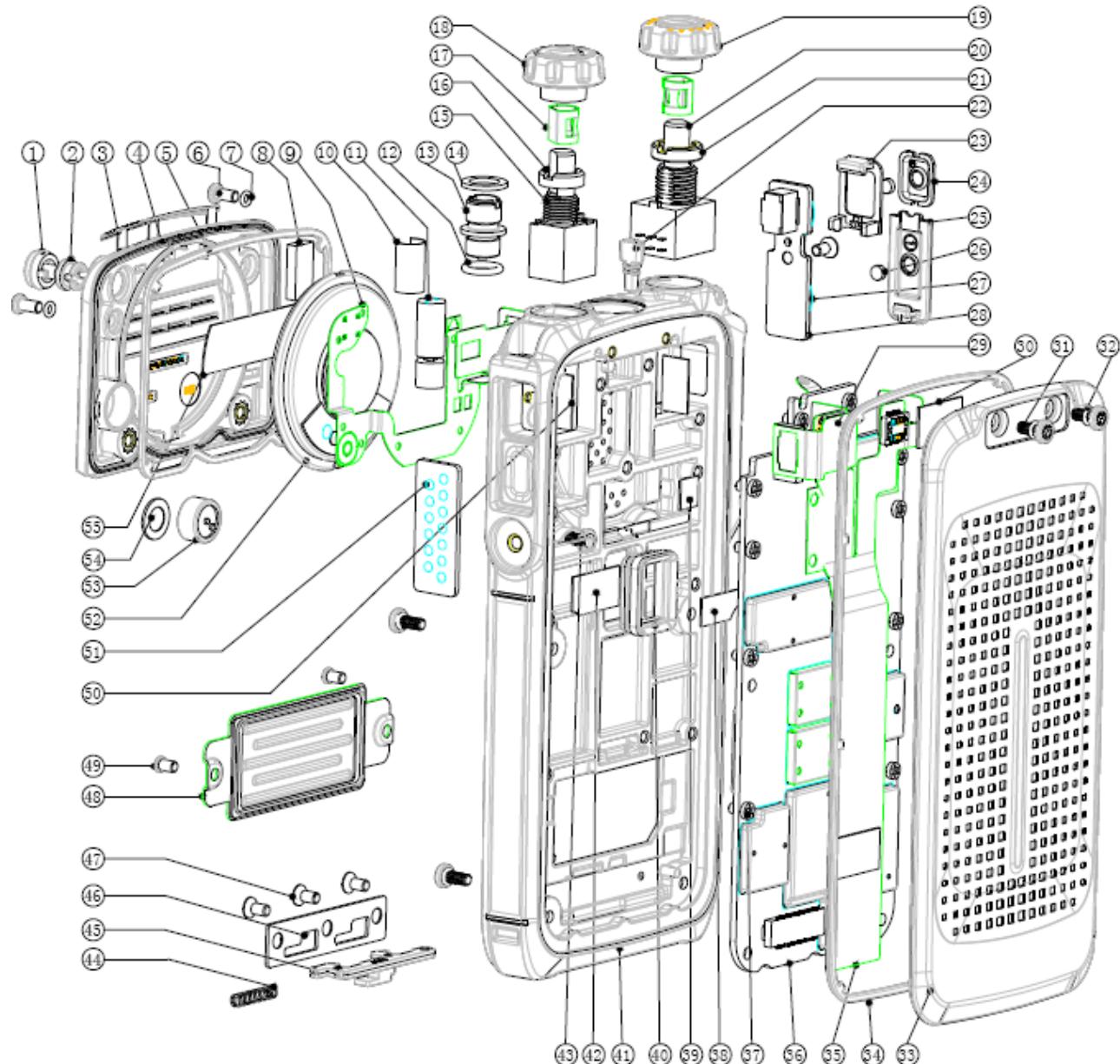


Step 6 Tear down the label on the speaker and remove the two screws.



Step 7 Remove the rear cover.

9. Exploded View



No.	Part No.	Description	Qty.
1	6100724100010	Emergency key	1
2	6001449000000	Bracket for emergency key	1
3	6202486000000	Speaker felt	1
4	6001485000010	Rear case (plastic)	1
5	6100725100000	Waterproof ring for rear cover	1
6	7102004000020	Machine screw	2
7	6100761000000	O-ring	2
8	7500476000000	PORON pad	2
9	/	PTT FPC	1
10	7500351000000	Double-sided adhesive tape	1
11	5402000000150	Motor	1
12	6100370000000	O-ring	1
13	4400200003000	SMA RF connector	1
14	6100730000000	Rubber pad for antenna	1
15	4302020000150	Volume switch	1
16	7206002500210	Nut for volume switch	1
17	6201739000000	Inner lining for knob	2
18	6001441000000	Volume control knob	1
19	6001440000000	Encoder knob	1
20	4304030000050	Rotary switch	1
21	7207002500100	Nut for encoder switch	1
22	6100727000000	Light guide (transparent silicone rubber)	1
23	6001445000000	Bracket for PTT	1
24	6001446000000	Cover for programmable key	1
25	6001444000000	Cover for PTT key	1

No.	Part No.	Description	Qty.
26	6100729000000	Rubber pad for PTT key	2
27	7300086000000	Metal dome for PTT key	1
28	1300000X10080	Small board for PTT	1
29	1300000X10060	Accessory FPC	1
30	7500504000000	PORON pad for PTT FPC	3
31	6100527100000	Waterproof ring for screw	6
32	7102004000200	Machine screw	6
33	6001442000010	Front case (plastic)	1
34	6100726101000	Waterproof ring for front case	1
35	/	Main FPC	1
36	/	Main board	1
37	7101903220100	Self-tapping screw	12
38	7600066000000	Wave absorbing material	1
39	7500325000000	Heat sink pad	1
40	6100728100000	Waterproof ring for battery connector	1
41	6300149000010	Aluminum chassis	1
42	7600065000000	Wave absorbing material	1
43	7102504000300	Machine screw	2
44	7000168000000	Spring	1
45	6300151000010	Battery locker	1
46	6202483000010	Cover for battery locker	1
47	7102004000500	Machine screw	4
48	6100760000000	Waterproof ring for SIM card cover	1
49	7102004001100	Machine screw	2
50	7400209000000	PC sheet	2

No.	Part No.	Description	Qty.
51	1300000X10070	PCB for small board	1
52	5001210100340	Speaker	1
43	5002990000030	Microphone	1
54	7400184000000	Waterproof MIC net	1
55	7400411000000	Speaker felt	1

