GSM TELEPHONE

SGH-L770V

SERVICE Manual

GSM TELEPHONE

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2008. 05 Rev.1.0

2. Specification

2-1. GSM General Specification

	EGSM 900	DCS 1800	PCS 1900	WCDMA2100
Freq. Band[MHz] Uplink/Downlink	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990	1920~1980