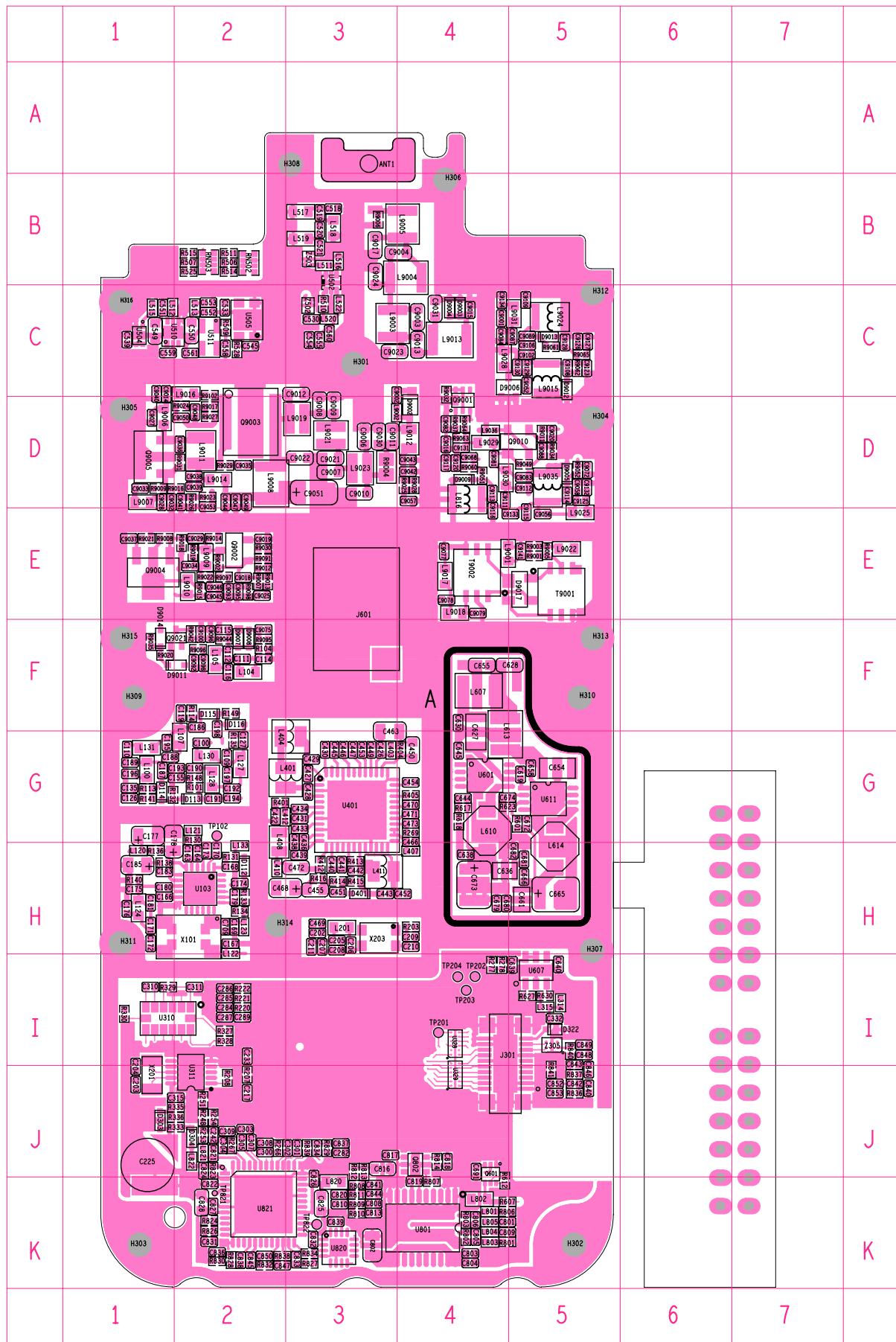
10. Packing Guide



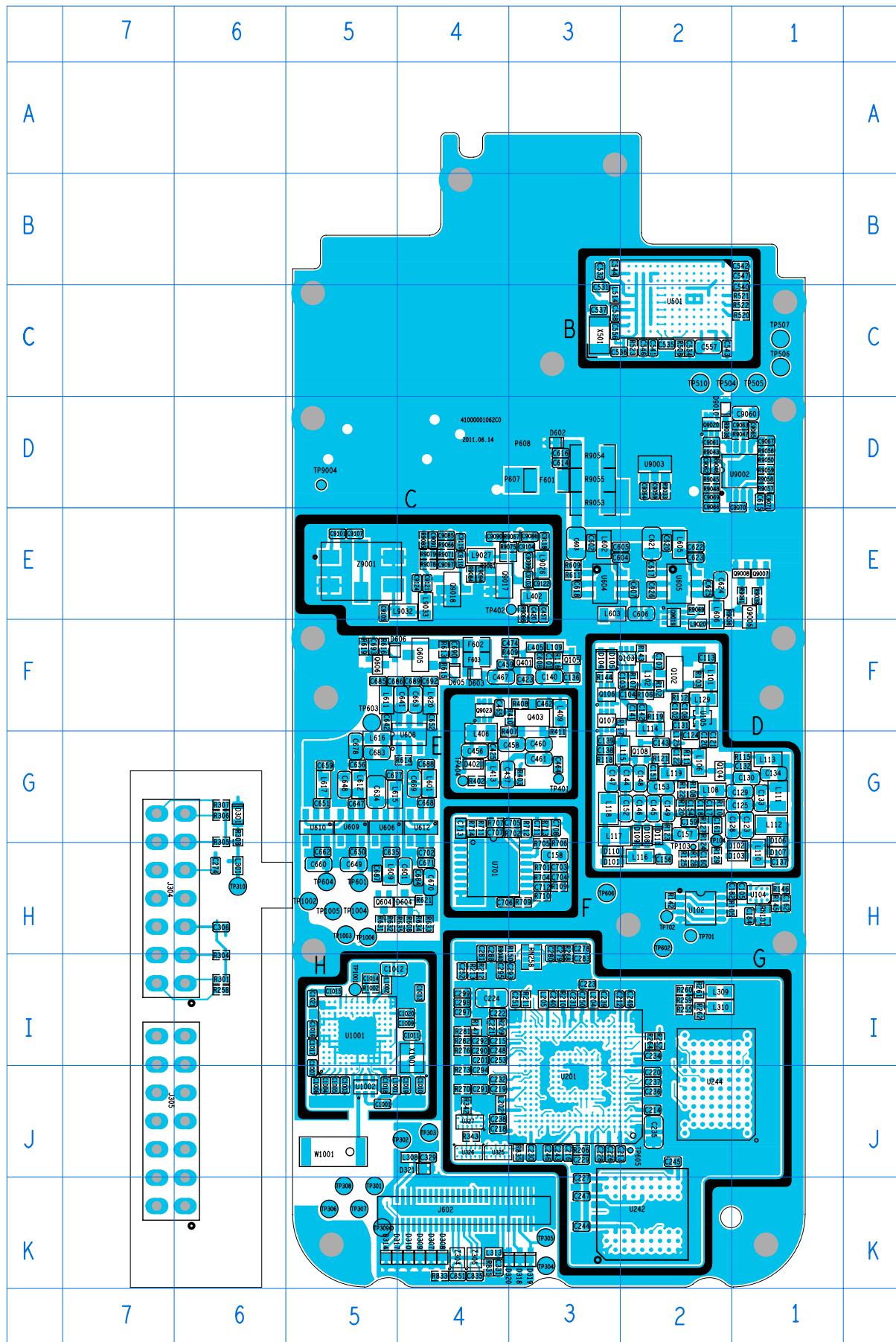
11. PCB View

11.1 Main Board (VHF)

Top Layer

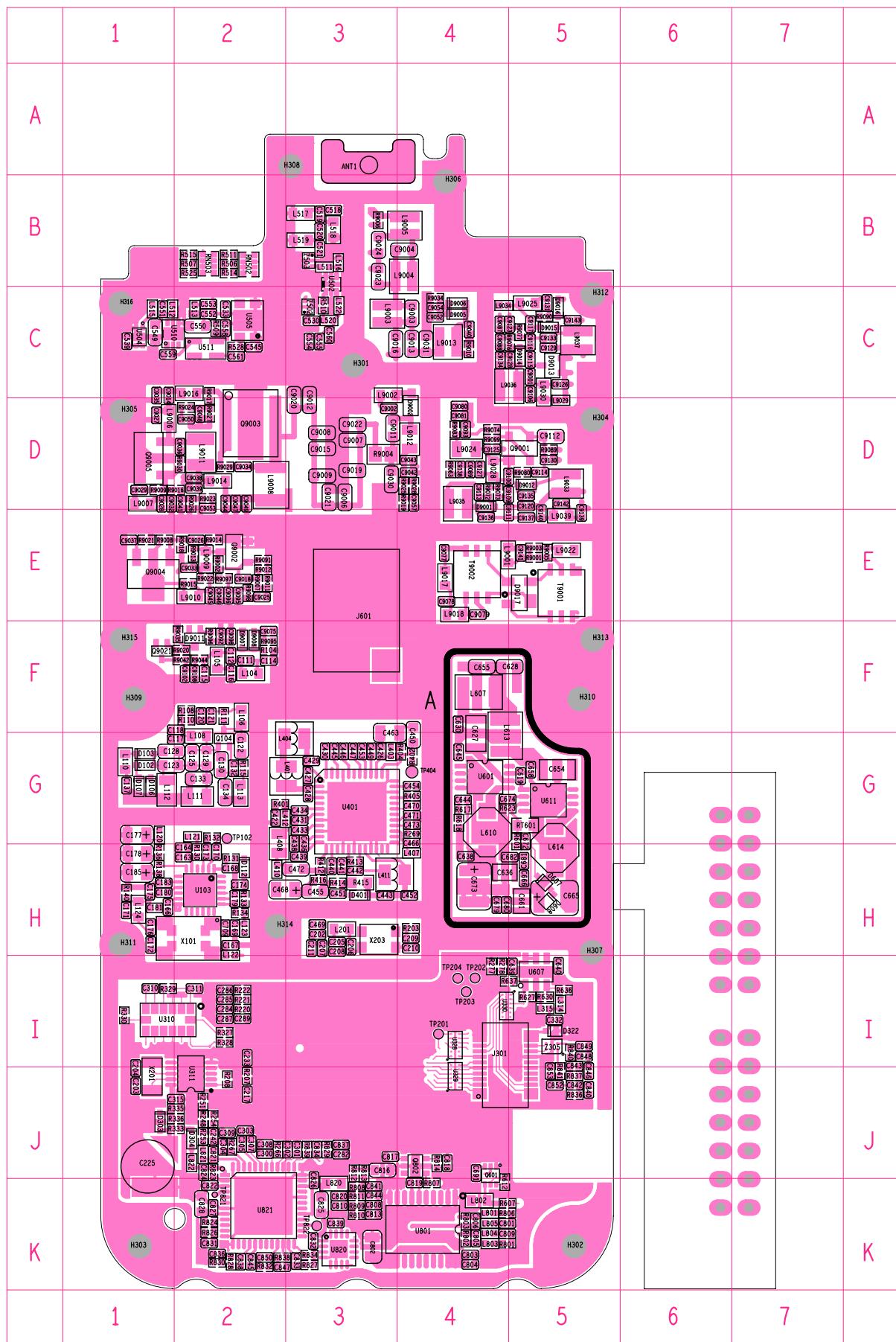


Bottom Layer

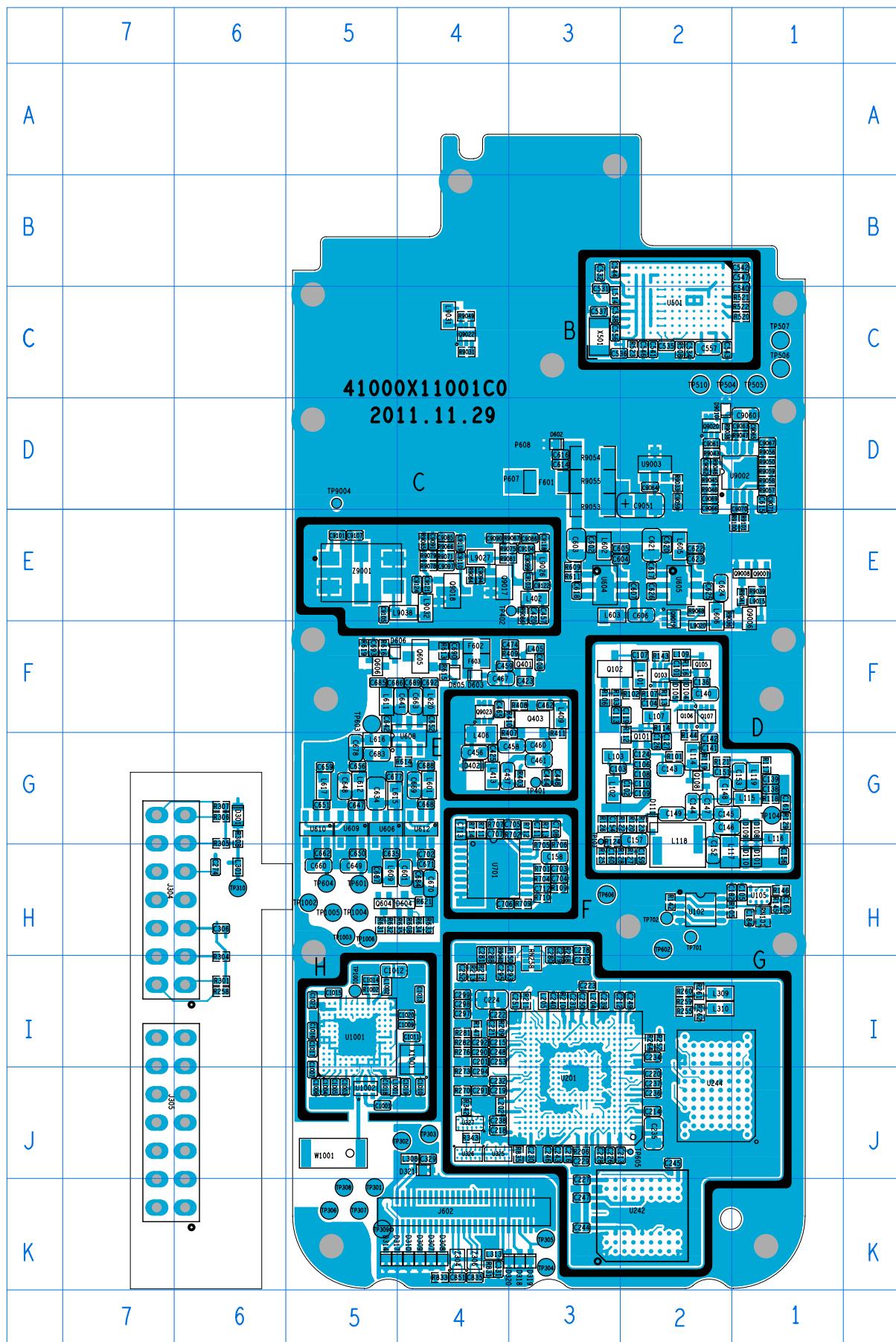


11.2 Main Board (UHF1&UHF3)

Top Layer

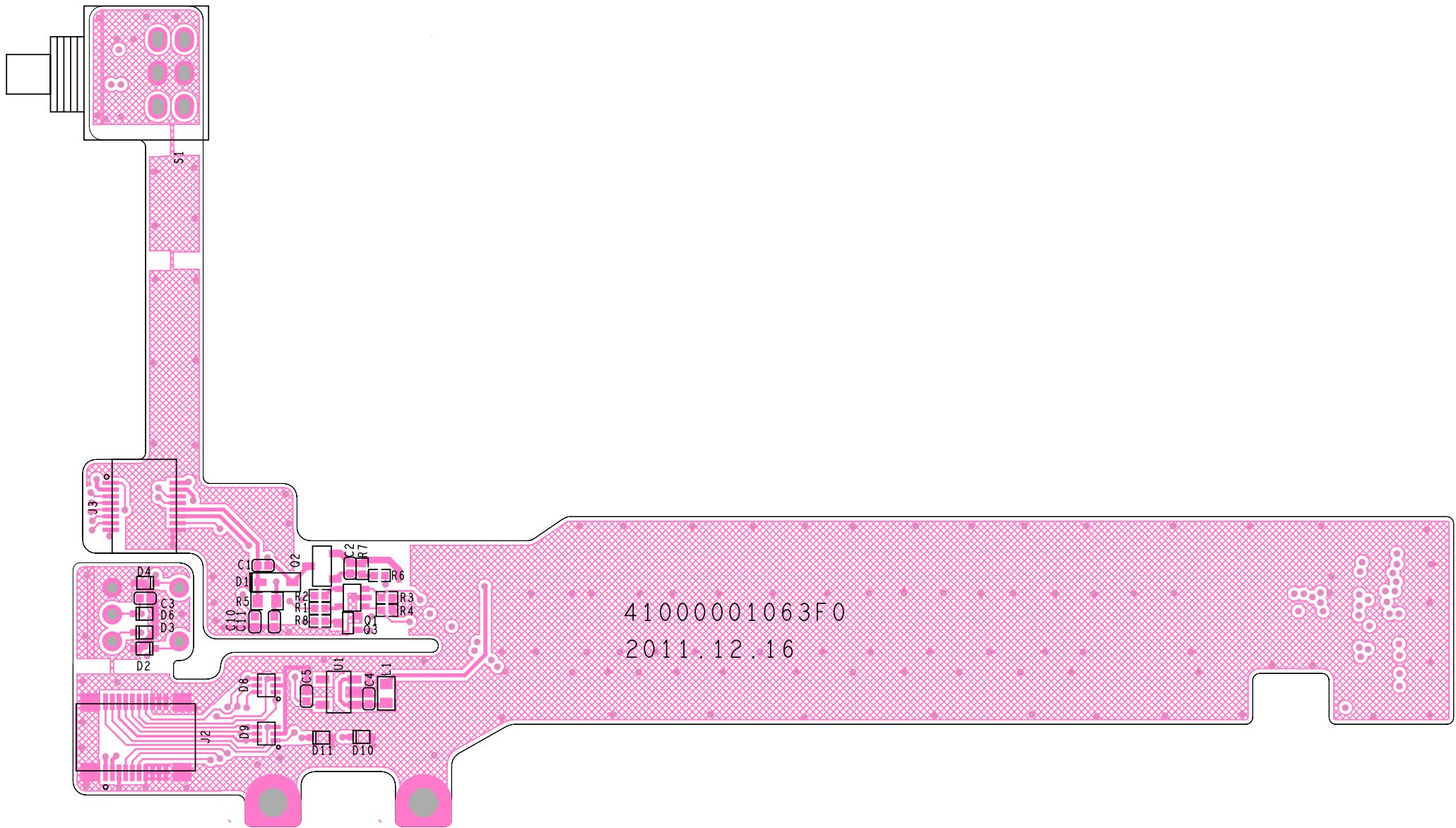


Bottom Layer

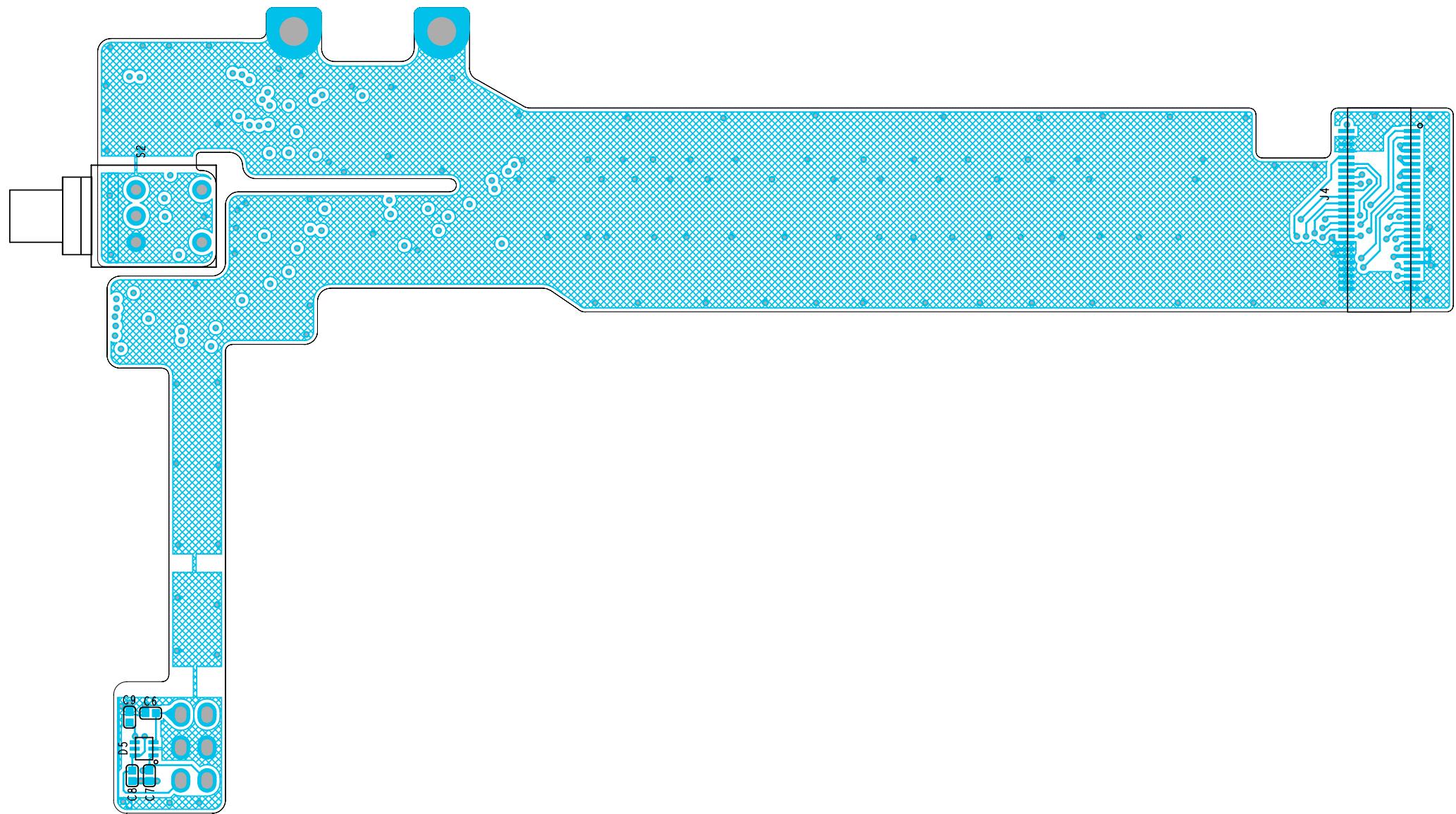


11.3 Main Board (50-Pin FPC)

Top Layer



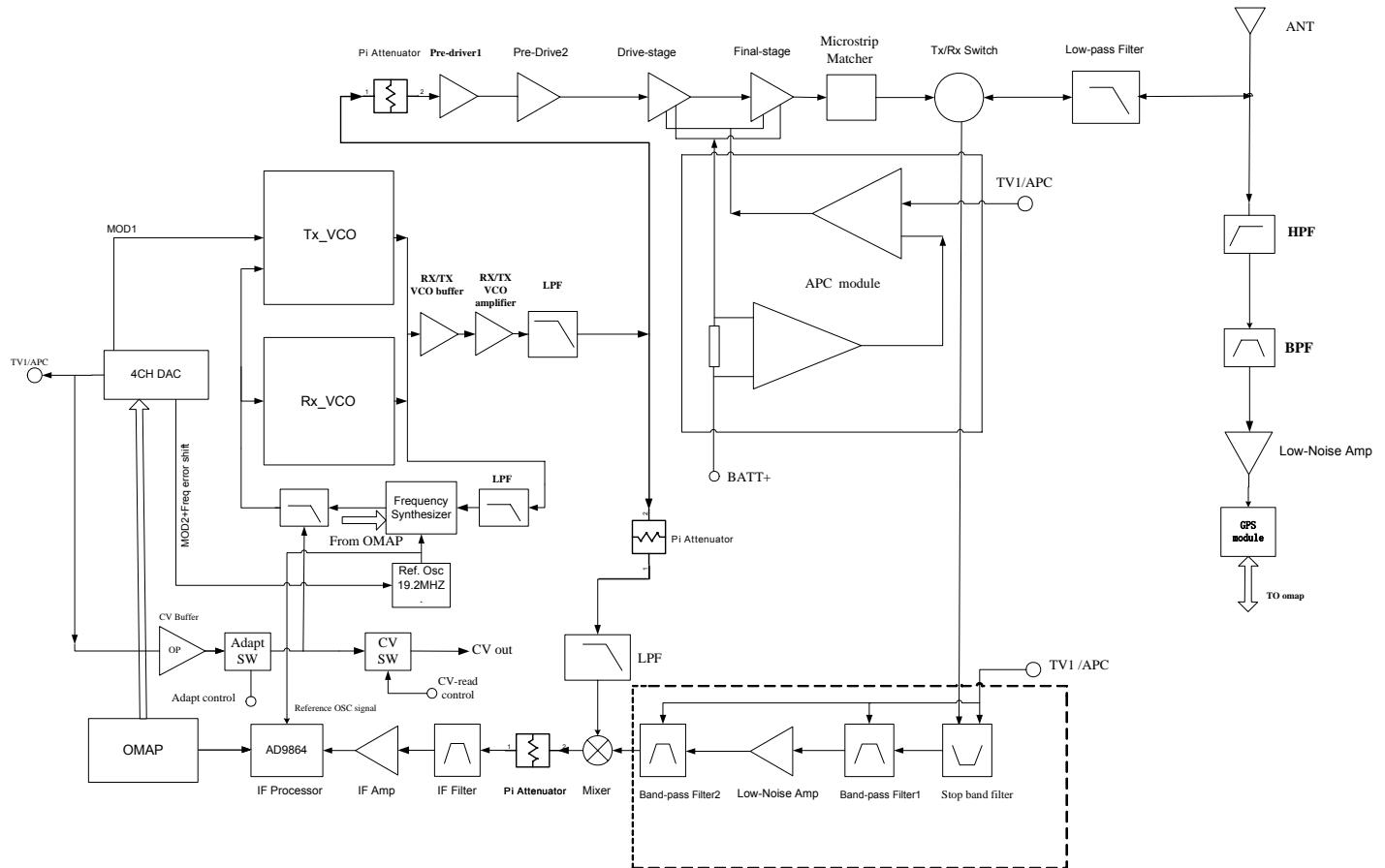
Bottom Layer



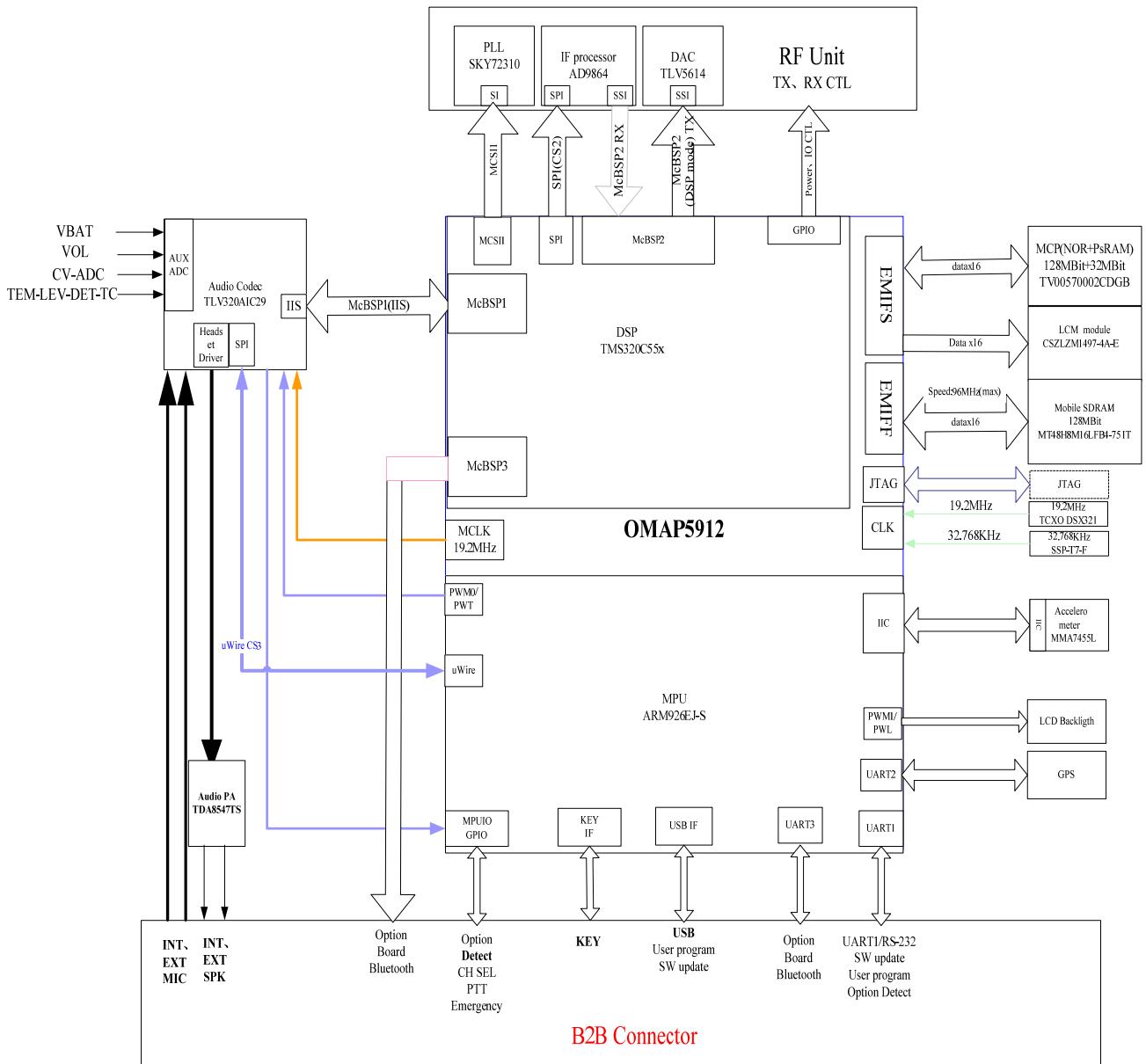
12. Block Diagram

12.1 VHF

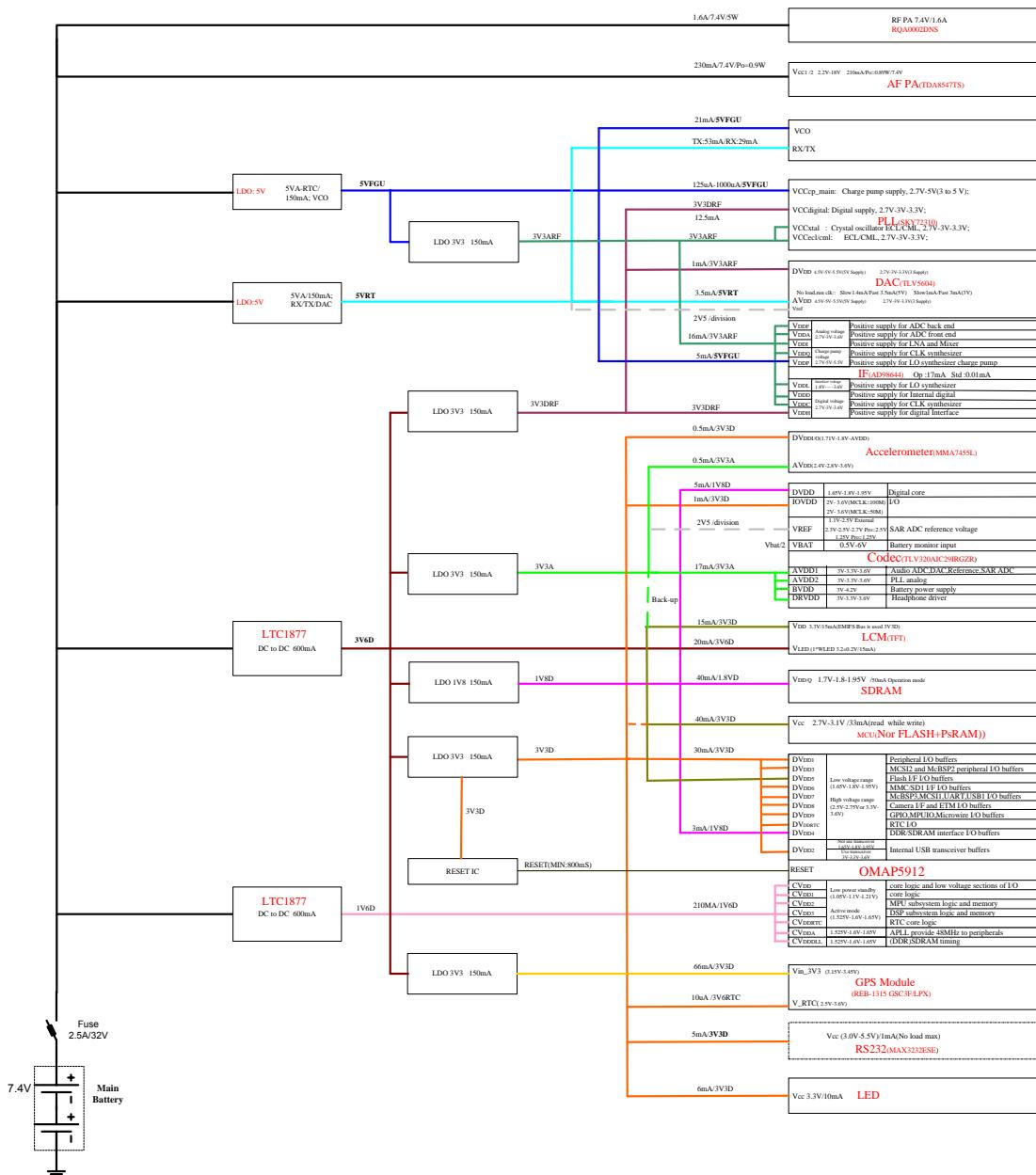
RF System_VHF



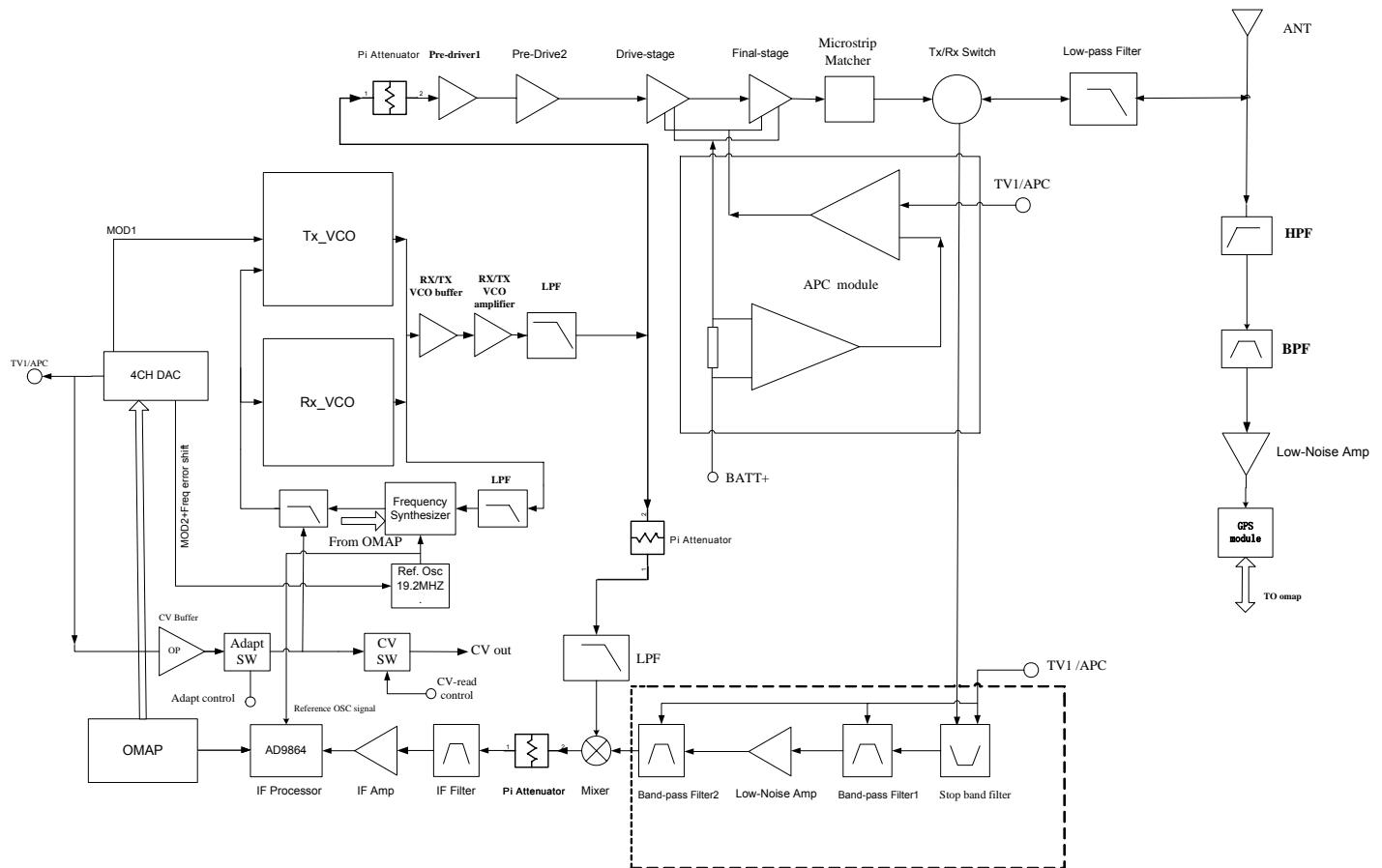
BB System_VHF



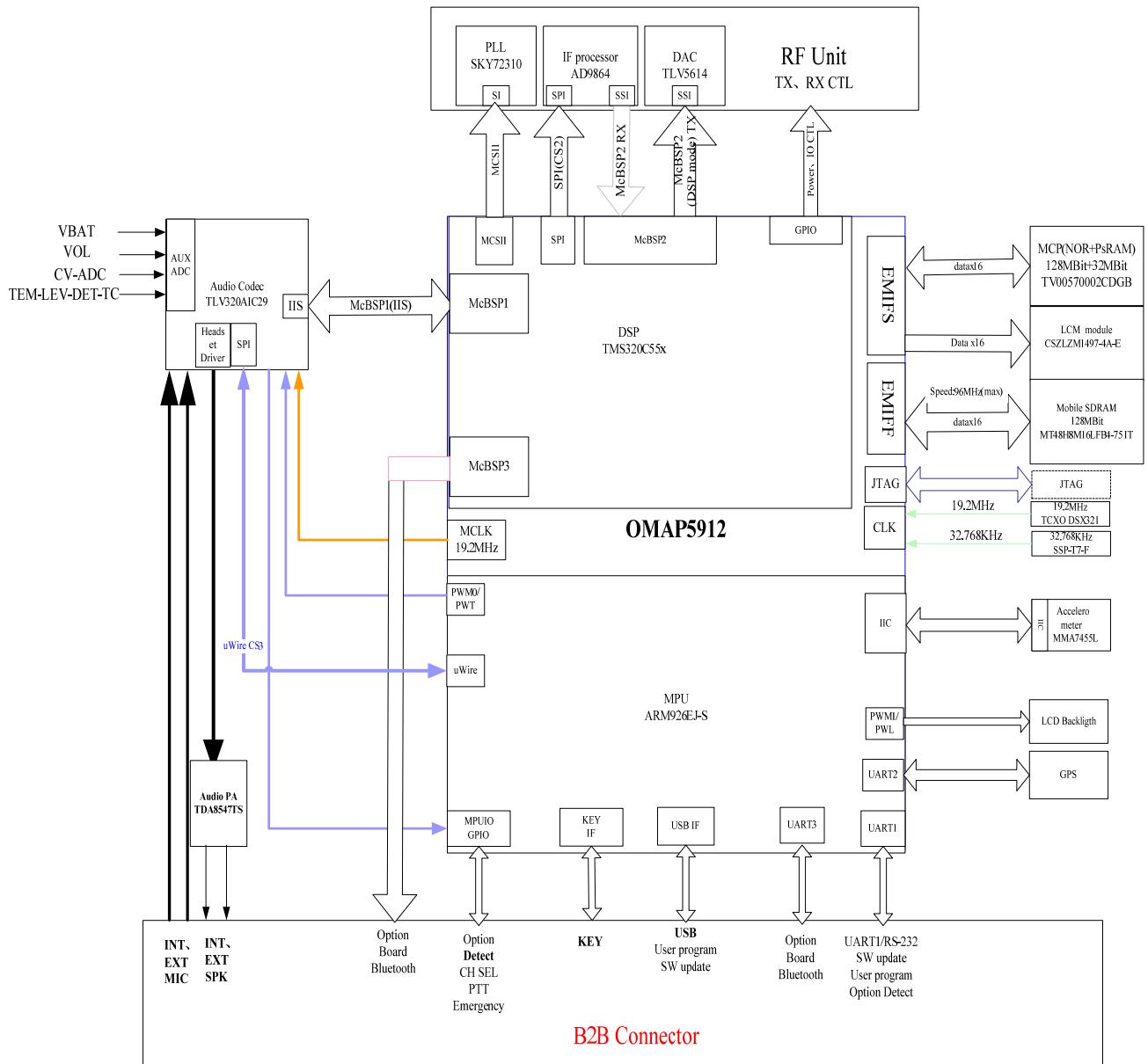
Power System_VHF



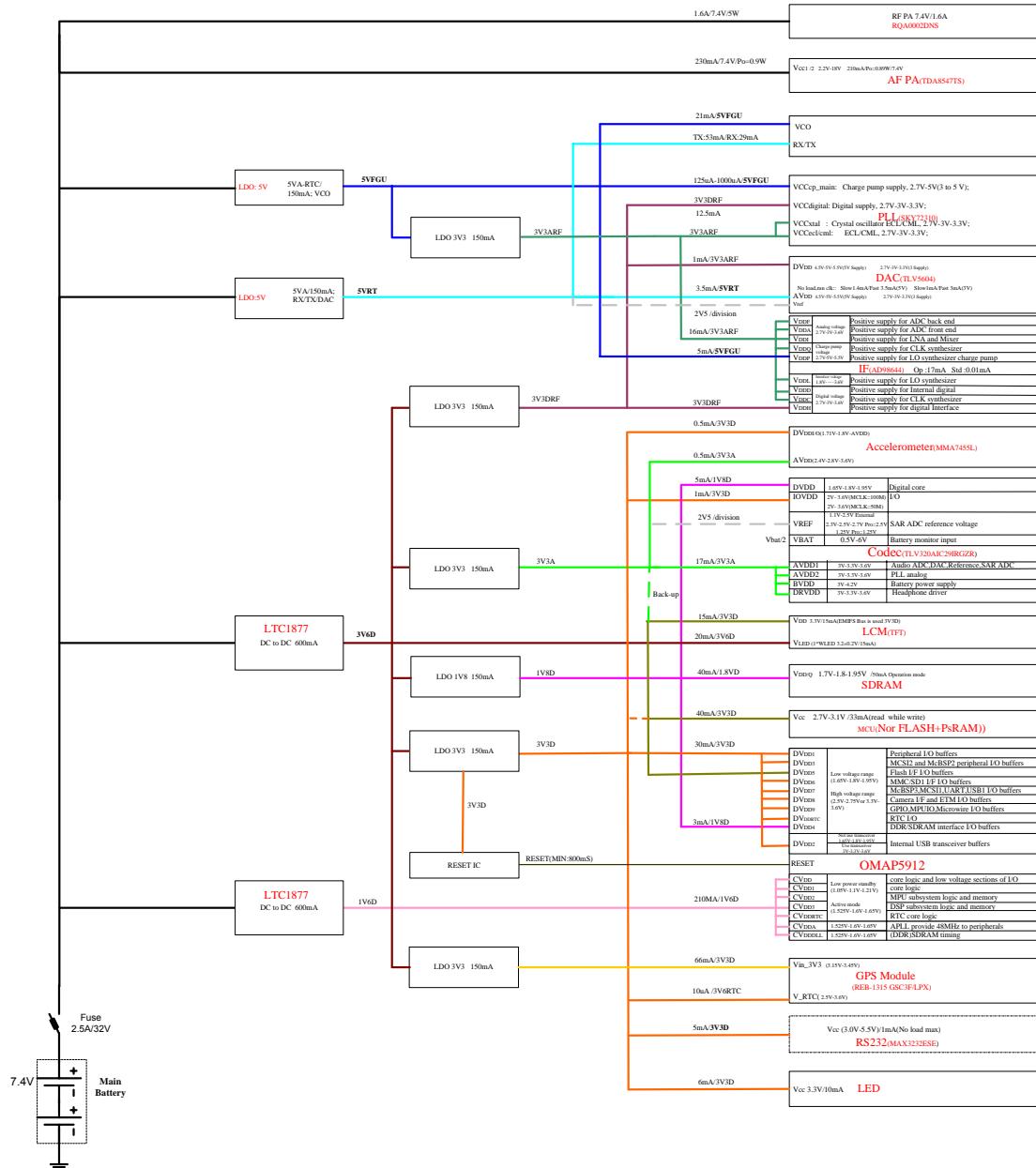
RF System_UHF1



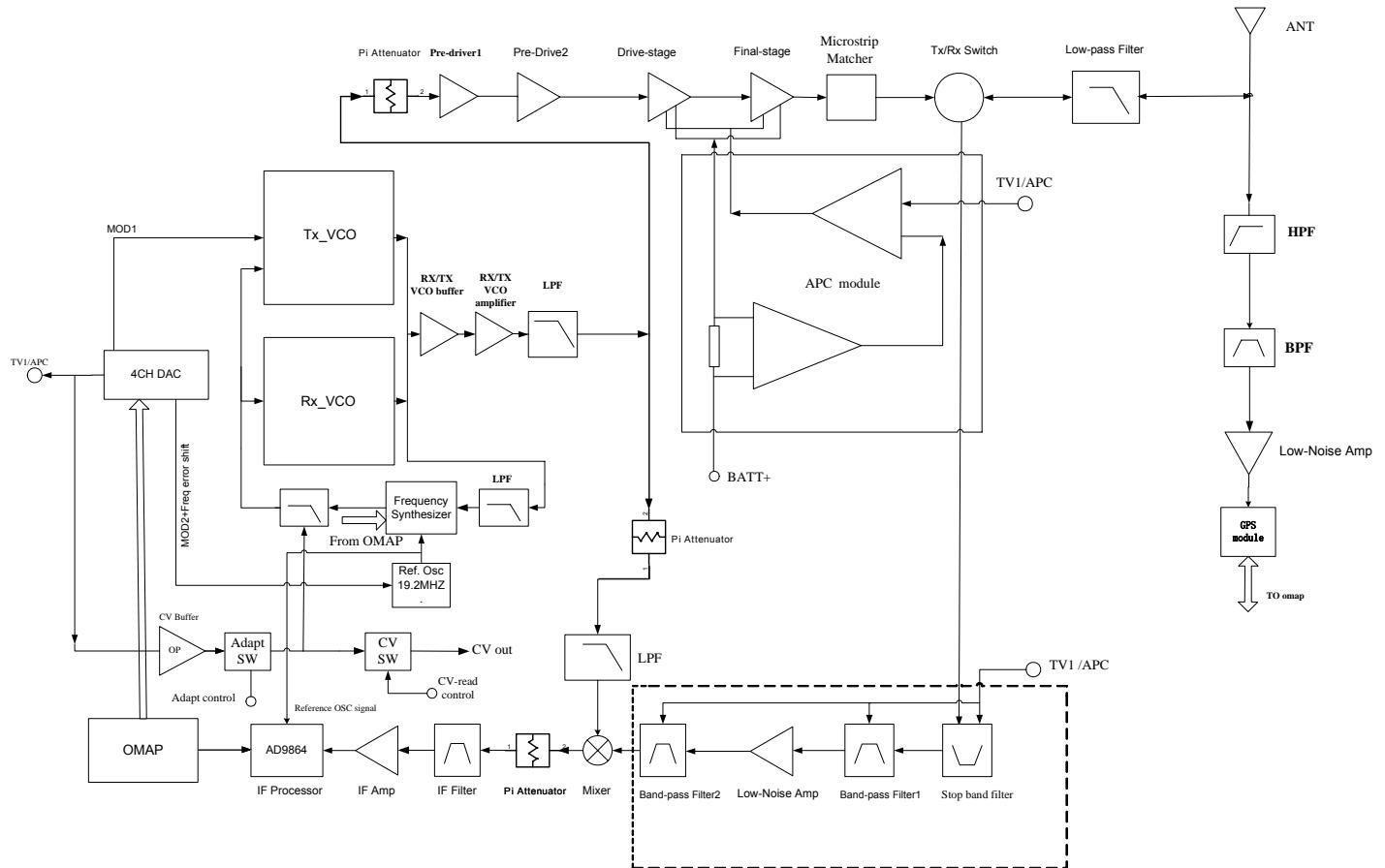
BB System_UHF1



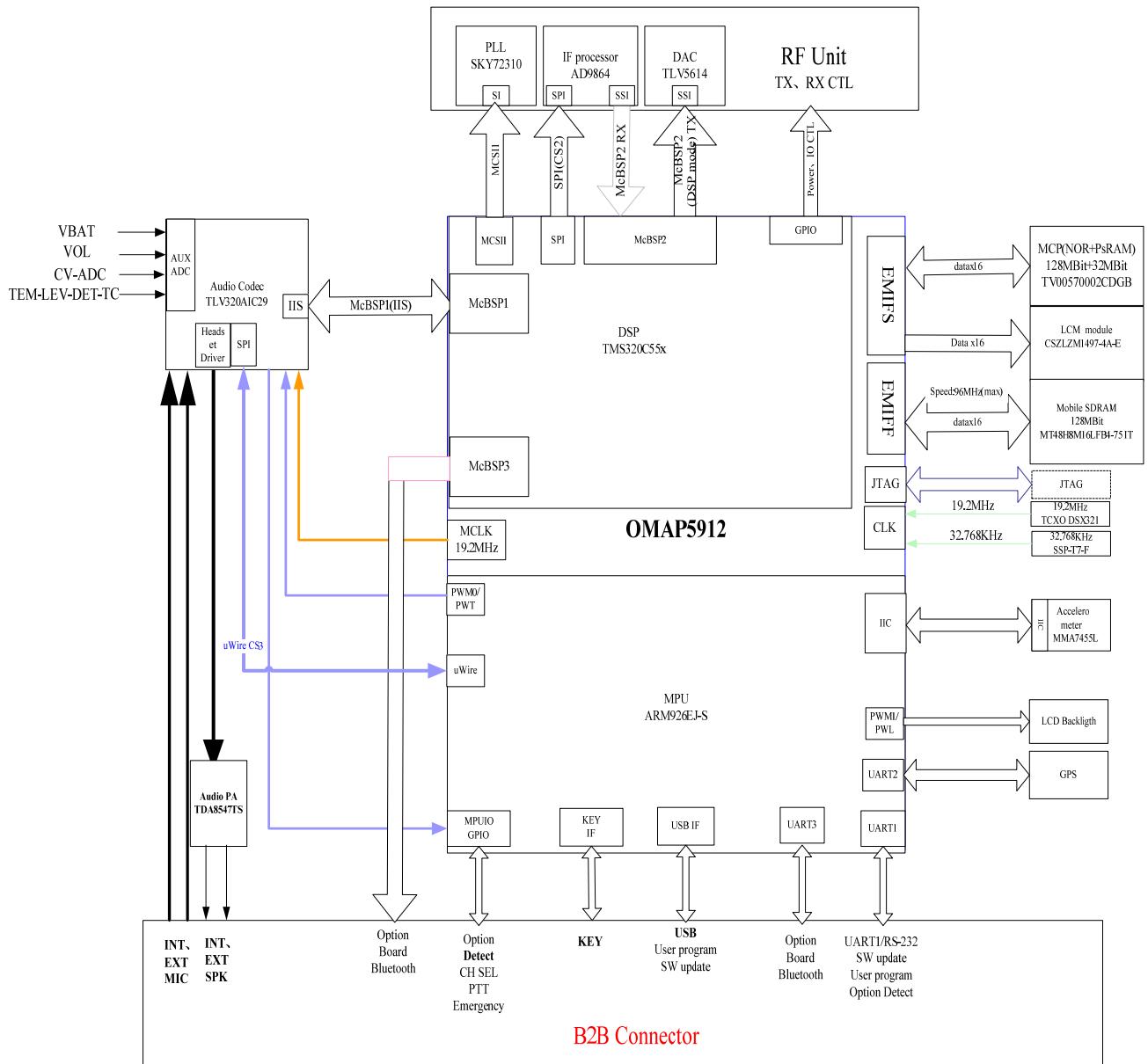
Power System_UHF1



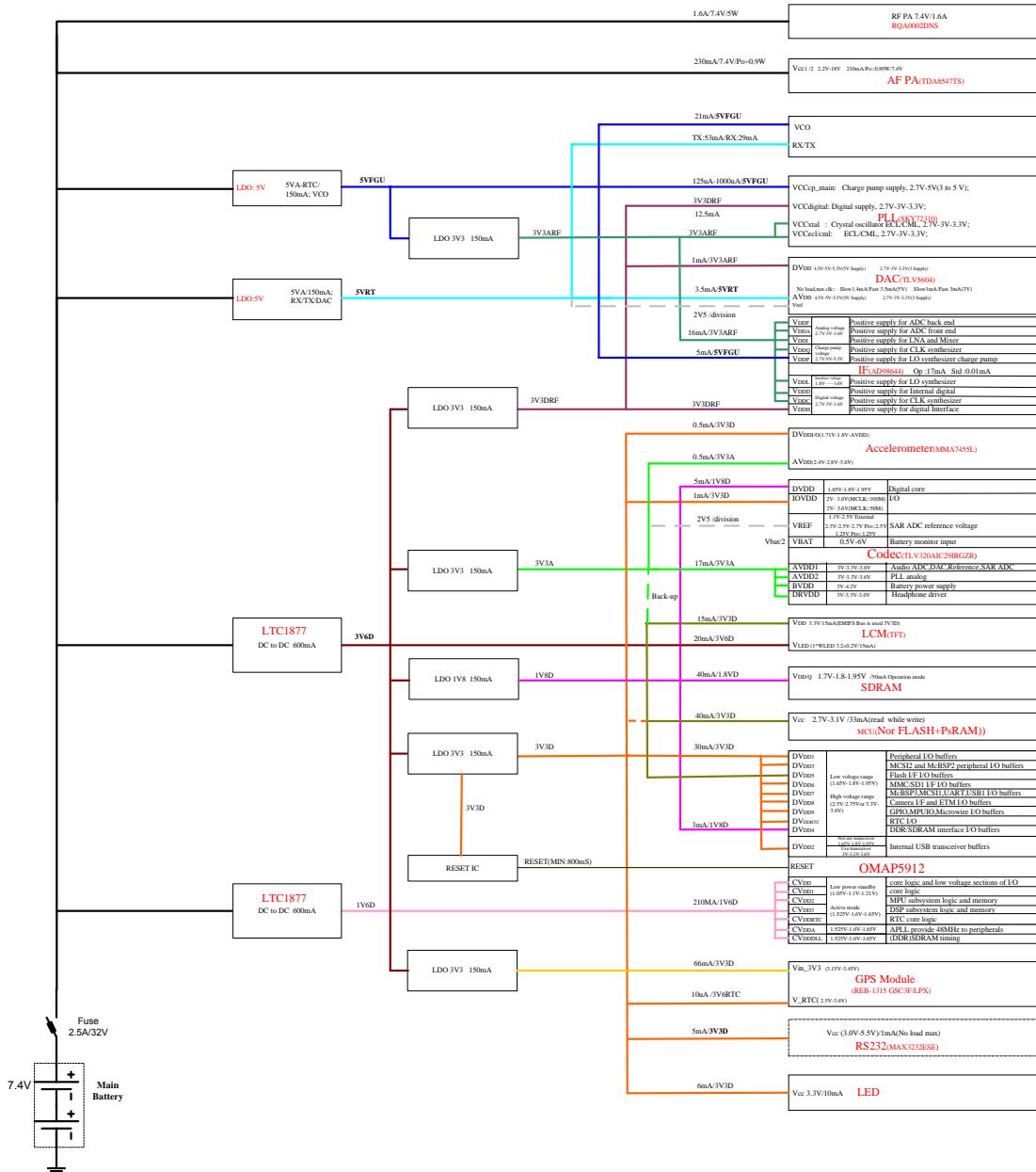
RF System_UHF3



BB System_UHF3



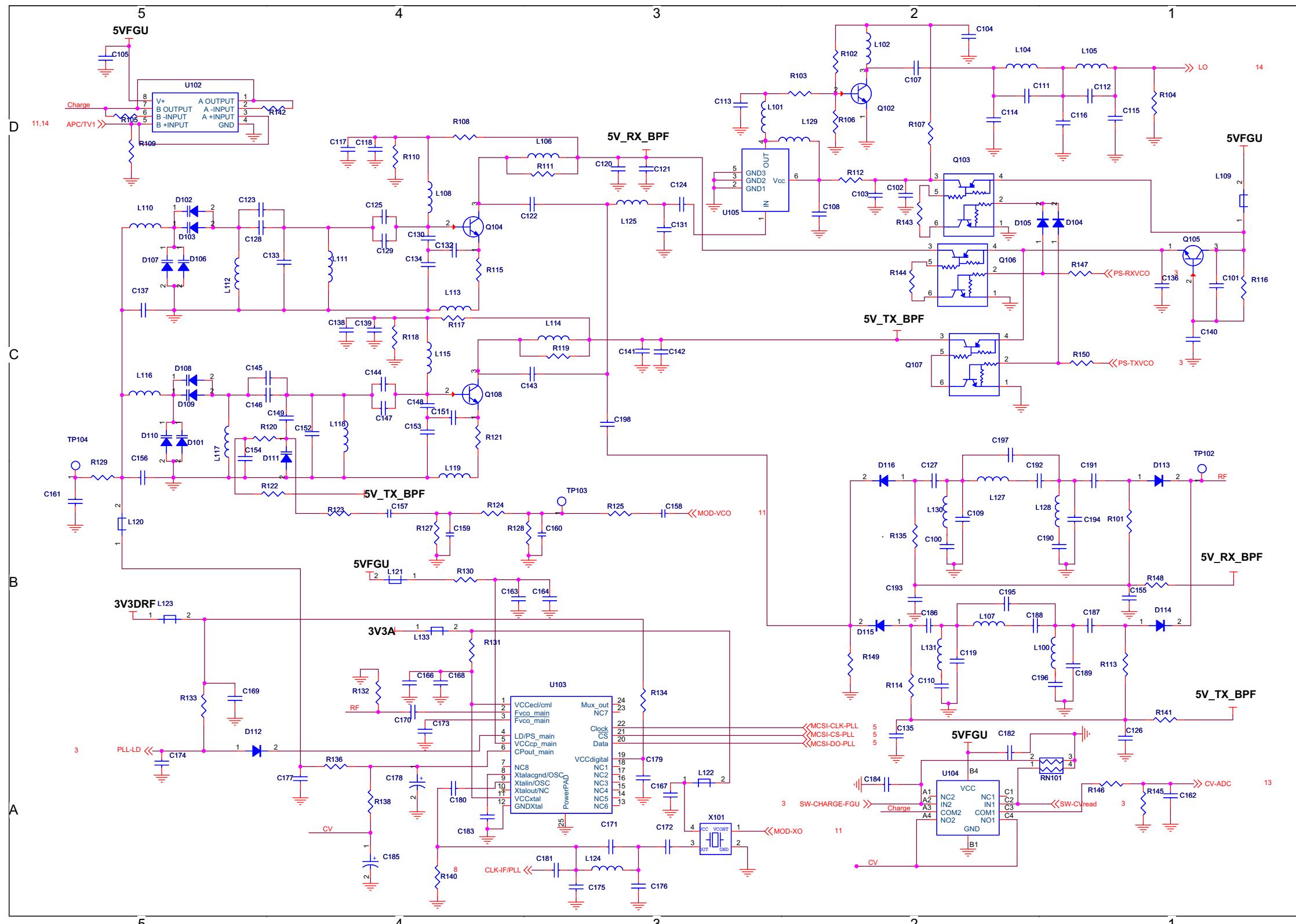
Power System_UHF3



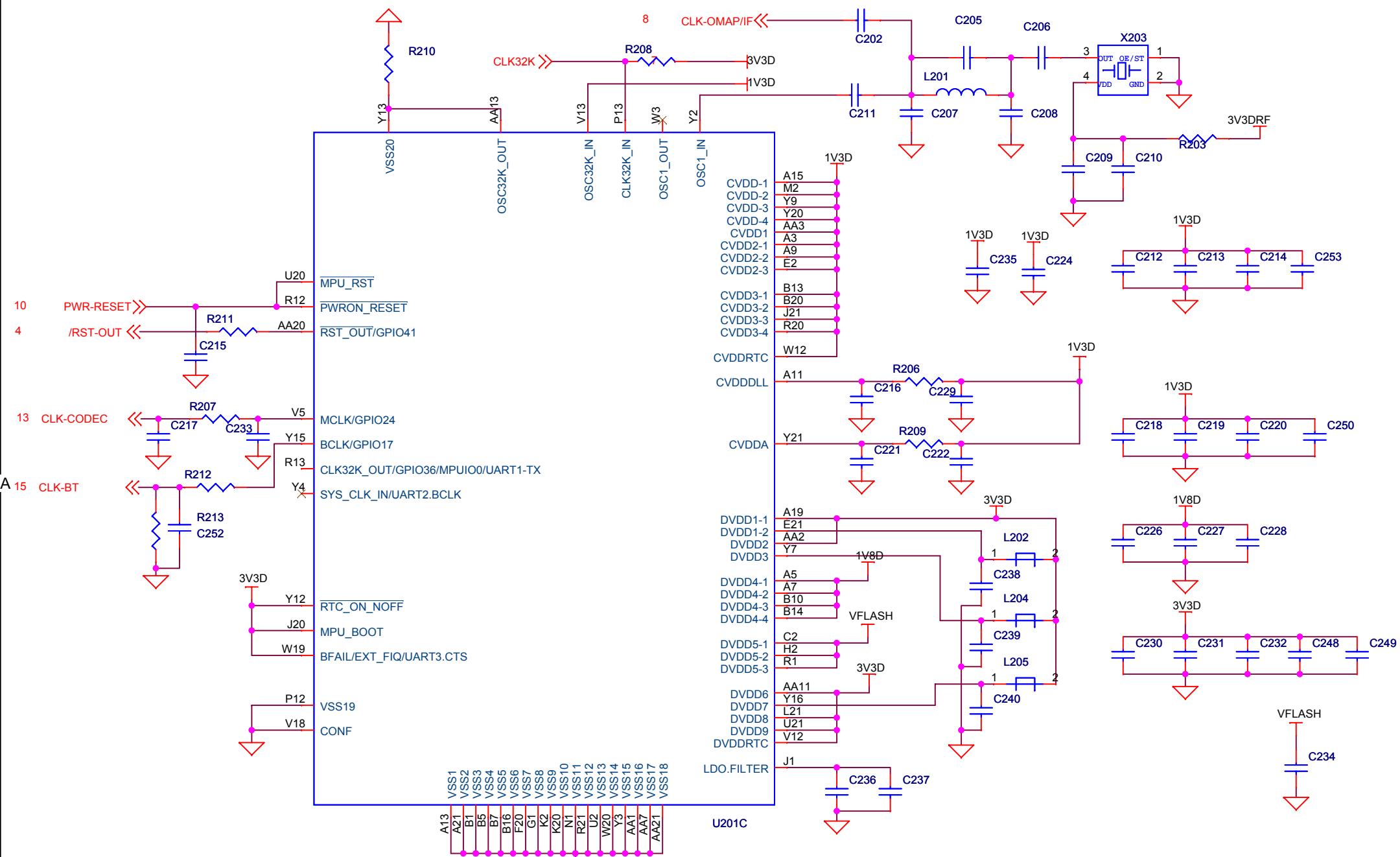
13. Block Diagram

13.1 VHF

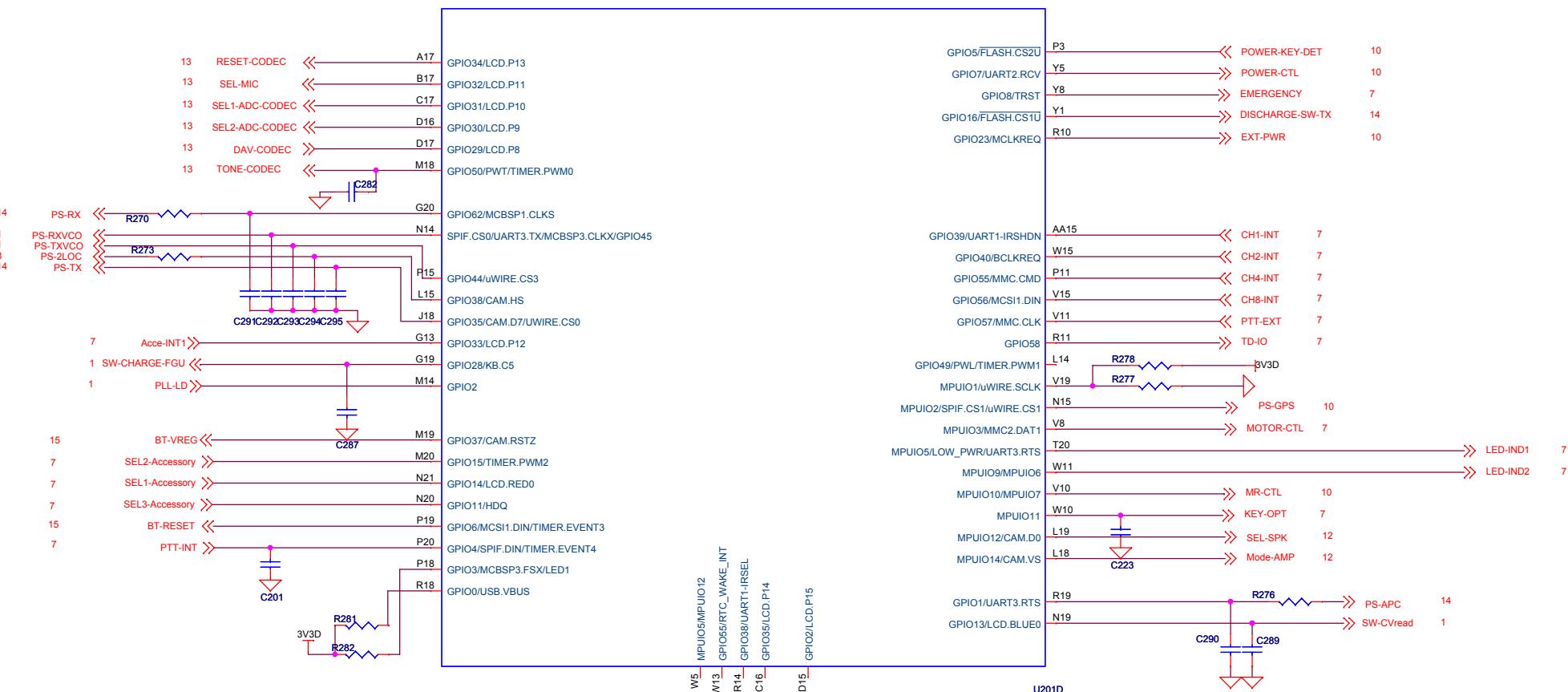
FGU Circuit _VHF



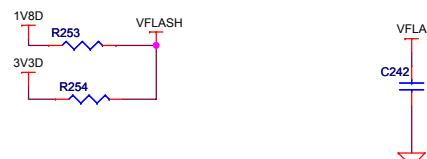
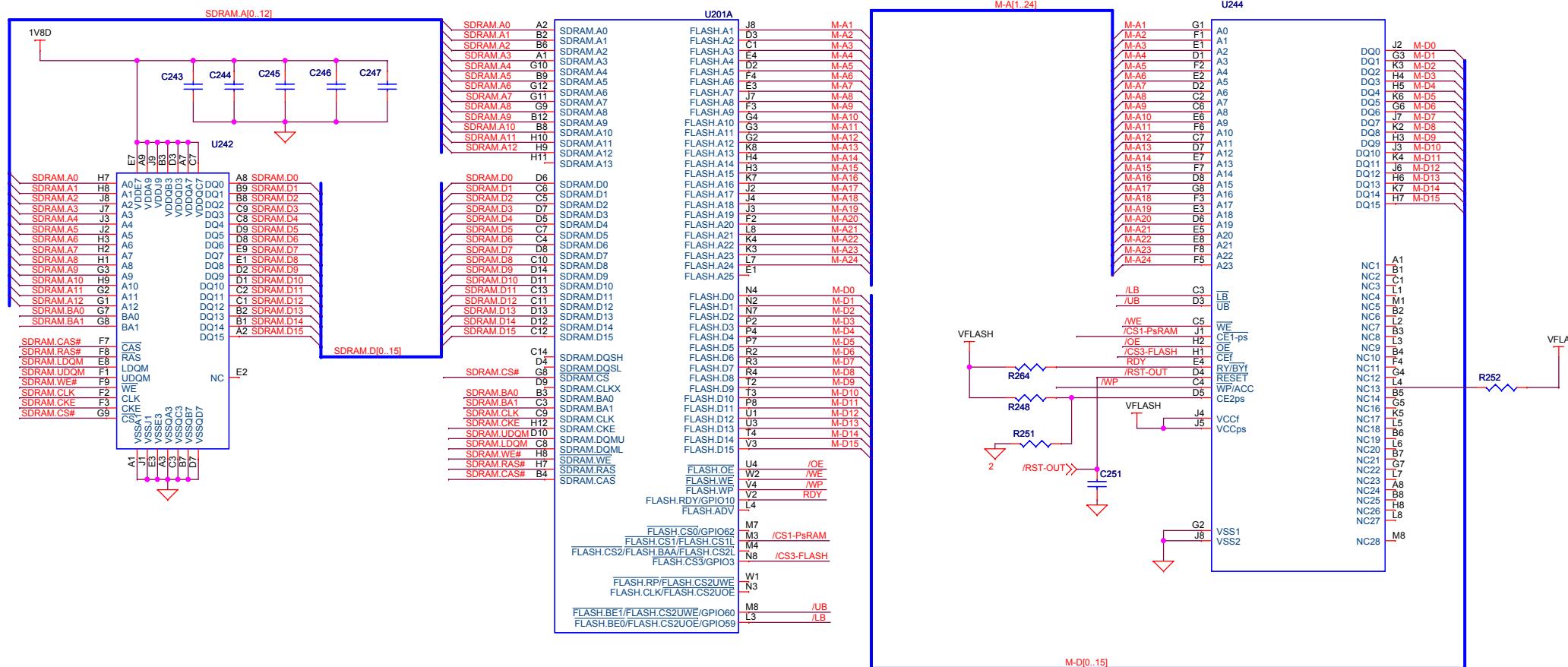
OMAP-Core Circuit _VHF

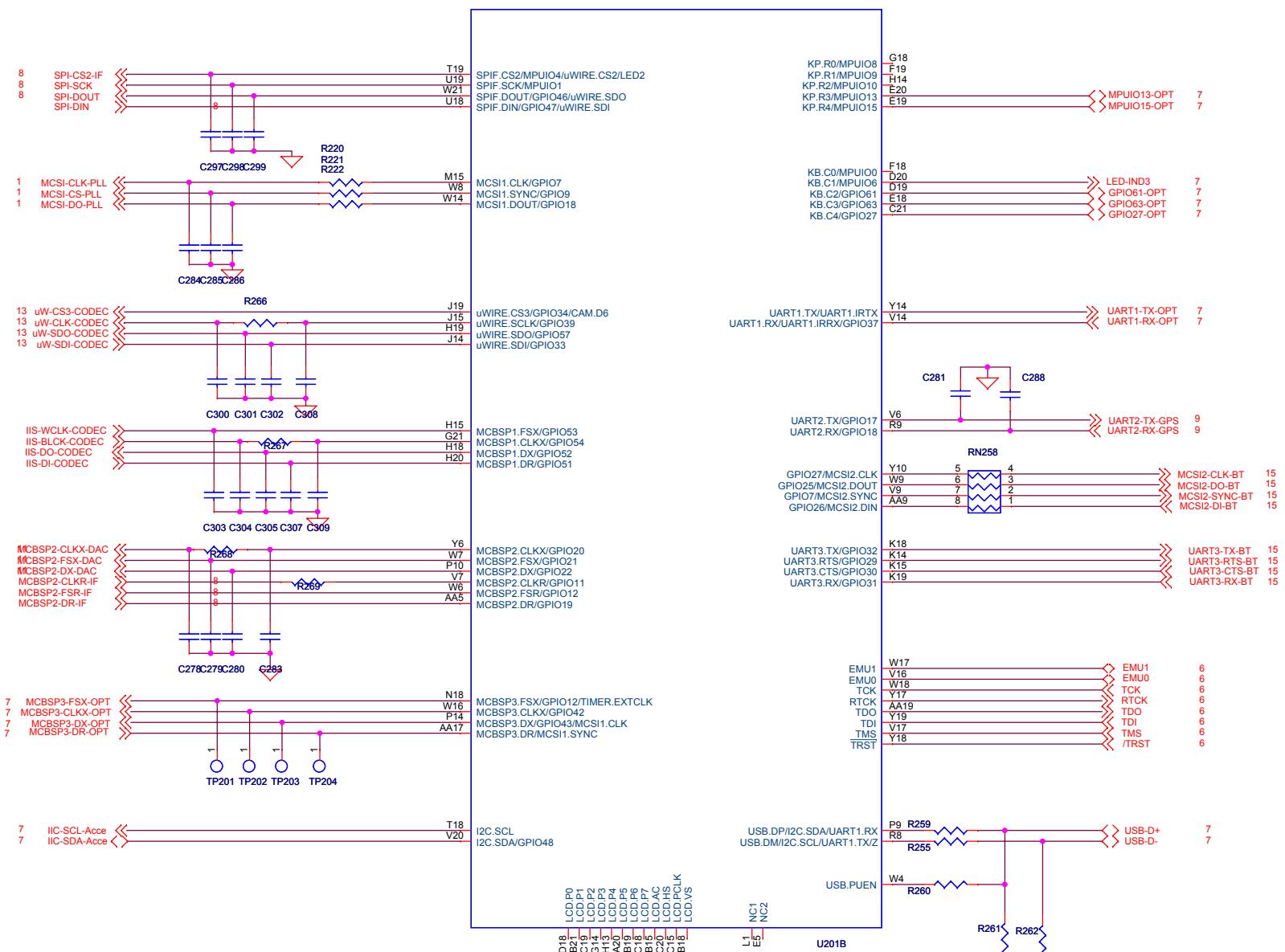


OMAP Data Interface Circuit 1 _VHF

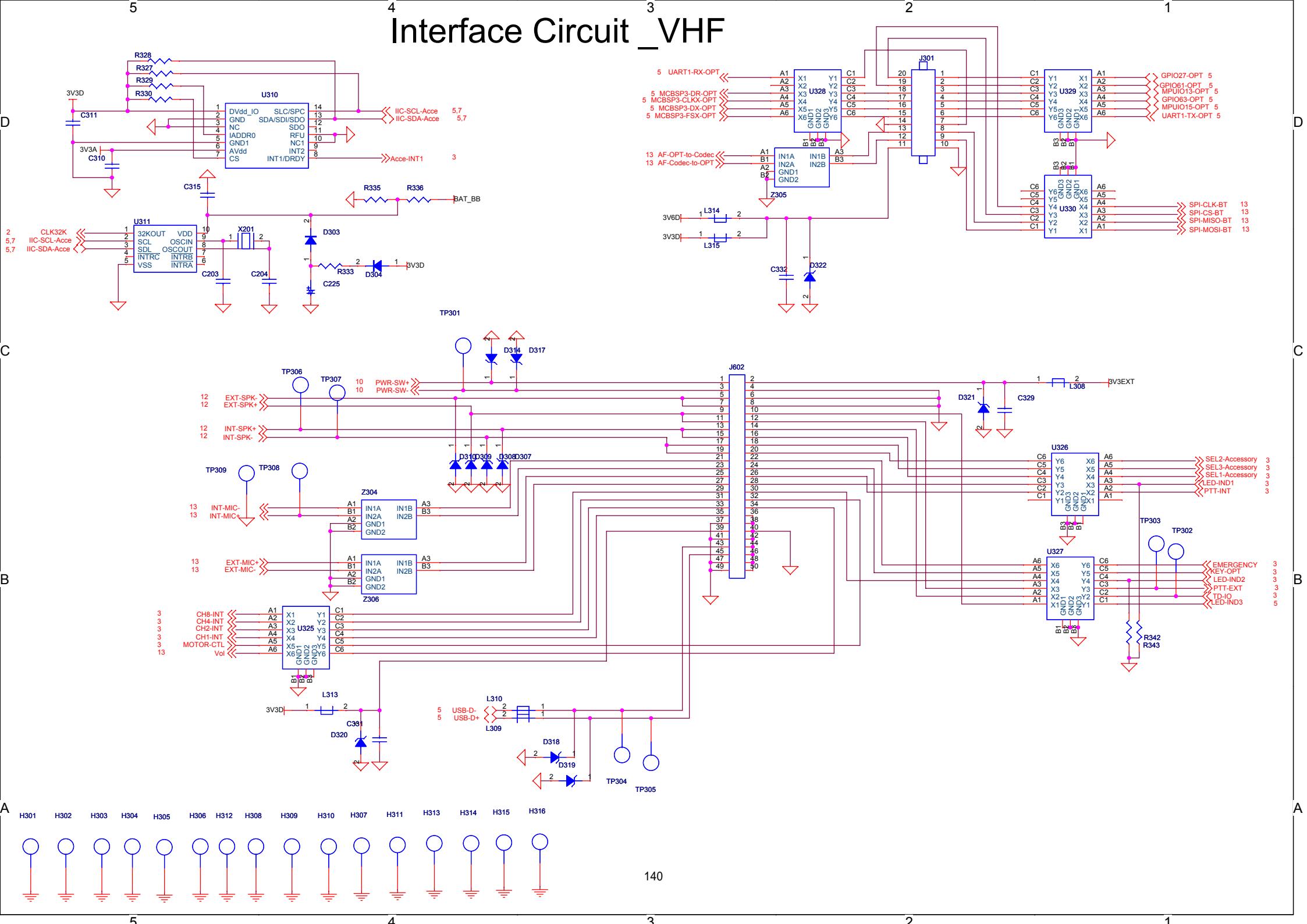


Memory Circuit _VHF





Interface Circuit _VHF



5

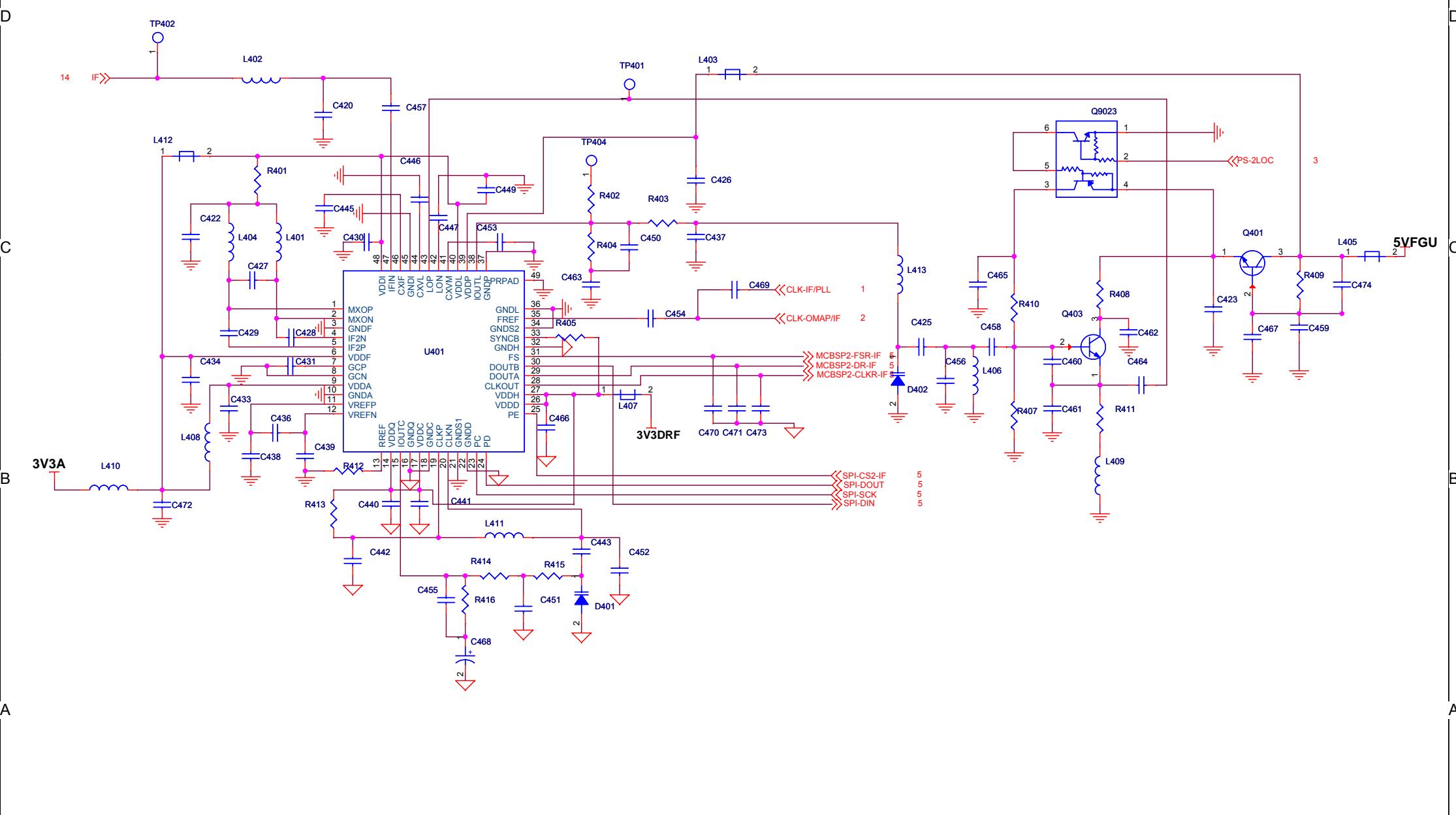
4

3

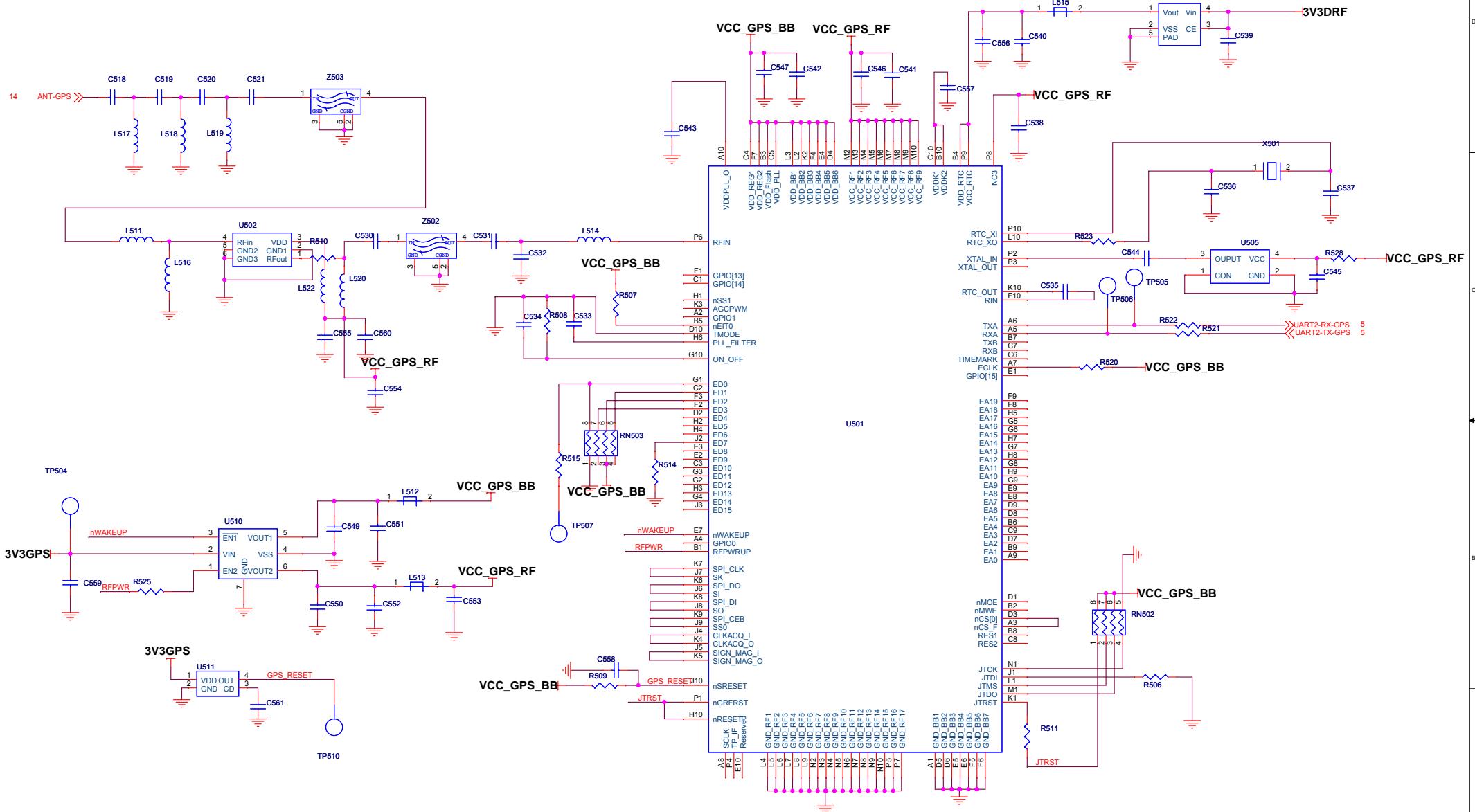
2

1

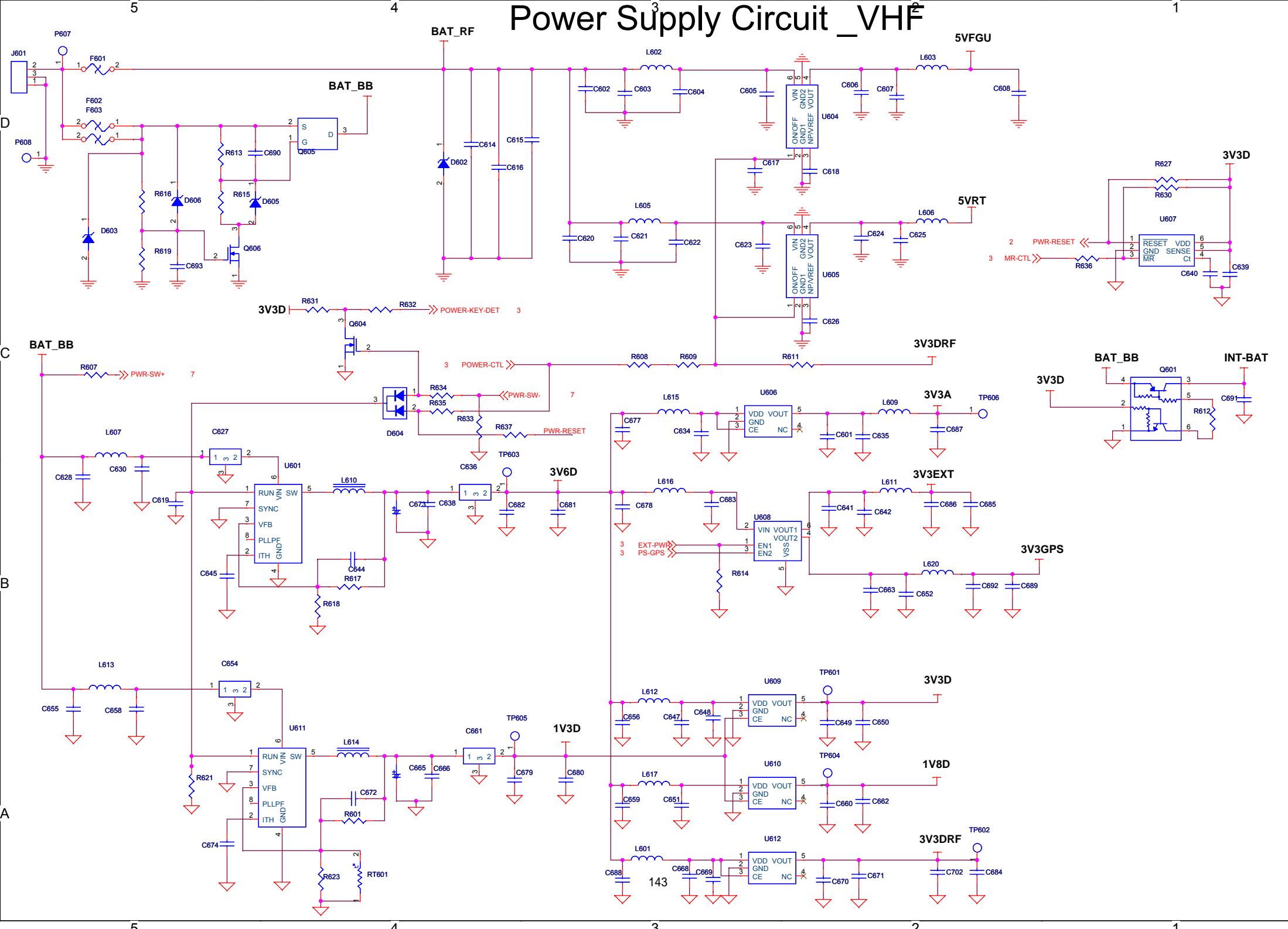
IF Processor Circuit _VHF



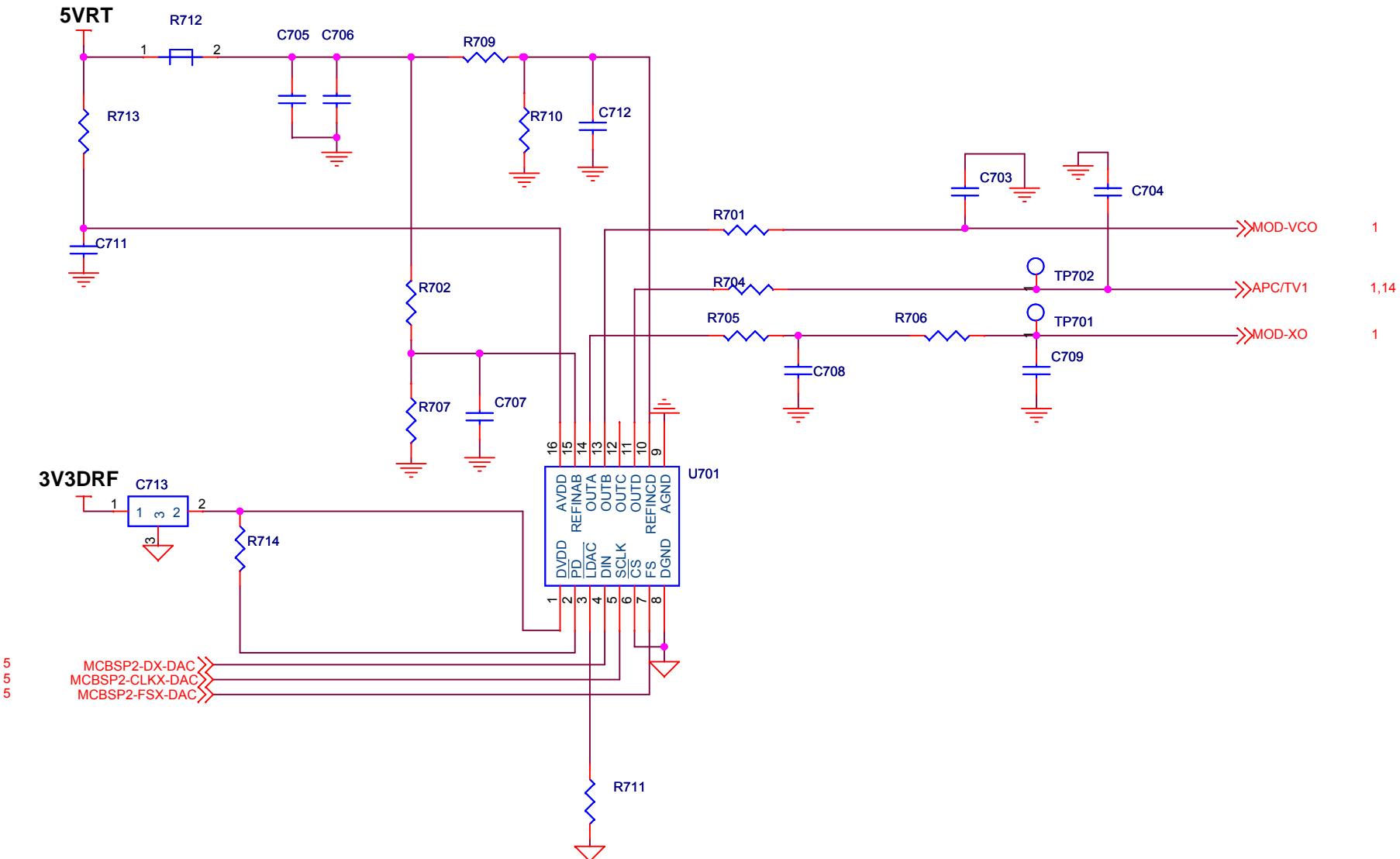
GPS Circuit _VHF



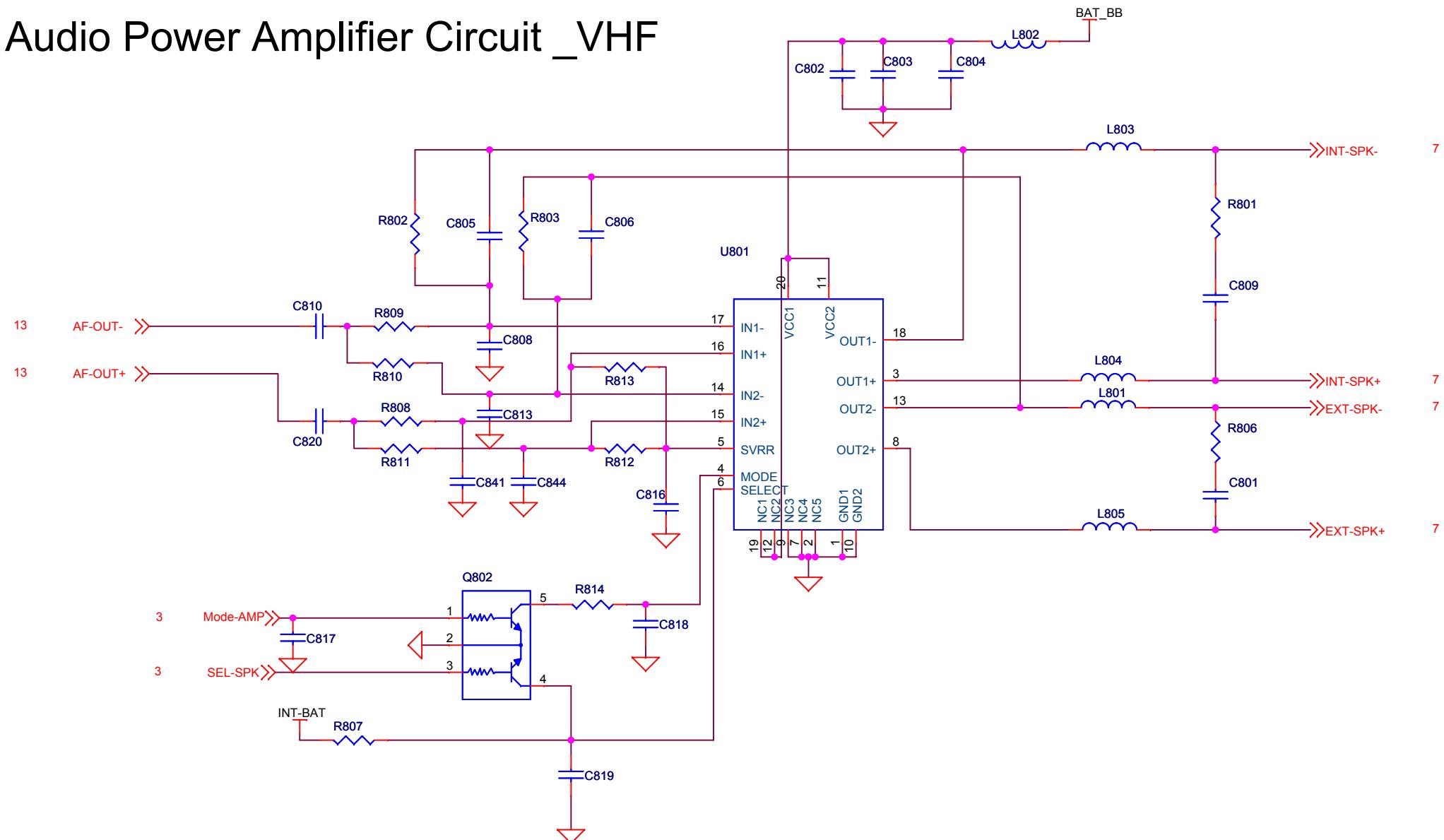
Power Supply Circuit _VHF

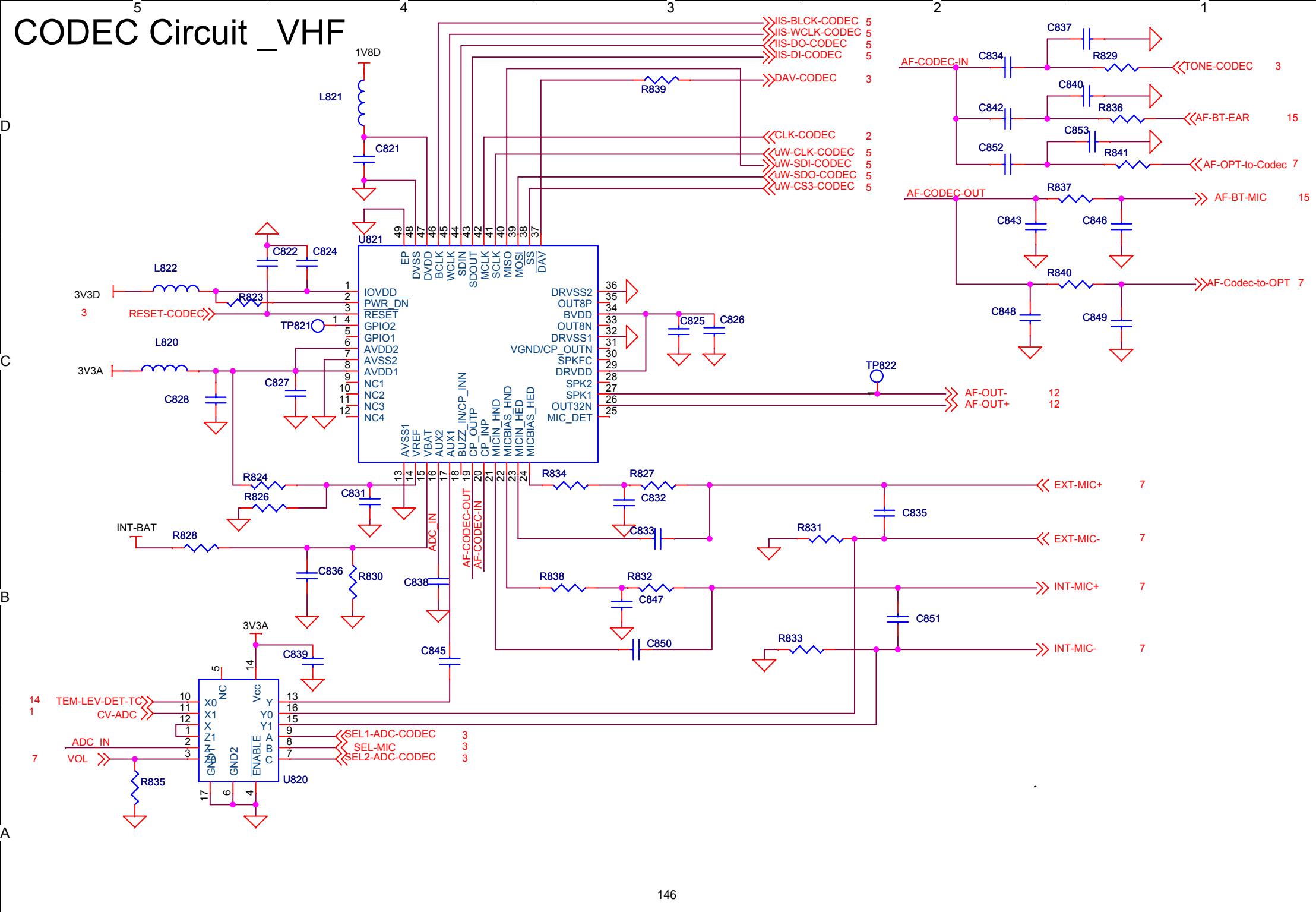


DAC Circuit _VHF

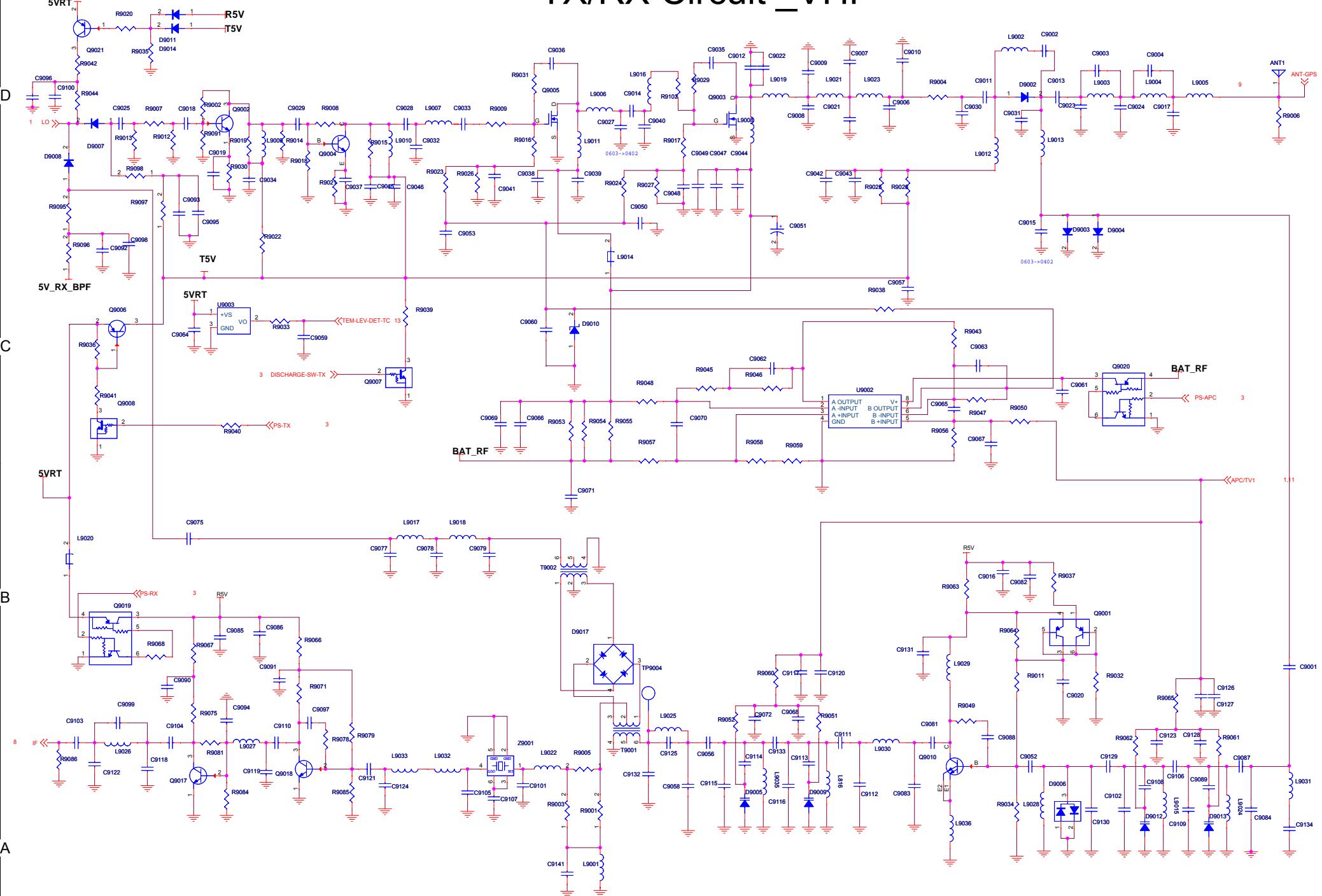


Audio Power Amplifier Circuit _VHF

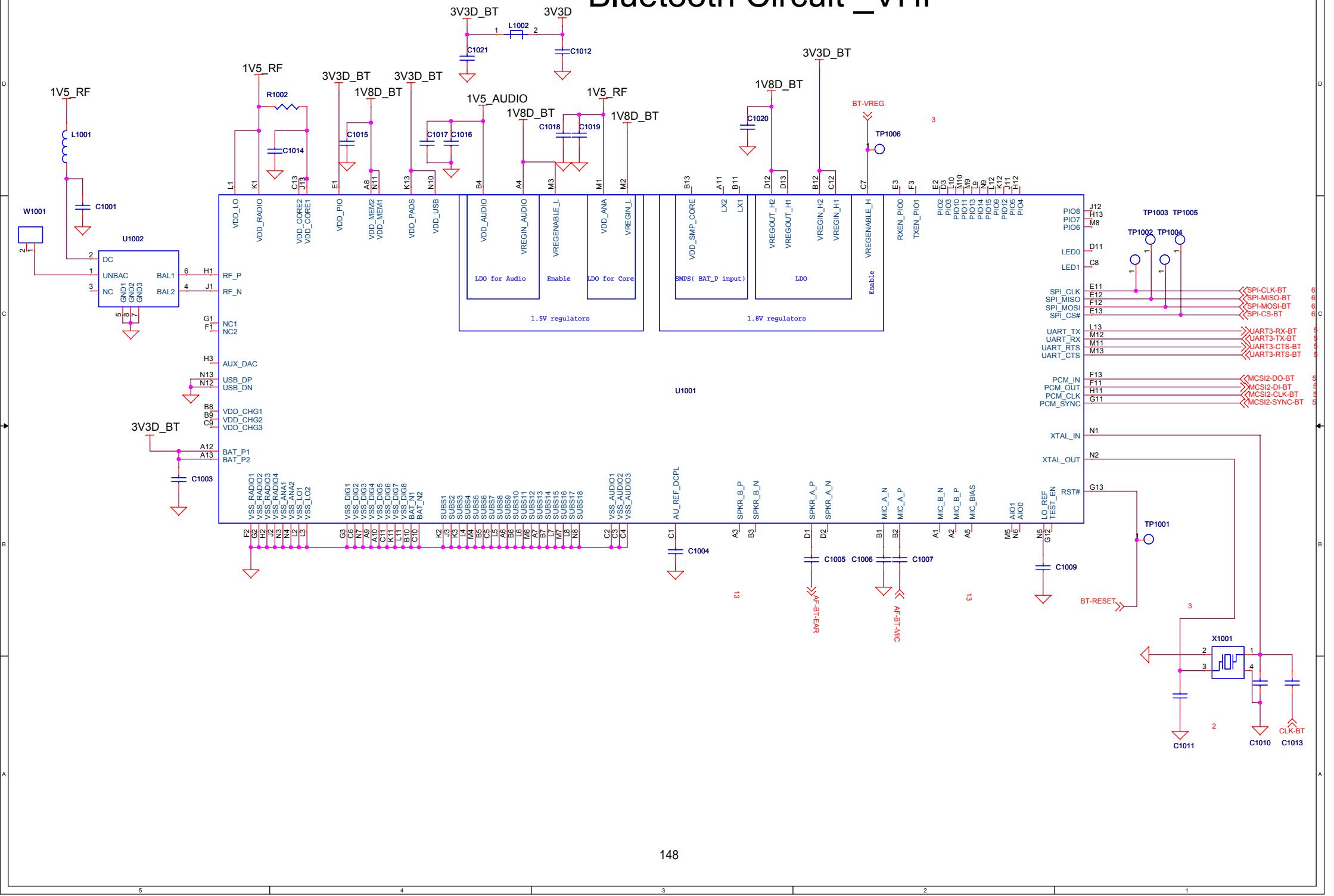


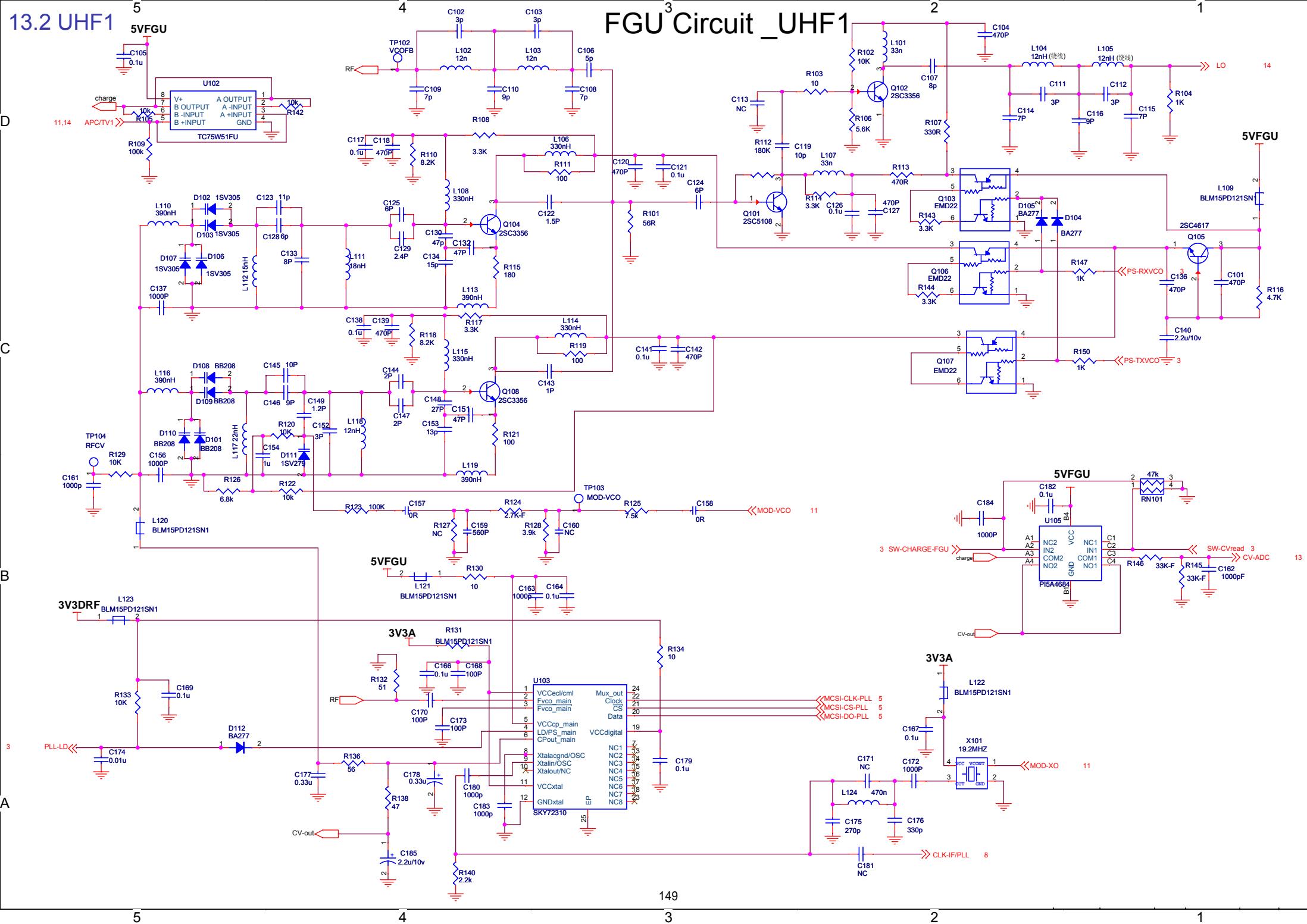


TX/RX Circuit _ VHF

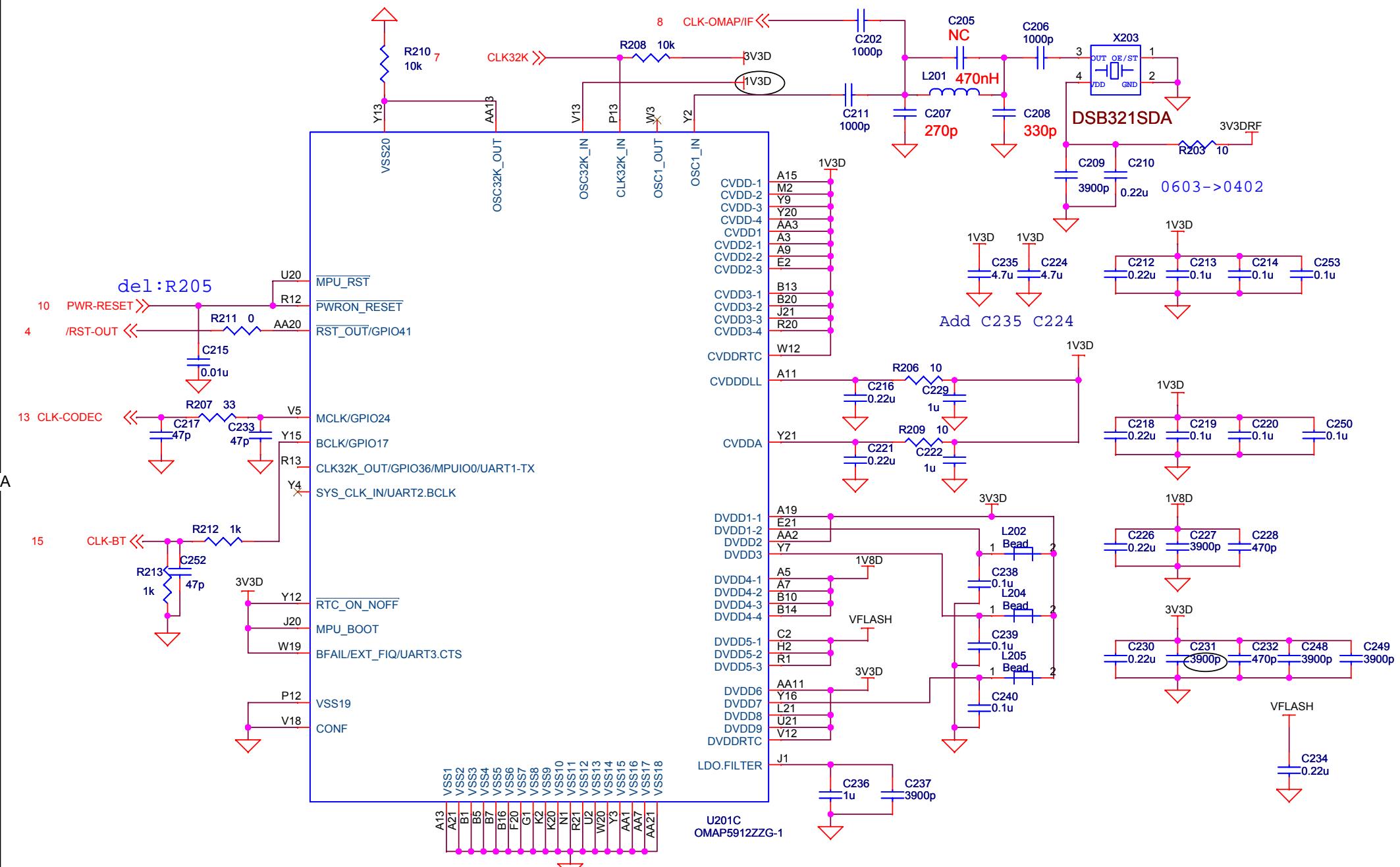


Bluetooth Circuit _VHF

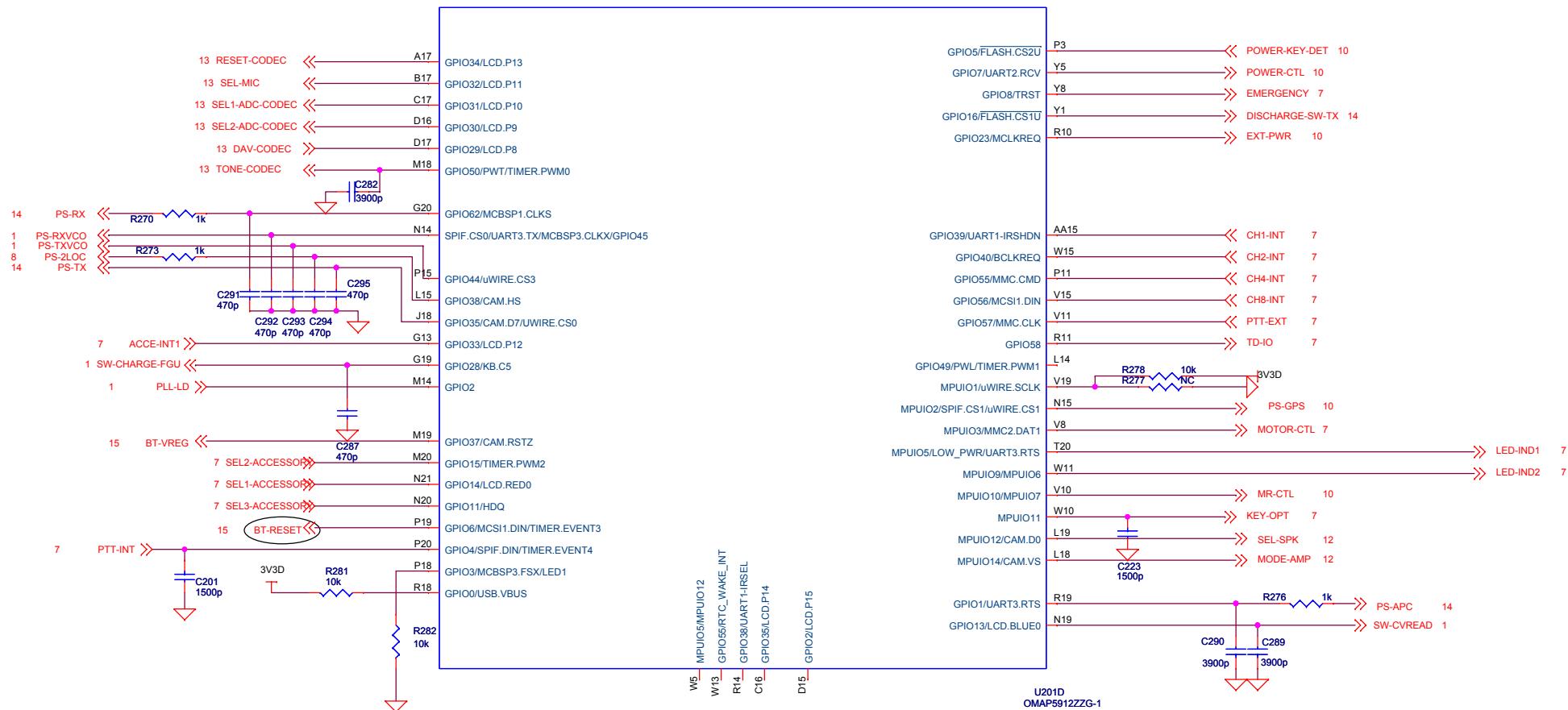




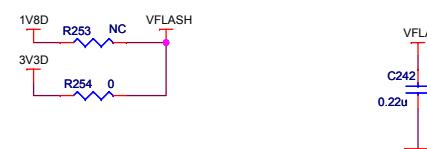
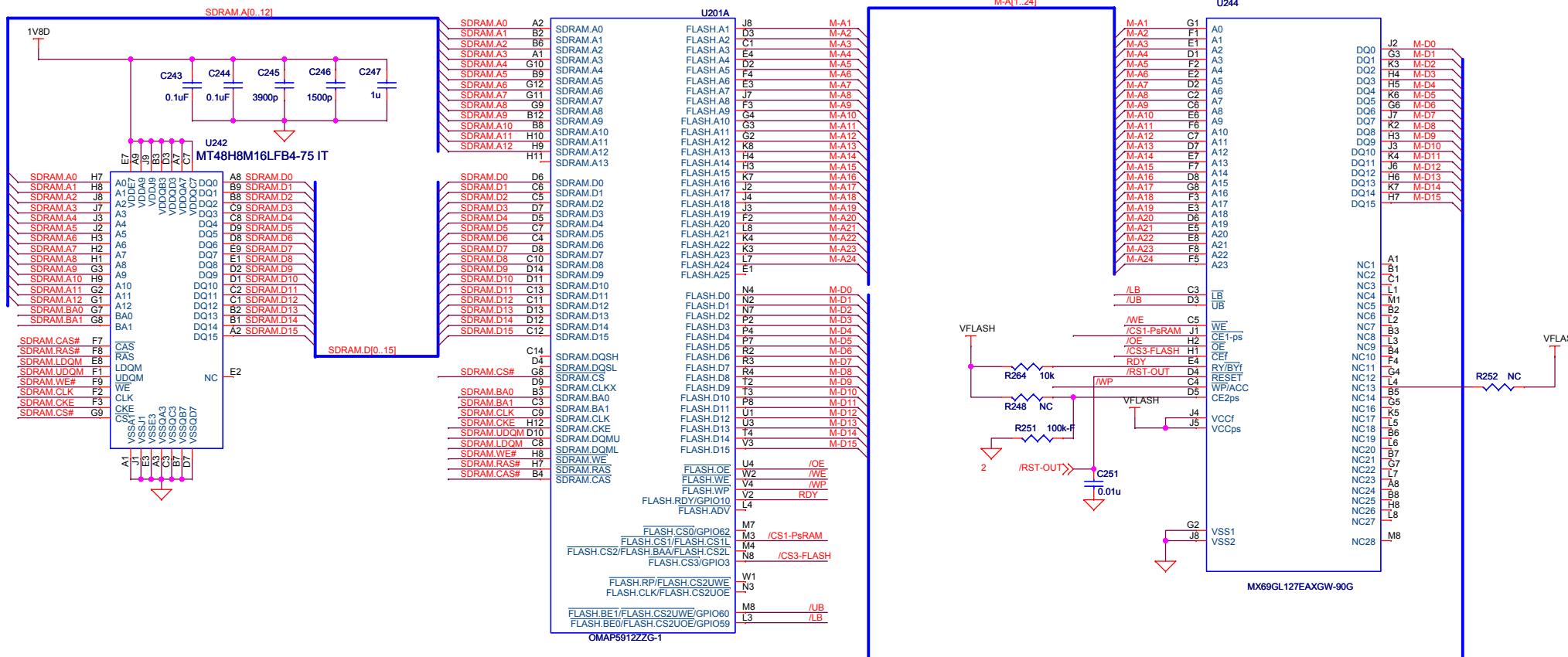
OMAP-Core Circuit _UHF1



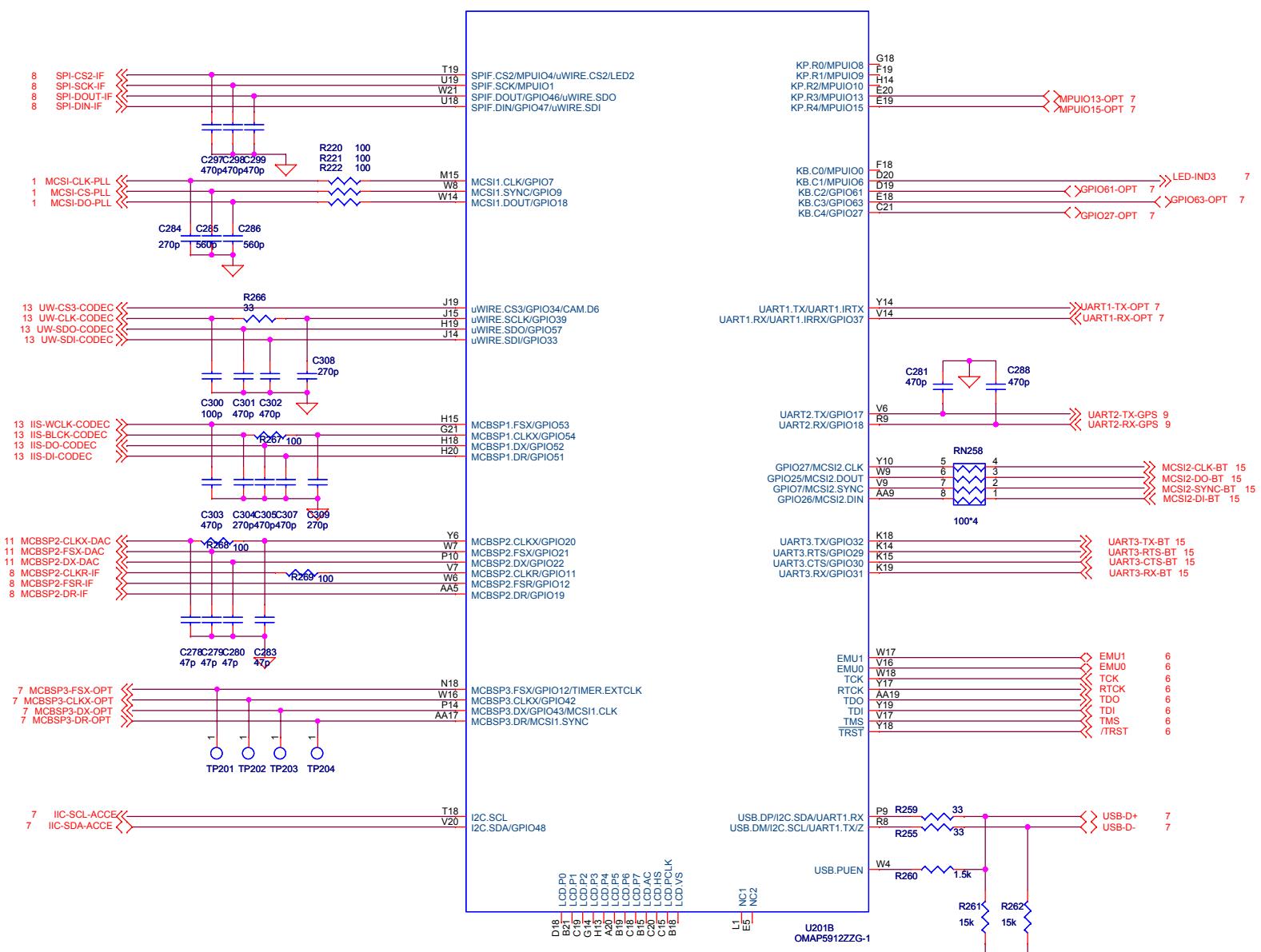
OMAP Data Interface Circuit 1 _UHF1



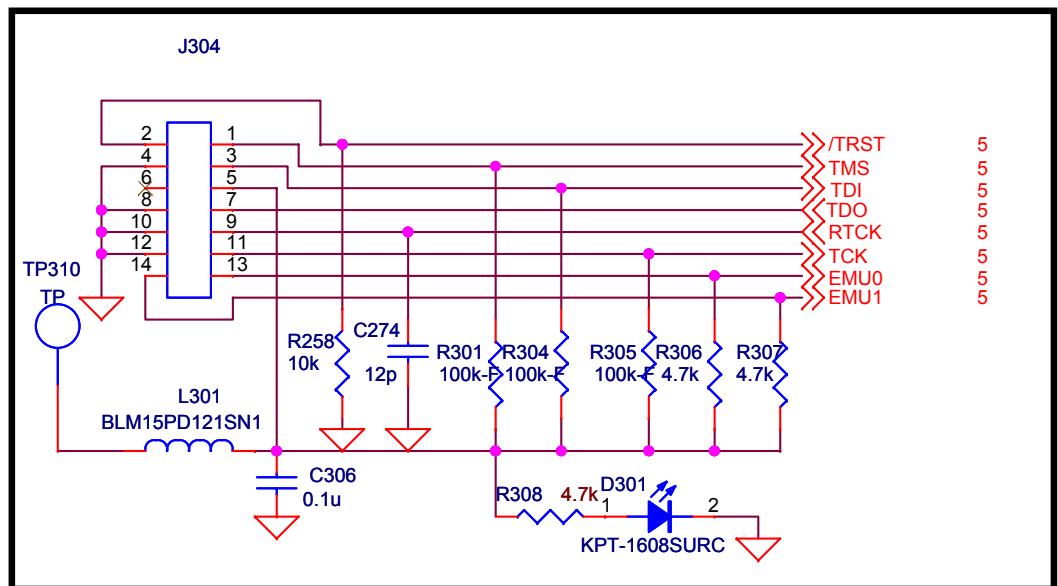
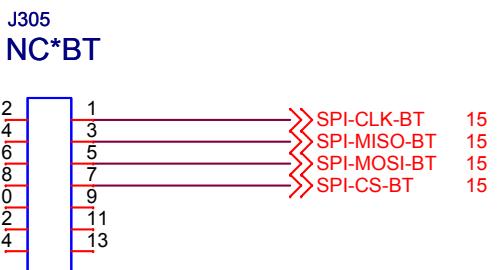
Memory Circuit _UHF1



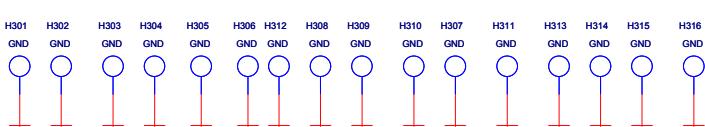
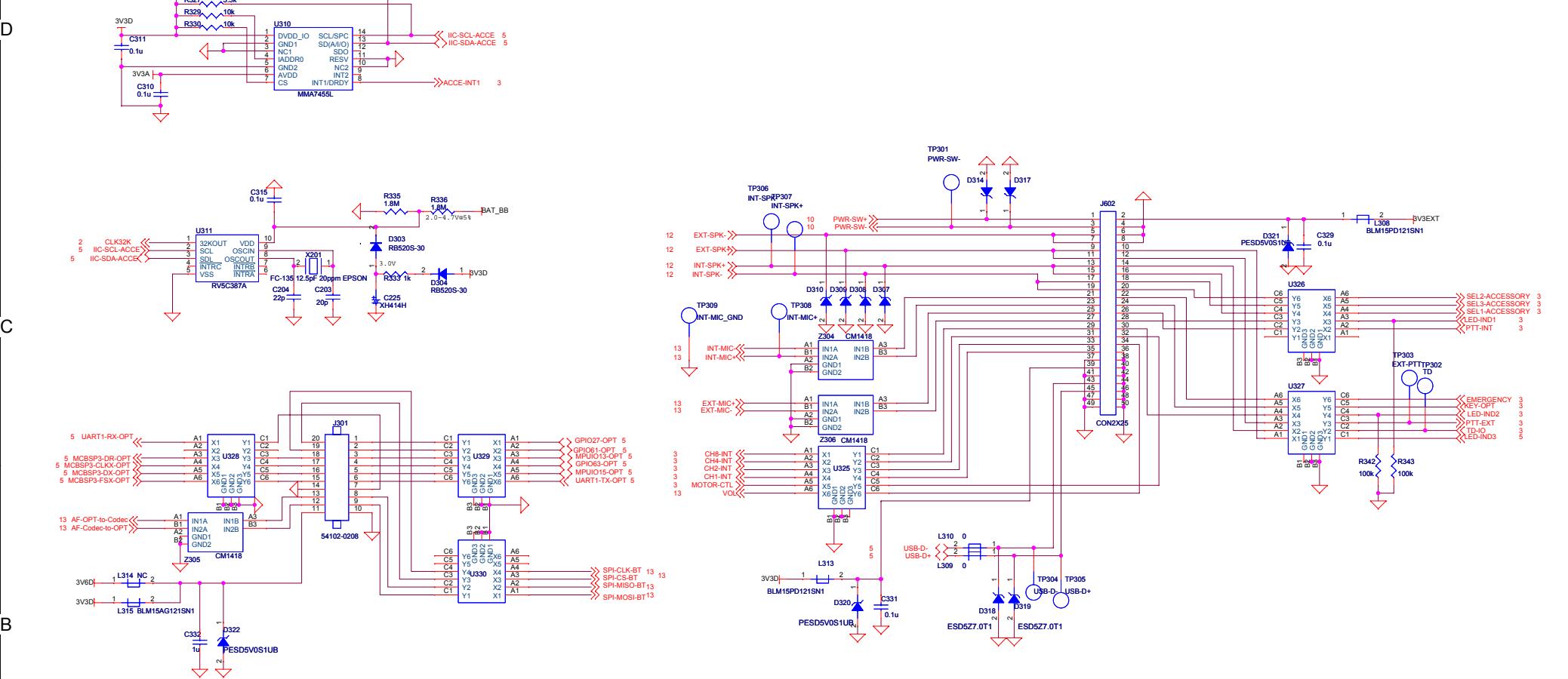
OMAP Interface Circuit _UHF1



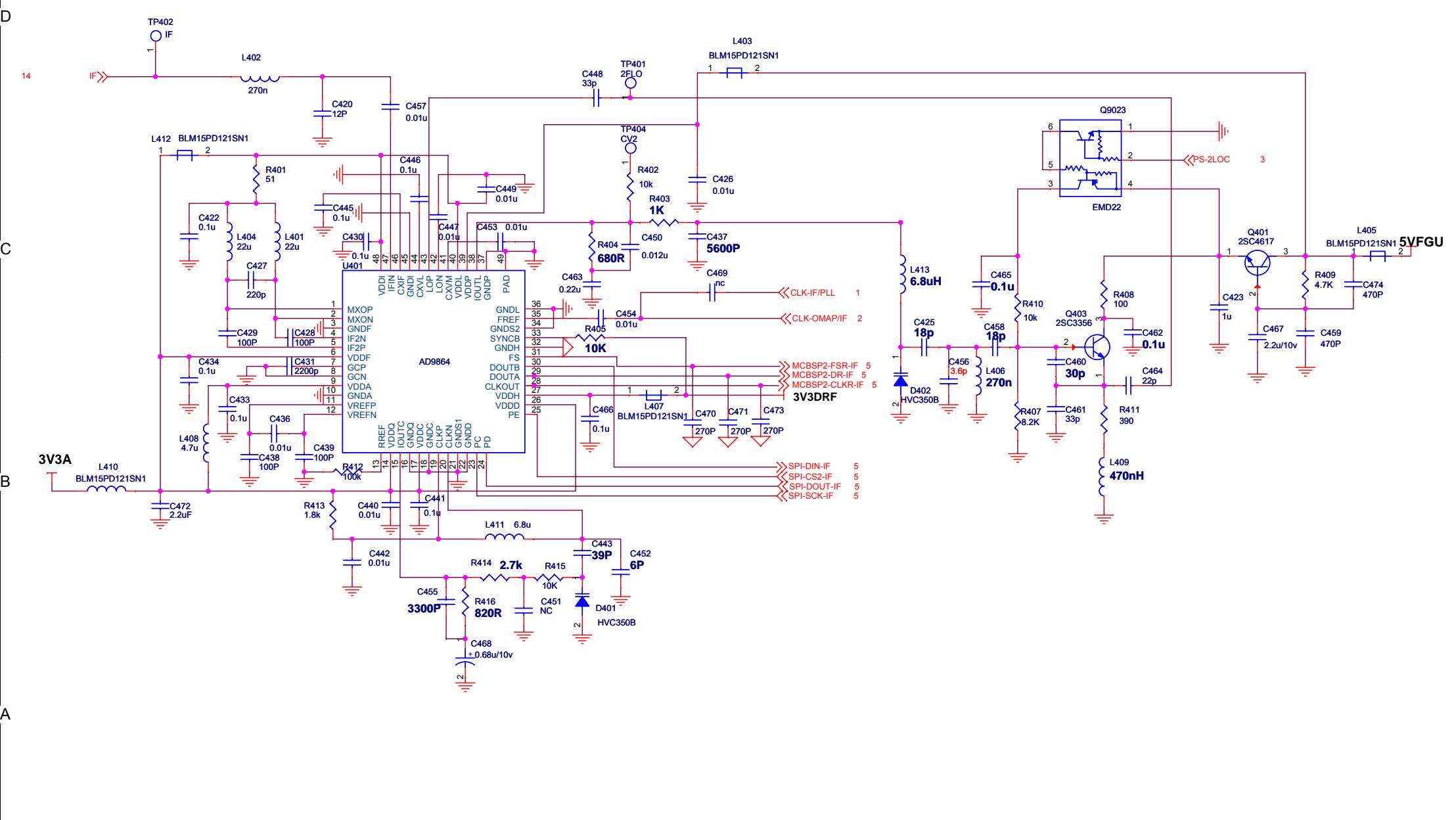
Interface Circuit 1 _UHF1



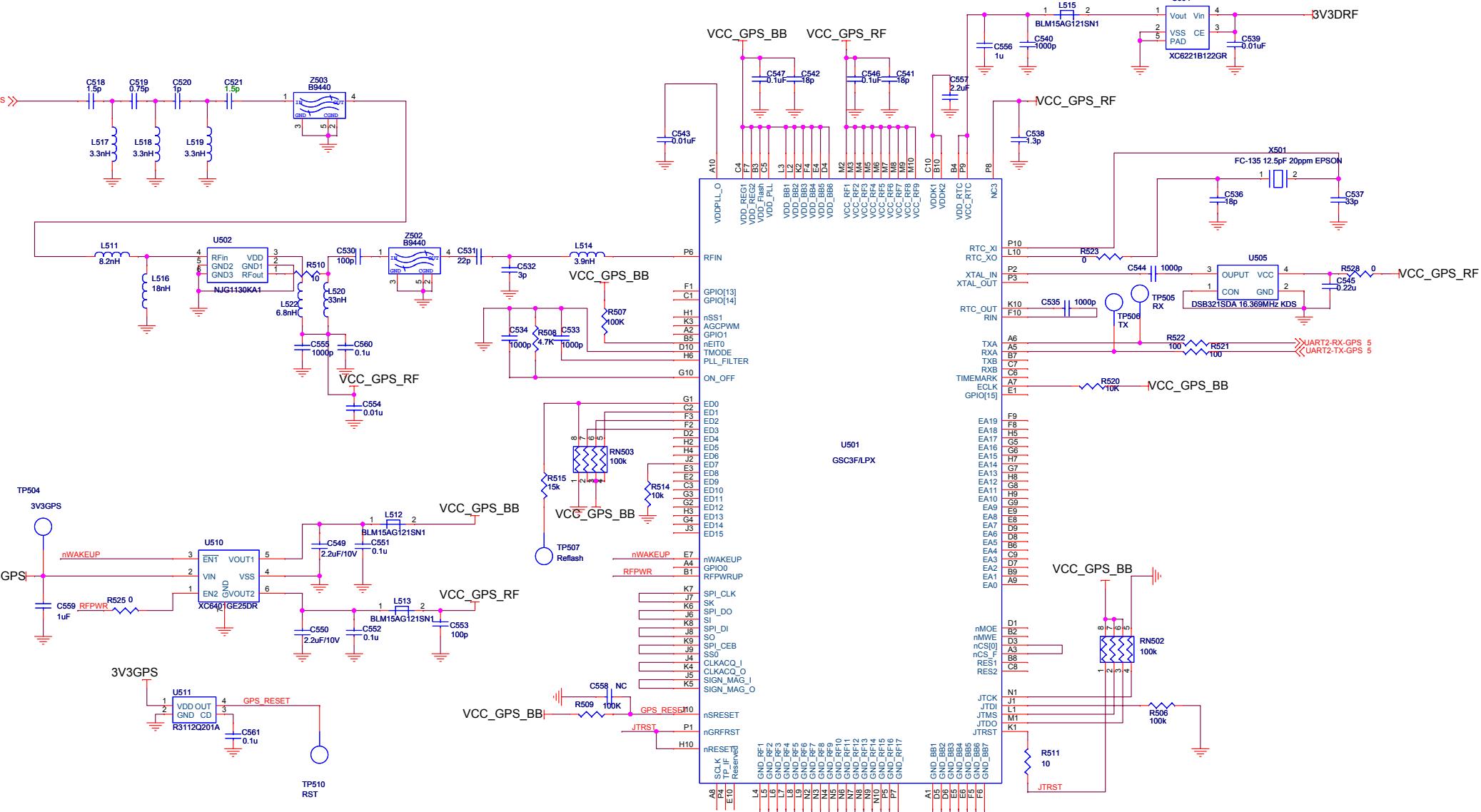
Interface Circuit 2 _UHF1



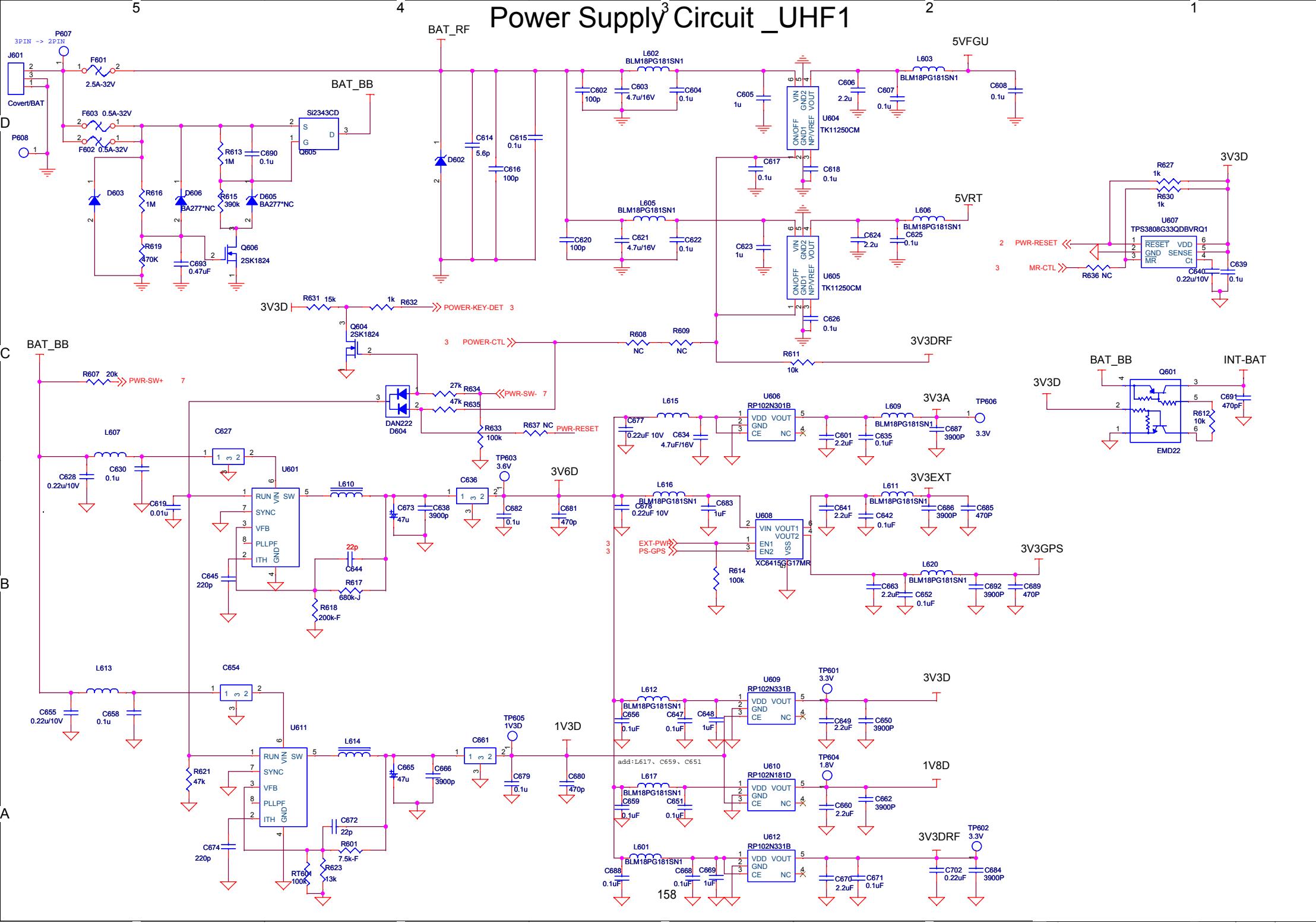
IF Processor Circuit _UHF1



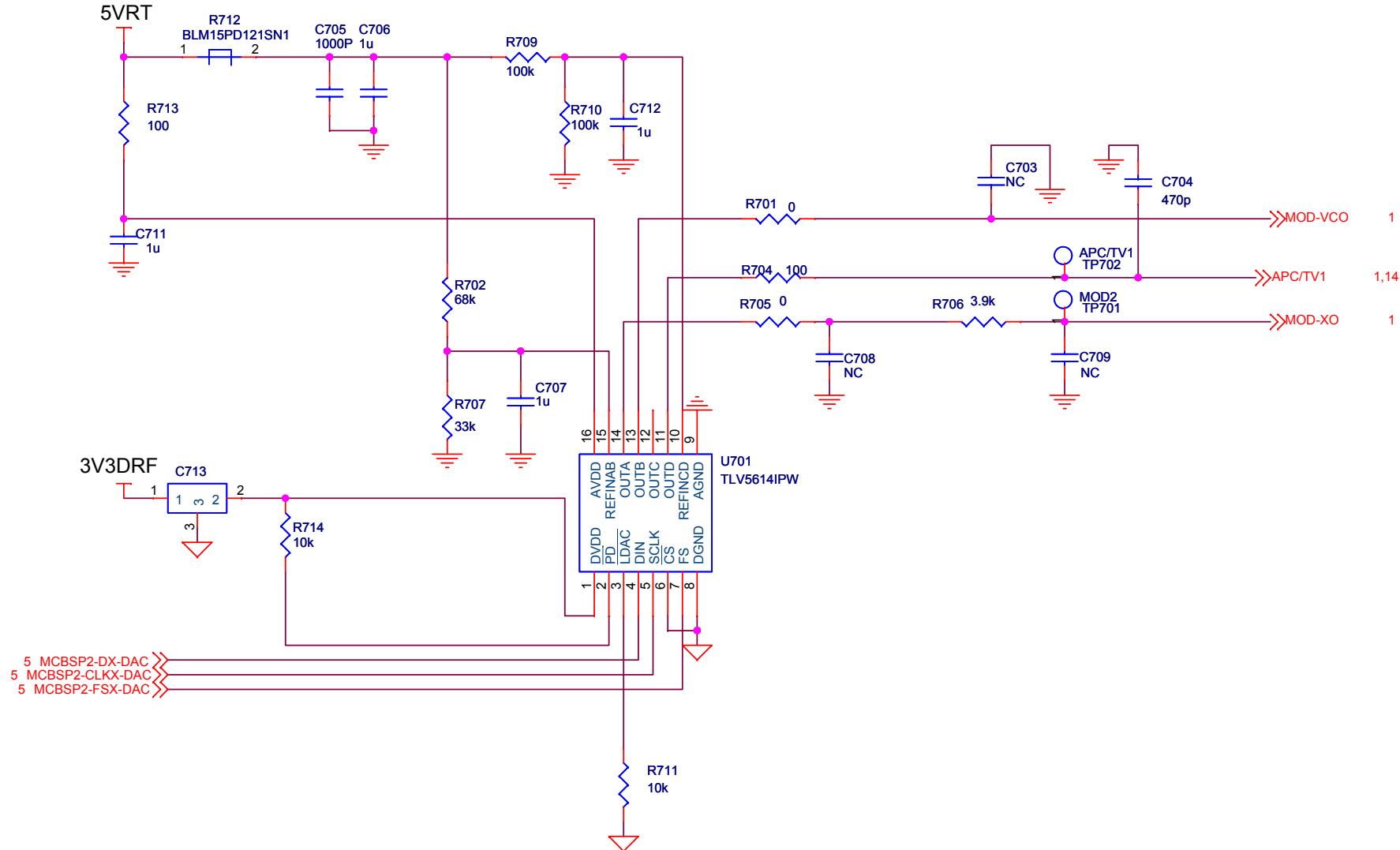
GPS Circuit _UHF1



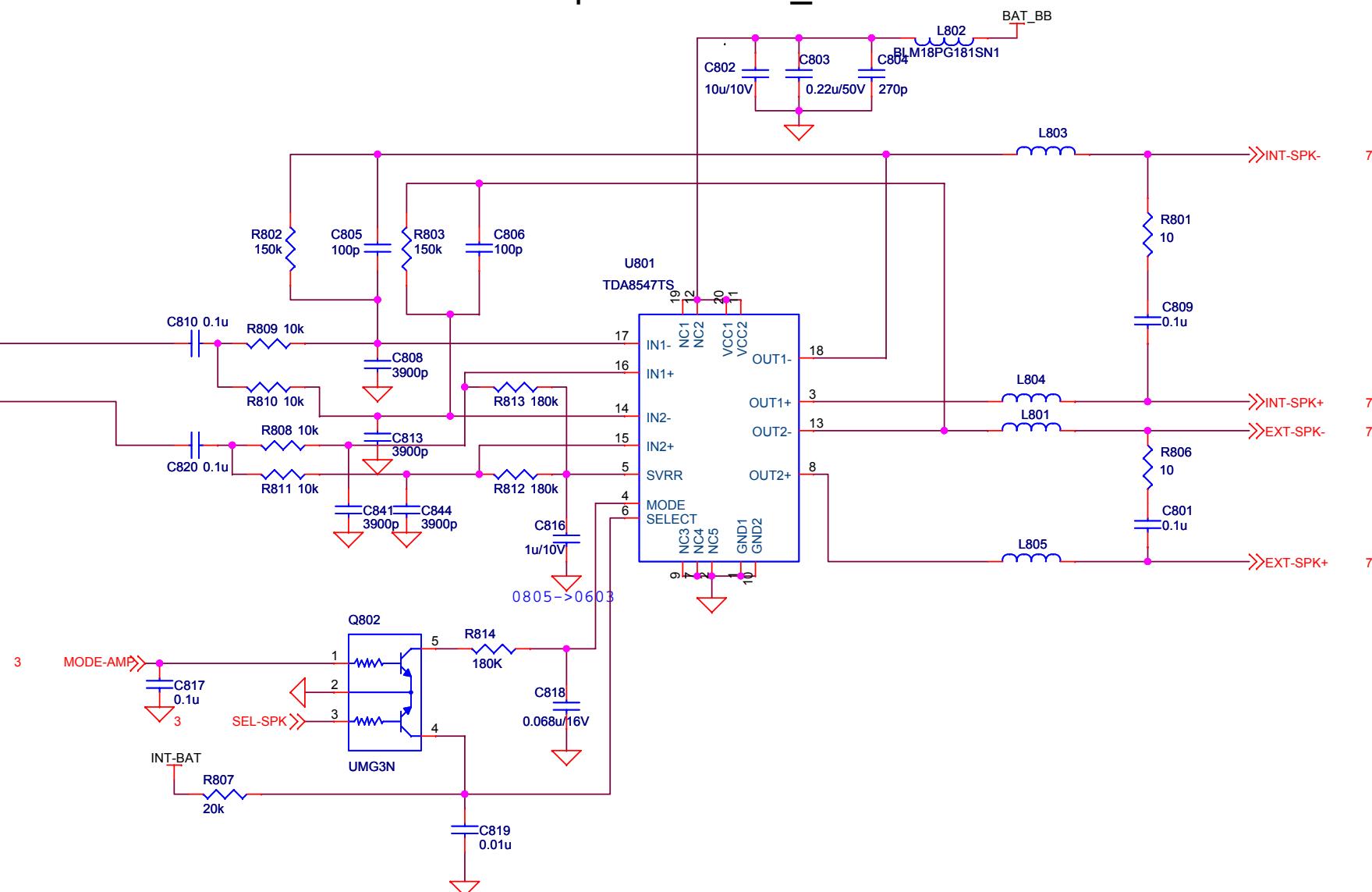
Power Supply³ Circuit _UHF1



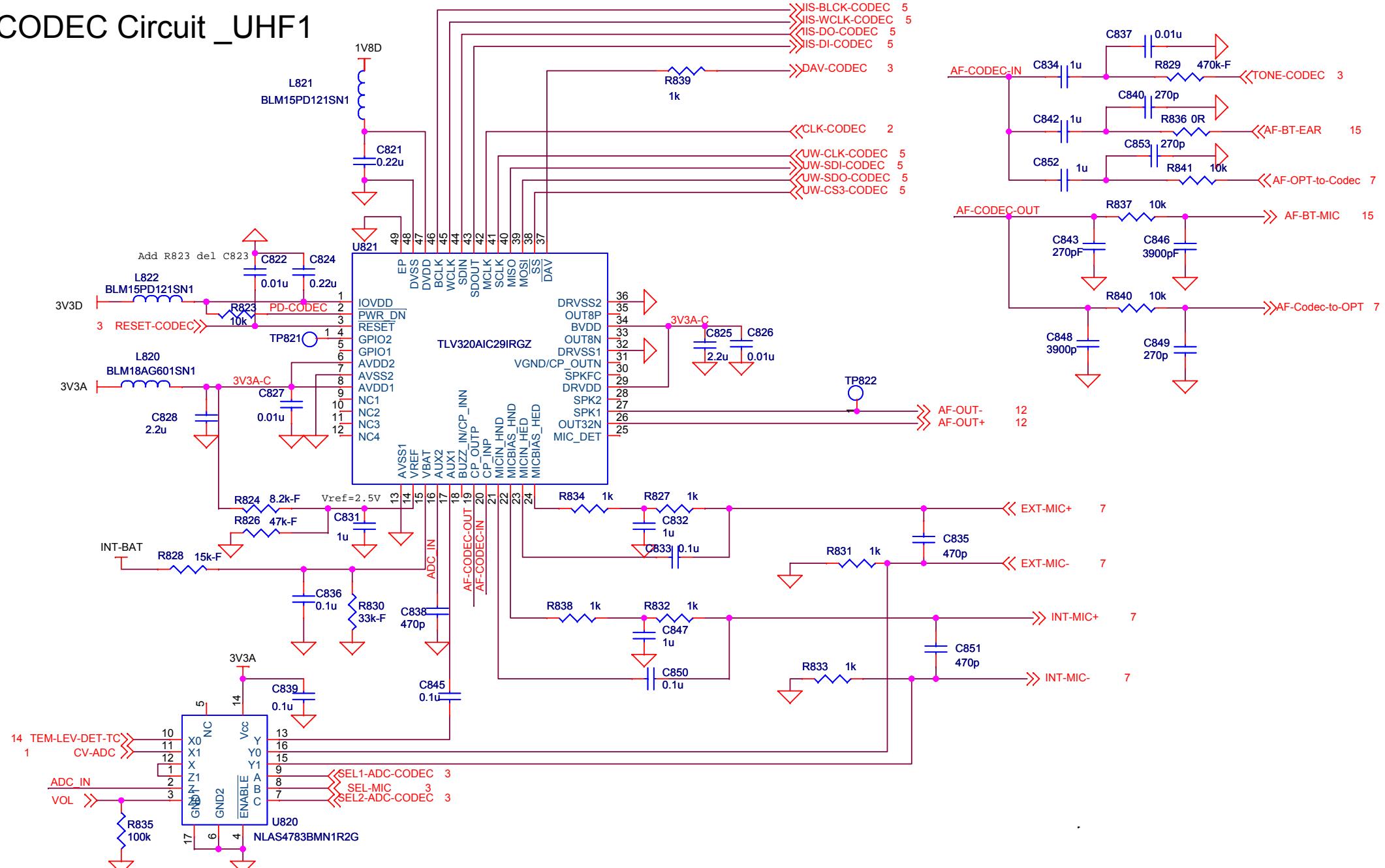
DAC Circuit _UHF1



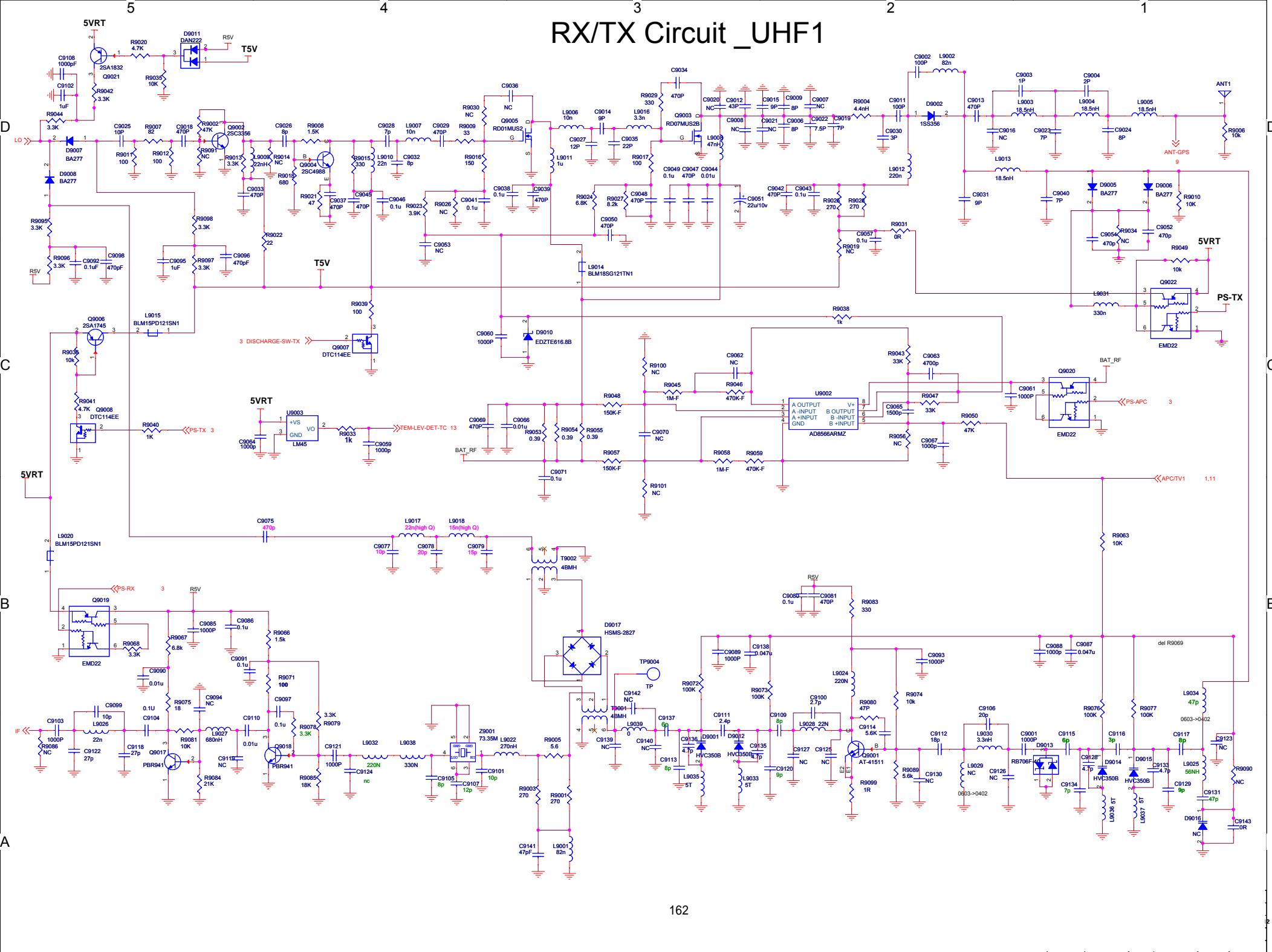
Audio Power Amplifier Circuit _UHF1



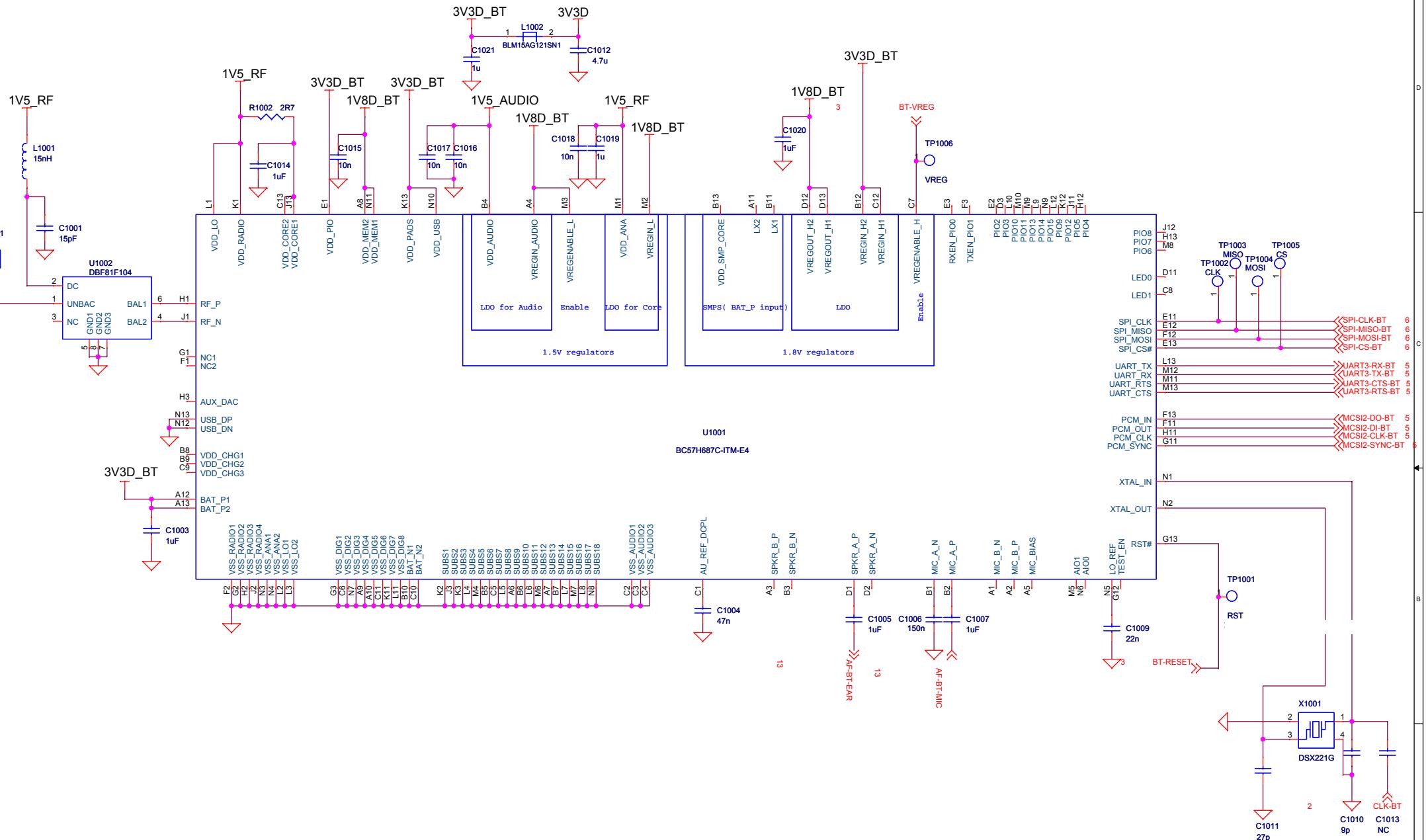
CODEC Circuit _UHF1

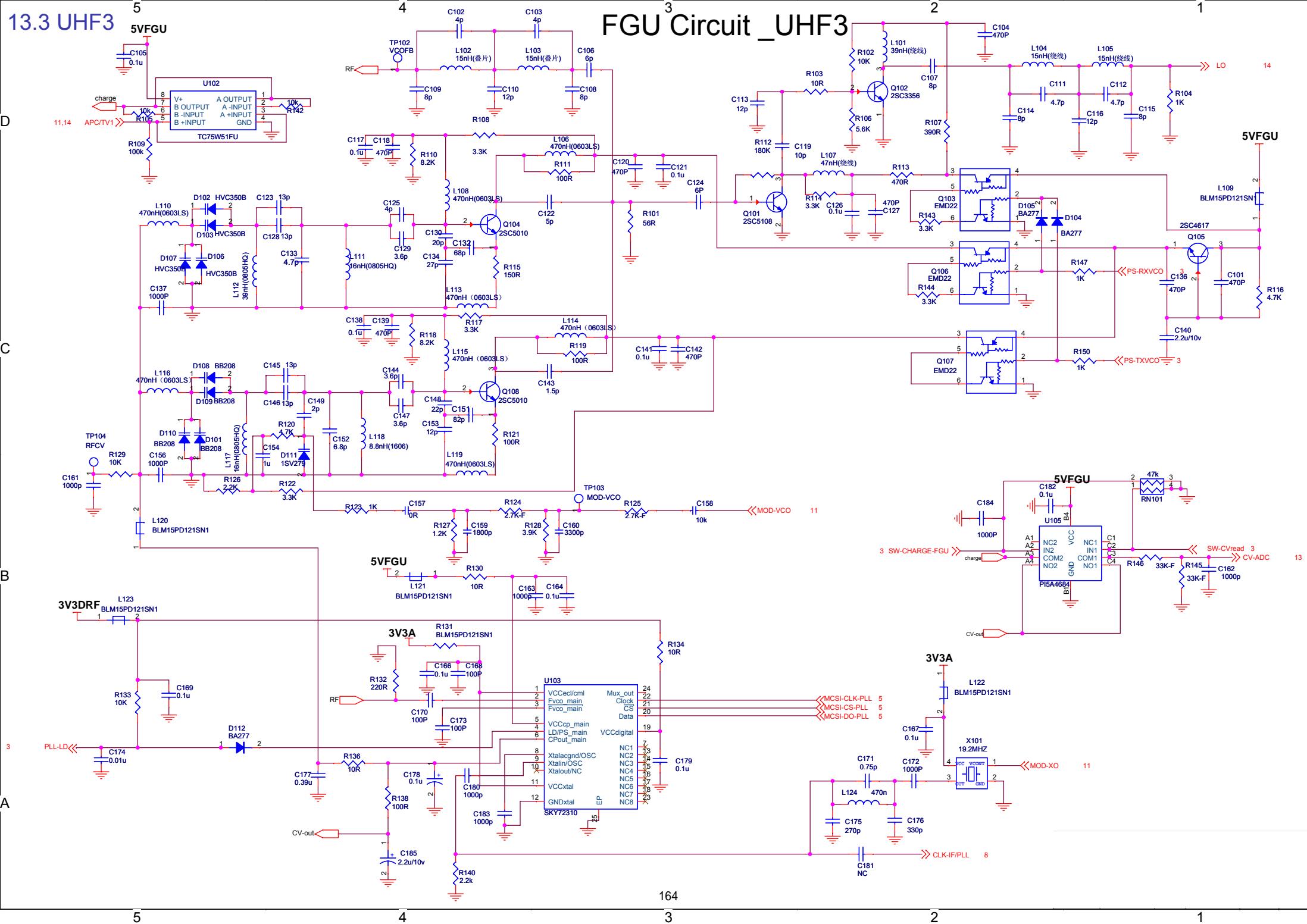


RX/TX Circuit _UHF1

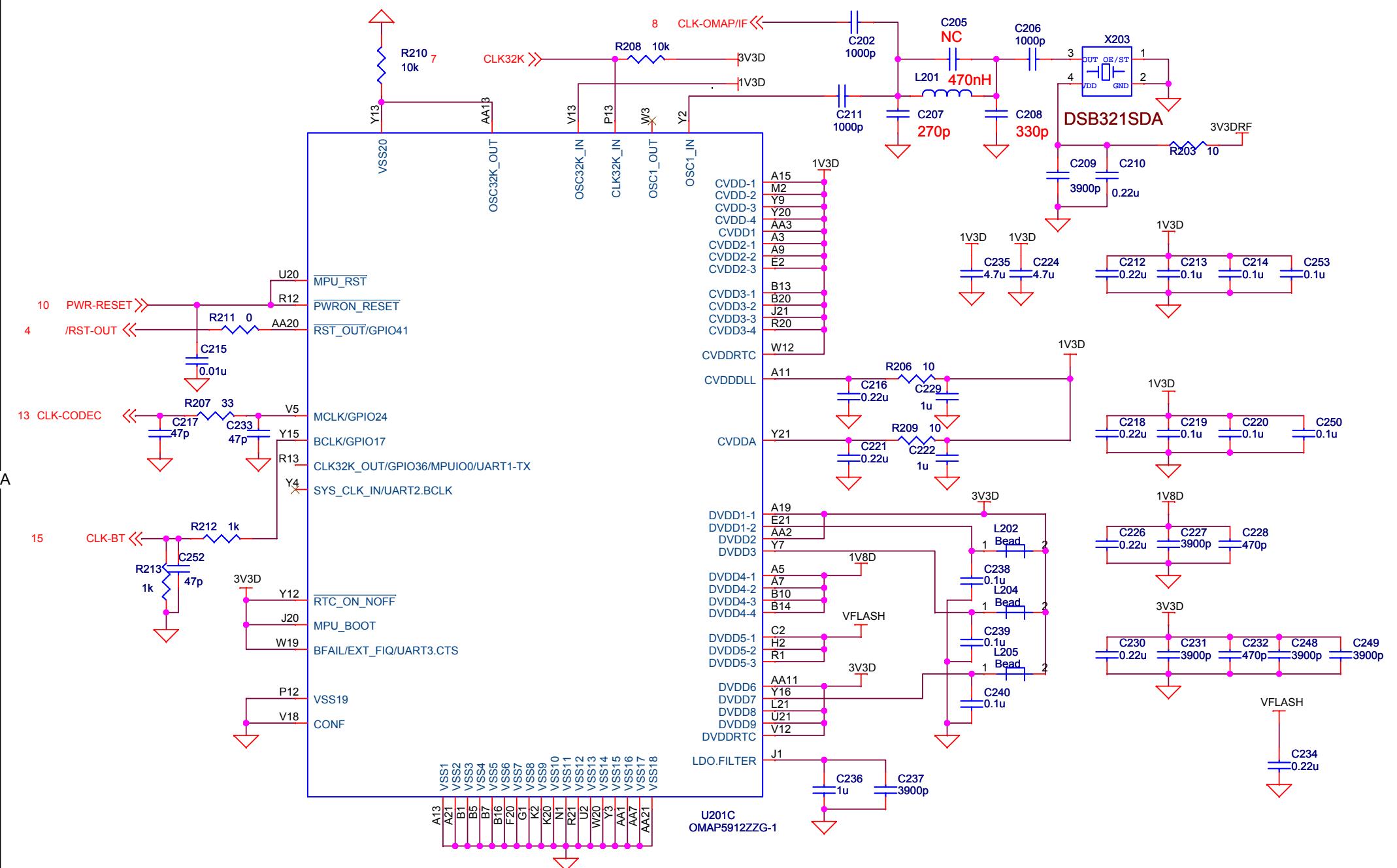


Bluetooth Circuit _UHF1

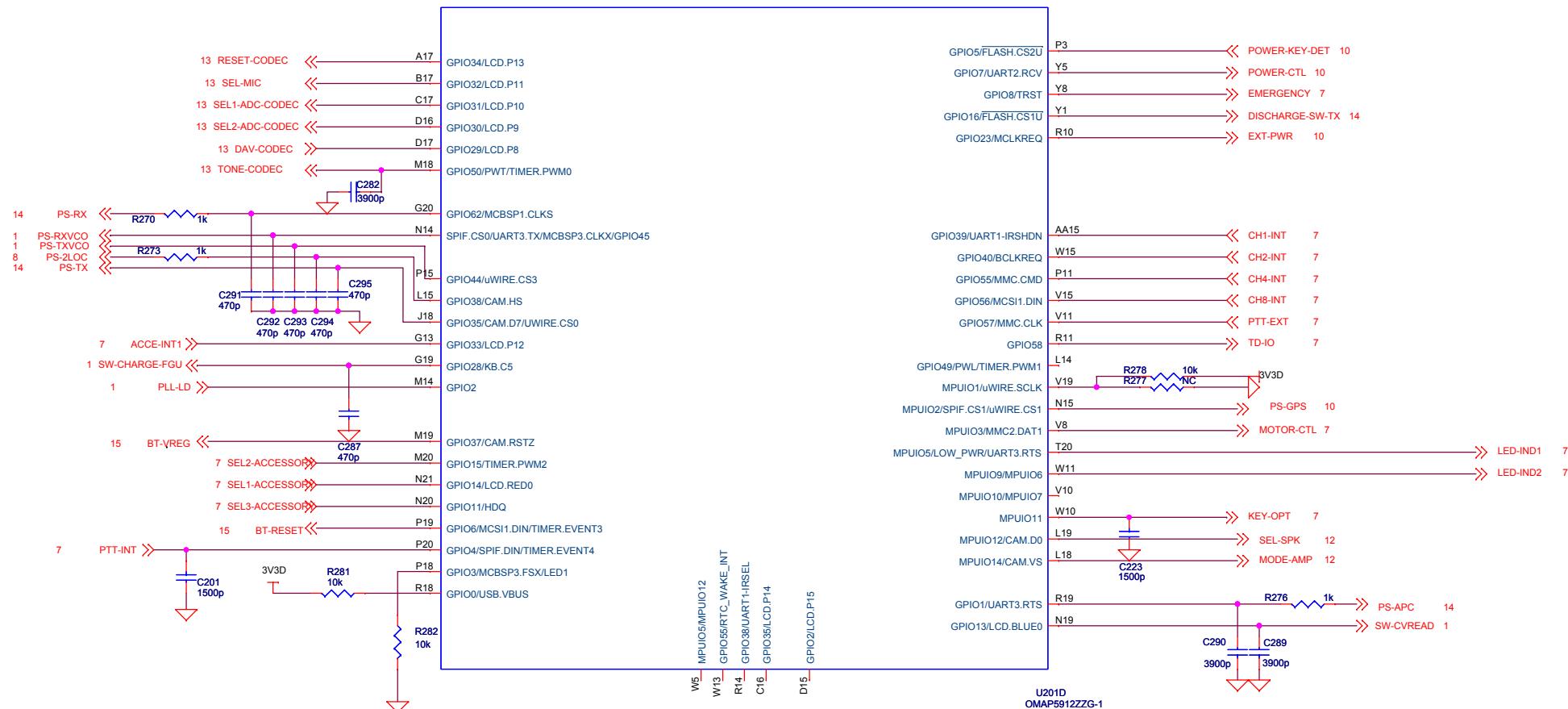




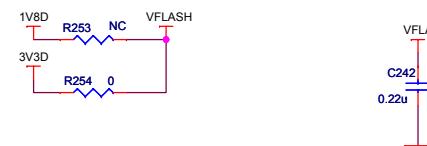
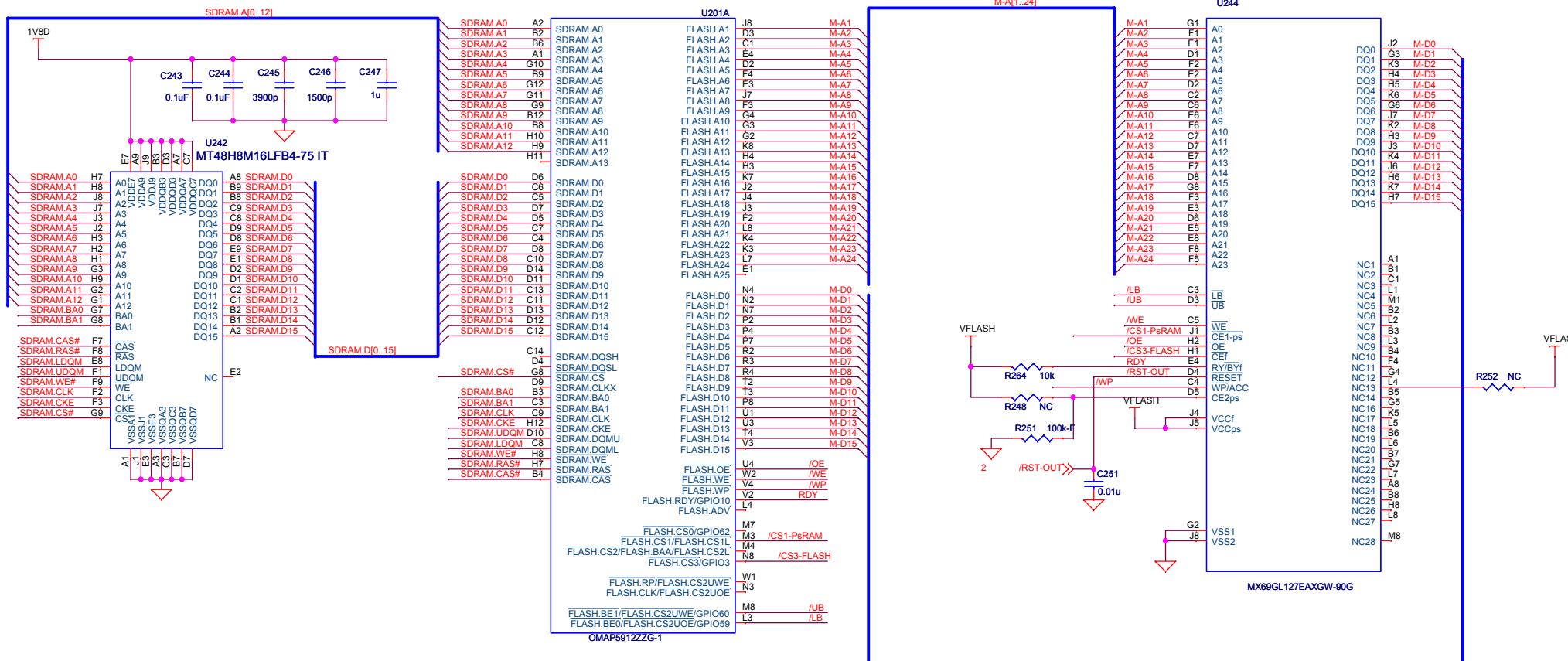
OMAP-Core Circuit _UHF3



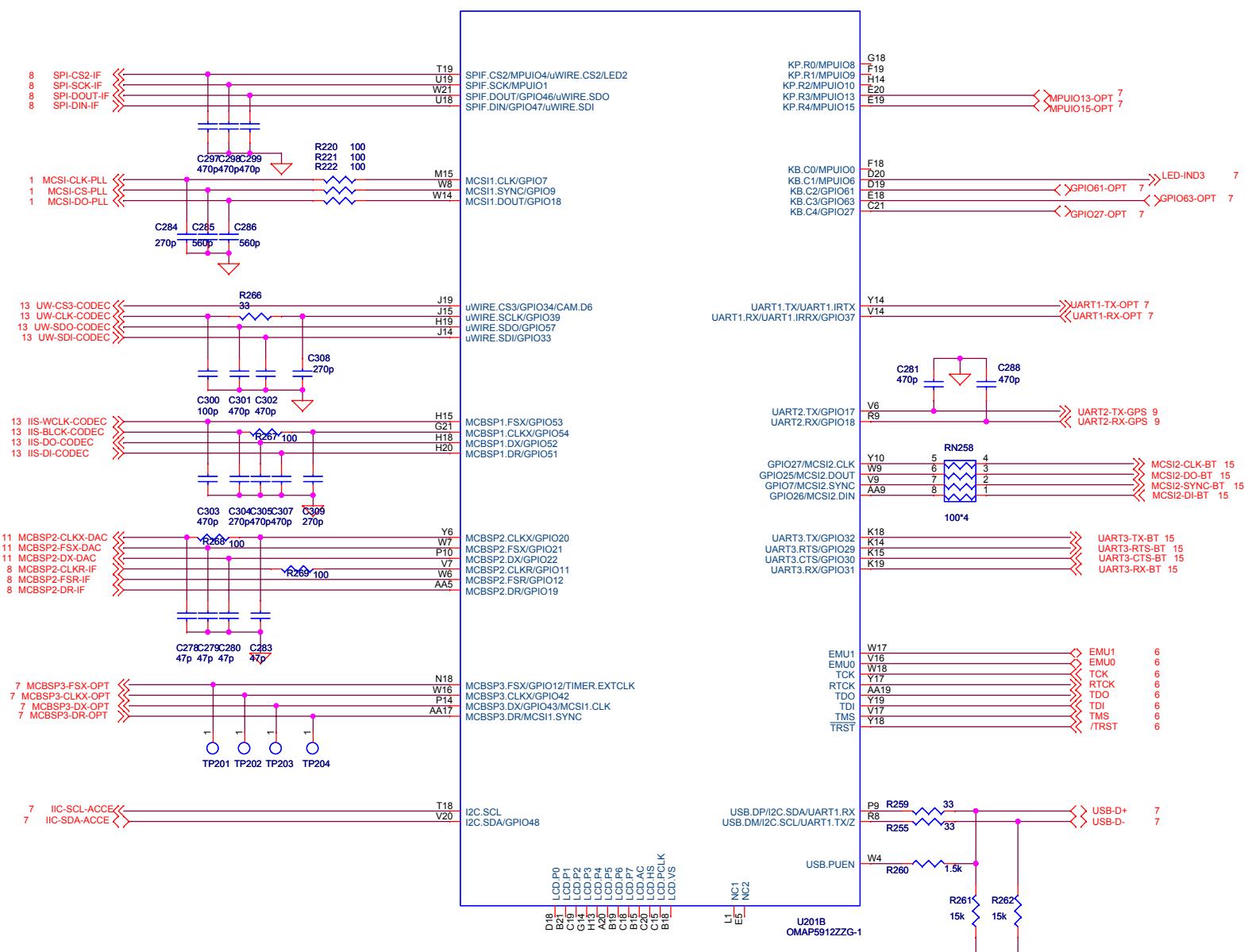
OMAP Interface Circuit 1 _UHF3



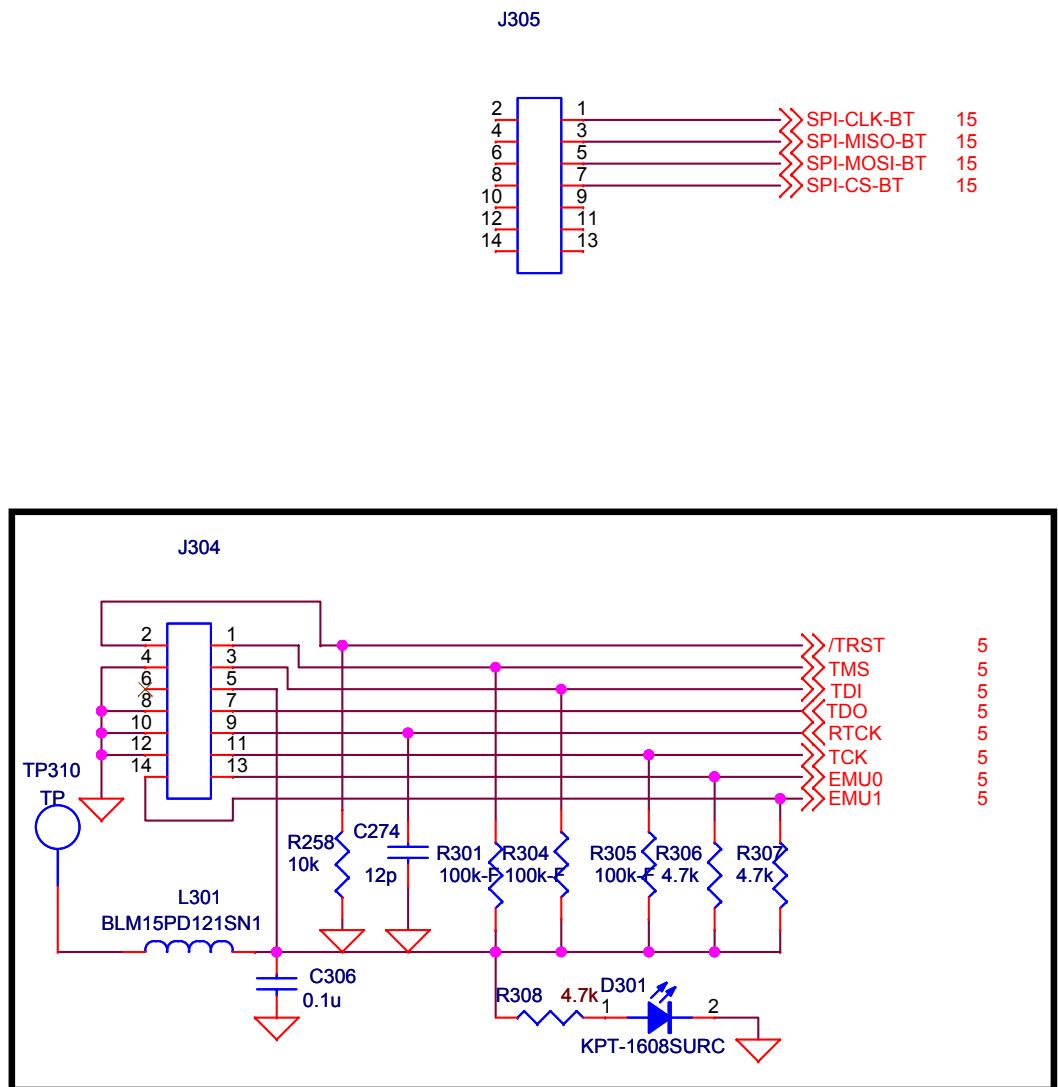
Memory Circuit _UHF3



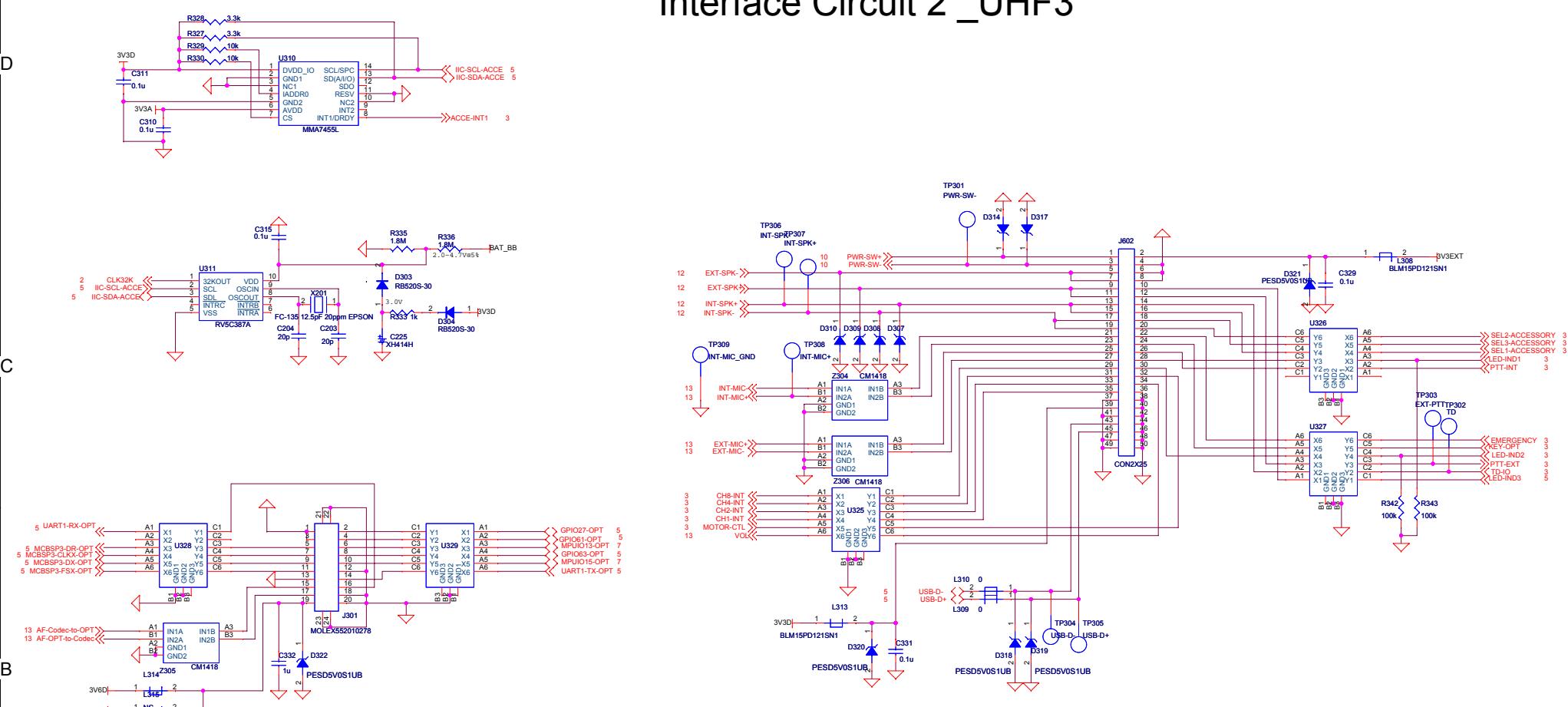
OMAP Interface Circuit 2 _UHF3



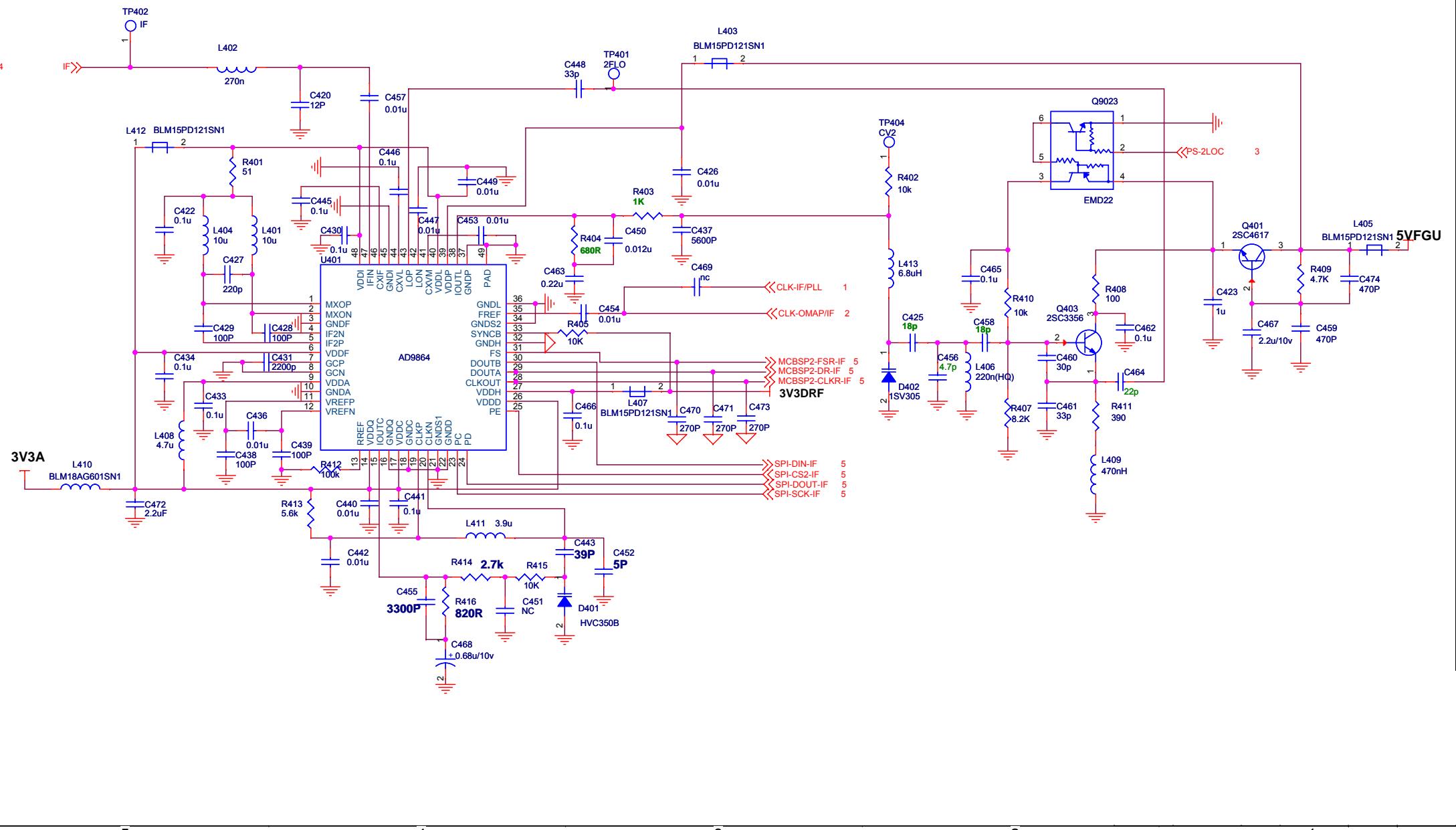
Interface Circuit 1 _UHF3



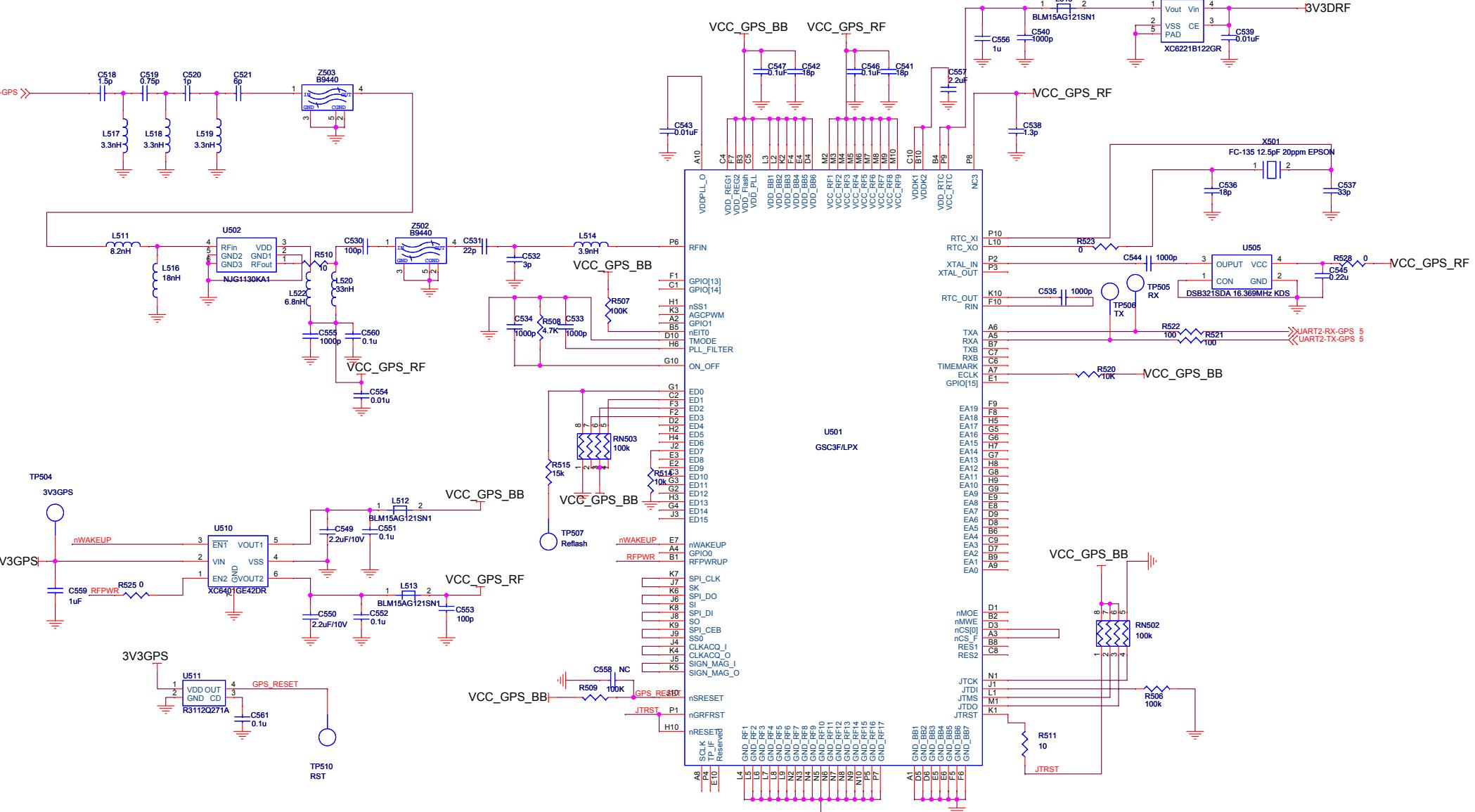
Interface Circuit 2 _UHF3



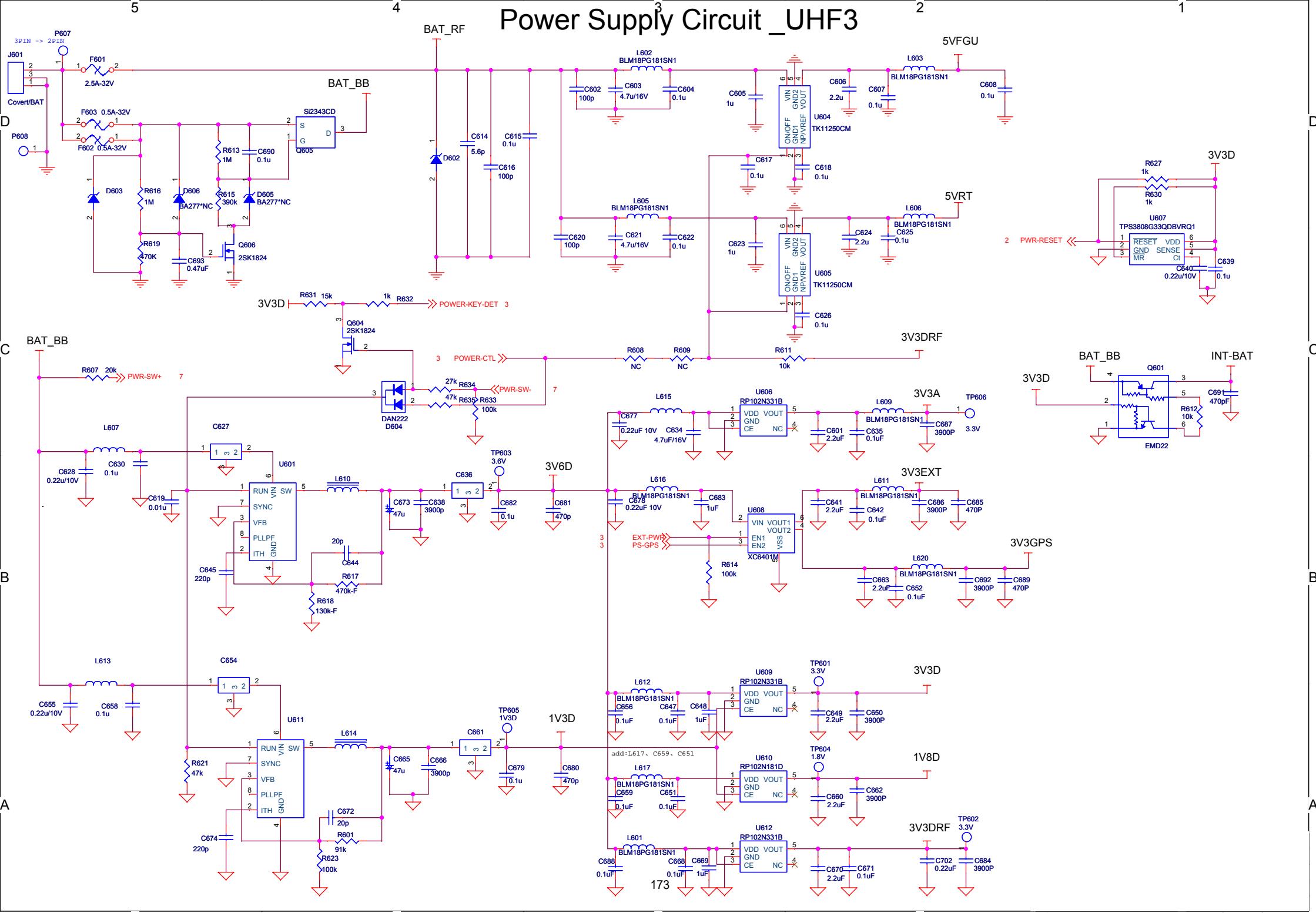
IF Processor Circuit _UHF3



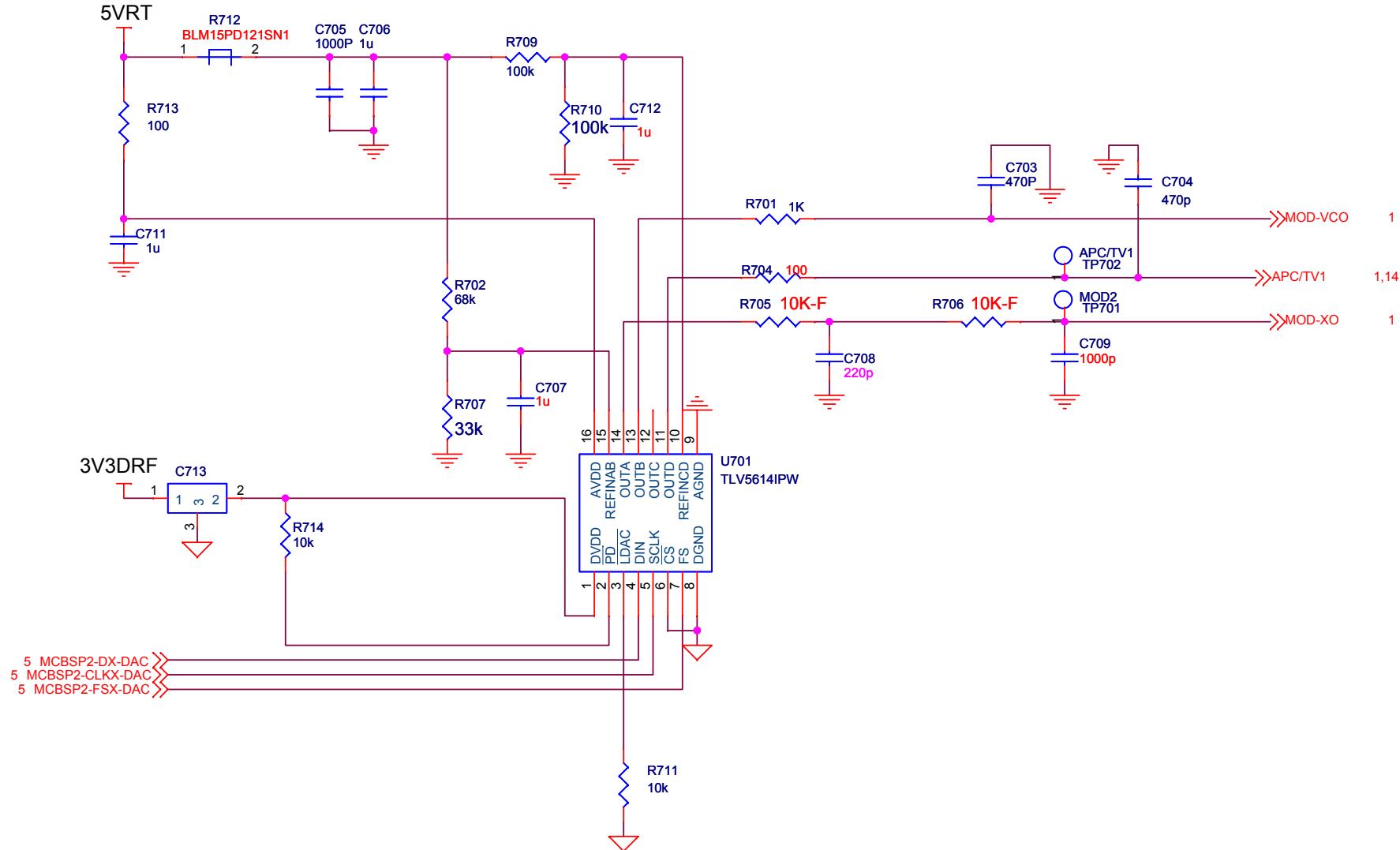
GPS Circuit _UHF3



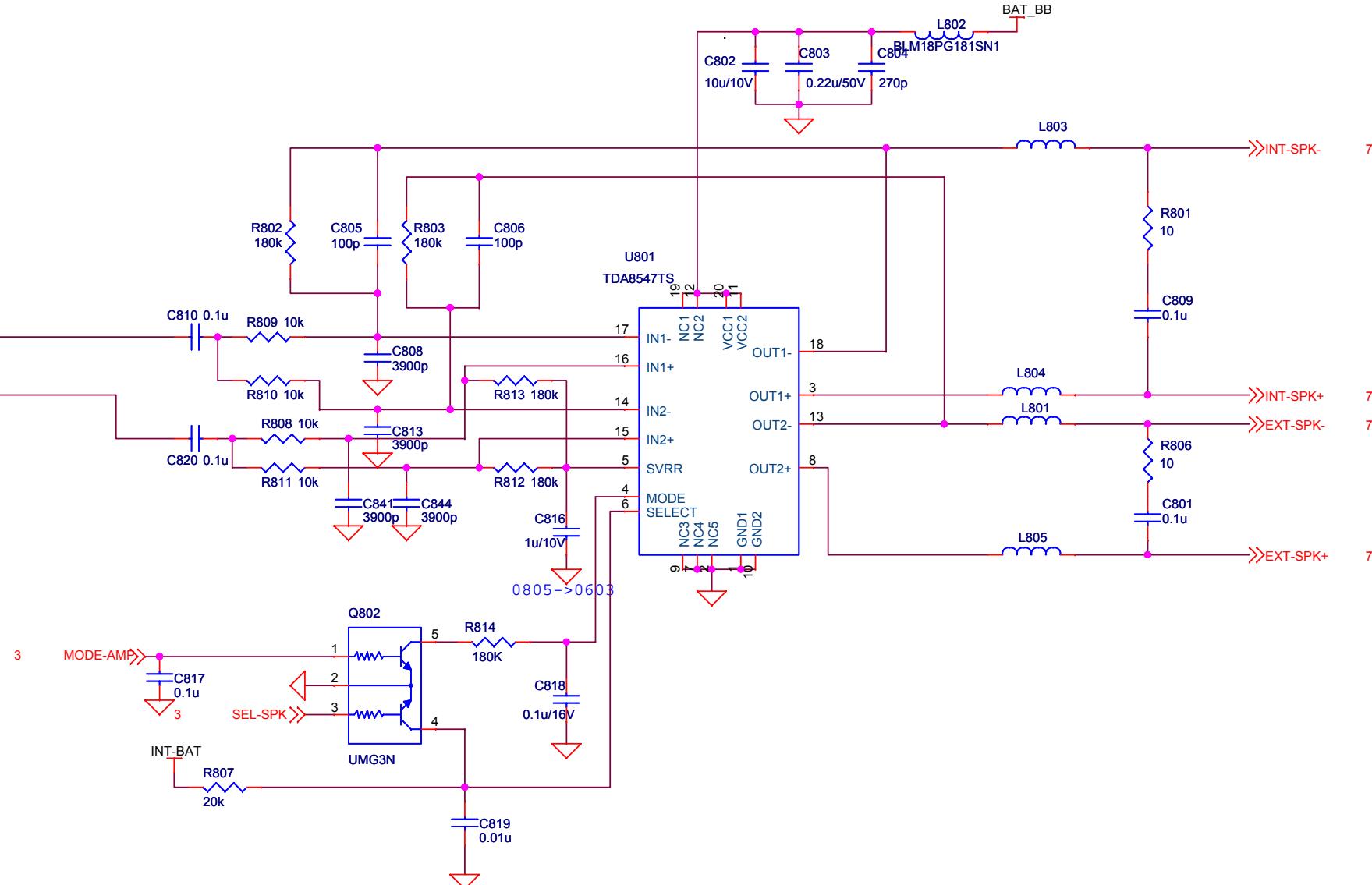
Power Supply Circuit _UHF3



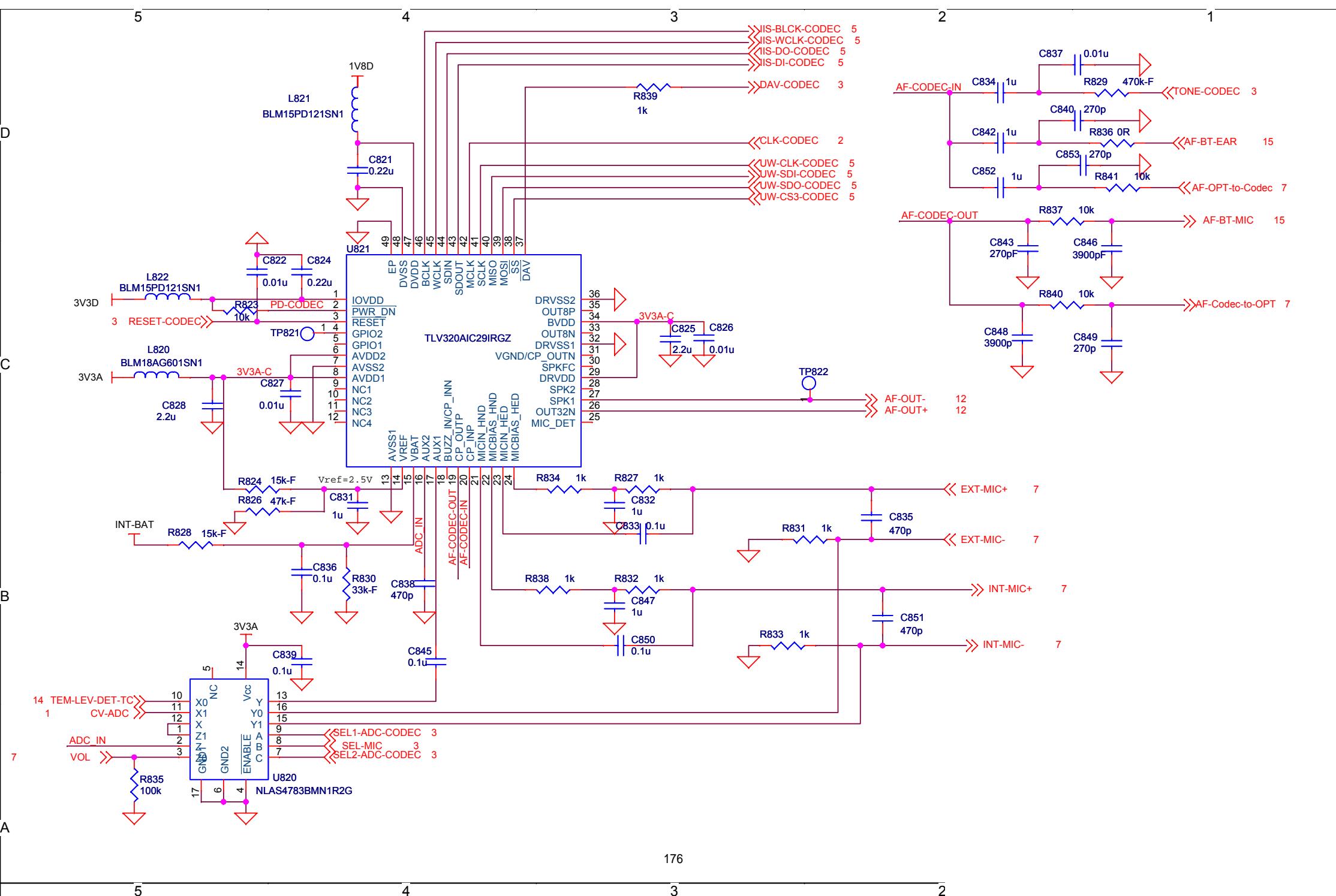
DAC Circuit _UHF3



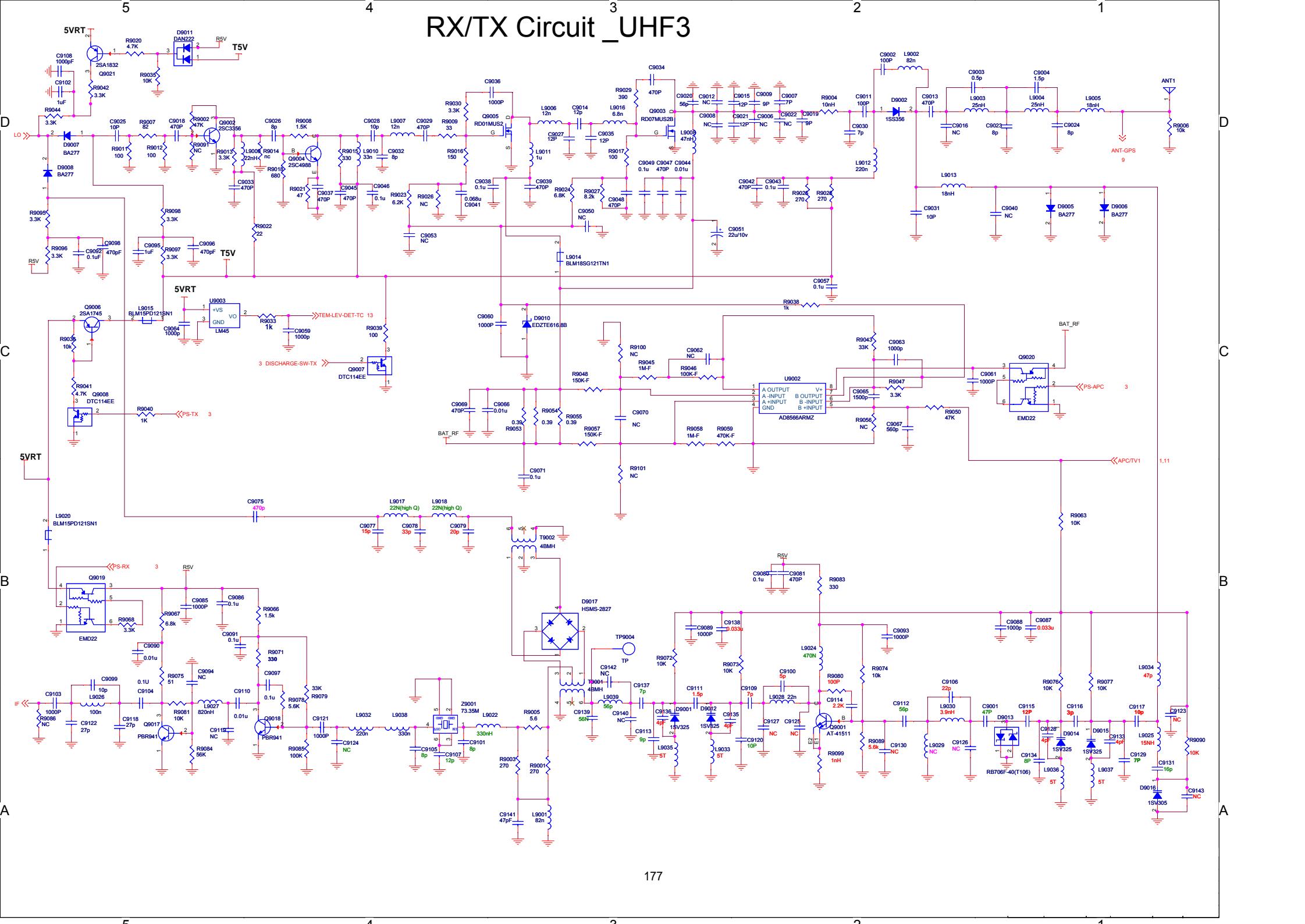
Audio Power Amplifier Circuit _UHF3



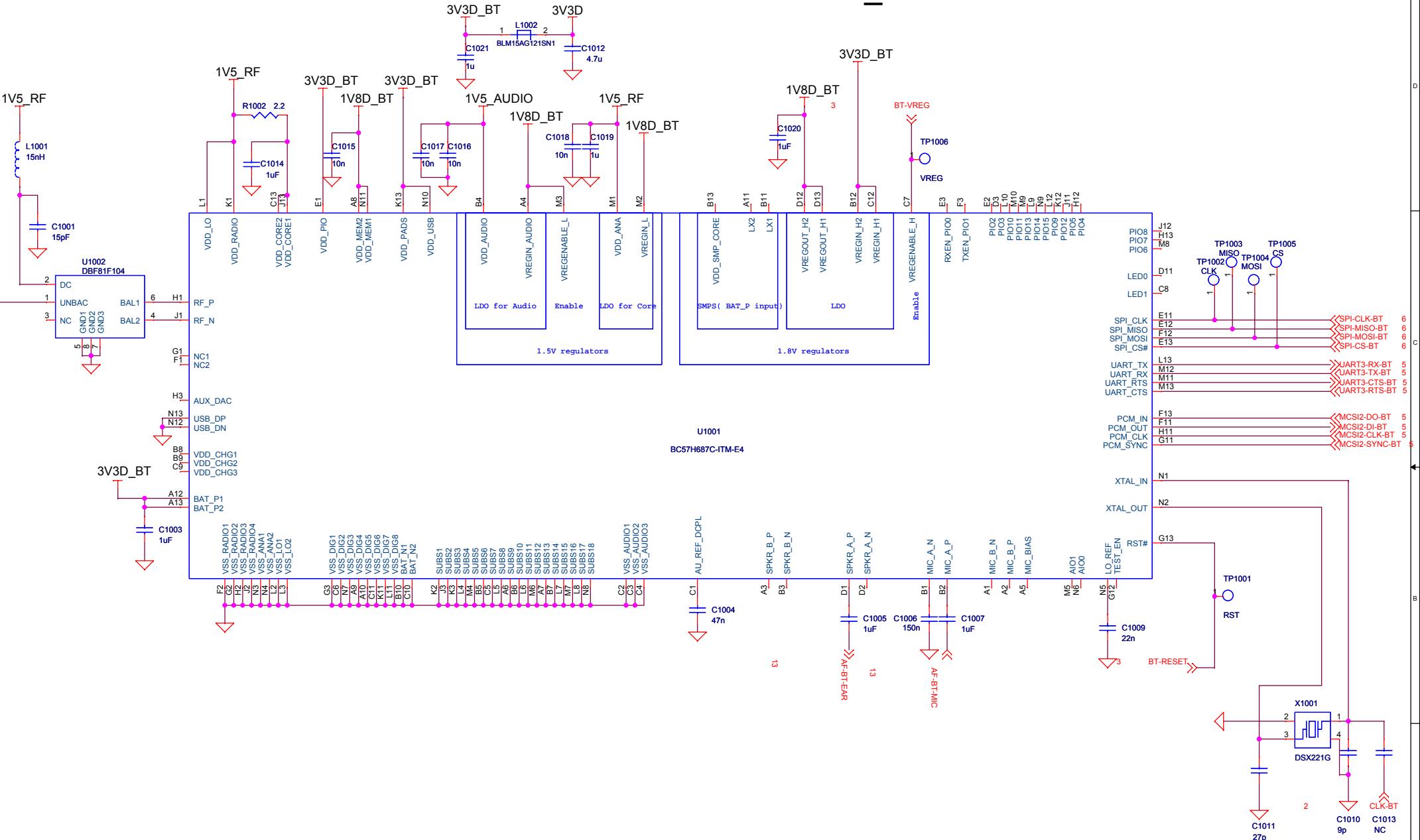
CODEC Circuit _UHF3



RX/TX Circuit _UHF3



Bluetooth Circuit _UHF3



14. Specifications

General		
Frequency Range		<ul style="list-style-type: none"> ● VHF: 136-174MHz ● UHF1: 400-470MHz ● UHF3: 330-400MHz
Channel Capacity		32
Channel Spacing		25/20/12.5KHz
Operating Voltage		7.4V (rated)
Battery		1100mAh Li-Ion battery
Battery Life (5-5-90 Duty Cycle, High TX Power) High-capacity 1100mAh Li-Ion Battery		<ul style="list-style-type: none"> ● Analog: Above 7 hours ● Digital: Above 8.5 hours
Operating Temperature		-30°C ~ +60°C
Dimensions (H×W×D) (with standard battery, without antenna)		119.5 × 57 × 18mm / 4.704 × 2.244 × 0.708 inch
Weight (with antenna & standard battery)		About 200g / 0.44lb
Frequency Stability		±1.5ppm
Receiver		
Sensitivity	Analog	<ul style="list-style-type: none"> ● 0.3µV (12dB SINAD) ● 0.22µV (Typical) (12dB SINAD) ● 0.4µV (20dB SINAD)
	Digital	0.3µV /BER5%
Adjacent Channel Selectivity TIA-603 ETSI		<ul style="list-style-type: none"> ● 60dB @ 12.5 kHz / 70dB @ 20&25 kHz ● 60dB @ 12.5 kHz / 70dB @ 20&25 kHz
Intermodulation TIA-603 ETSI		<ul style="list-style-type: none"> ● 70dB @ 12.5/20/25 kHz ● 65dB @ 12.5/20/25 kHz

Spurious Response Rejection TIA-603 ETSI	<ul style="list-style-type: none"> ● 70dB @ 12.5/20/25 kHz ● 70dB @ 12.5/20/25 kHz
Rated Audio Power Output	0.5W (16Ω load)
Rated Audio Distortion	≤3%
Transmitter	
Power Output	<ul style="list-style-type: none"> ● VHF: 5W/1W ● UHF1&UHF3: 4.2W/1W
Conducted/Radiated Emission	<ul style="list-style-type: none"> ● -36dBm<1GHz ● -30dBm>1GHz
Modulation Limiting	<ul style="list-style-type: none"> ● ±2.5kHz @ 12.5 kHz ● ±4.0kHz @ 20 kHz ● ±5.0kHz @ 25 kHz
FM Noise	<ul style="list-style-type: none"> ● 40dB @ 12.5 kHz ● 43dB @ 20KHz ● 45dB @ 25 kHz
Audio Distortion	≤3%
GPS	
TTFF (Time To First Fix) Cold Start	< 60 seconds
TTFF (Time To First Fix) Hot Start	<10 seconds
Horizontal Accuracy	< 10 meters

Table 14-1 Specifications

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

15. Appendix

15.1 Table of Blind Spots

15.1.1 VHF

No.	Blind Spot (MHz)
1	144
2	162
3	153.6
4	172.8

Table 15-1 VHF Blind Spot

15.1.2 UHF1

No.	Blind Spot (MHz)
1	403.2
2	460.8
3	409.225
4	441.963
5	458.332

Table 15-2 UHF1 Blind Spot

15.1.3 UHF3

No.	Blind Spot (MHz)
1	360.0
2	361.35
3	364.8
4	378.0
5	379.35
6	380.55
7	384.0

No.	Blind Spot (MHz)
8	396.0
9	397.35
10	399.75

Table 15-3 UHF3 Blind Spot

Hytera

is the trademark or registered trademark of Hytera Communications Corp., Ltd.
© 2012 Hytera Corp., Ltd. All Rights Reserved.

Address: HYT Tower, Hi-Tech Industrial Park North, Beihuan
RD., Nanshan District, Shenzhen, China

Postcode: 518057

<http://www.hytera.com>



2012-5-17
L06773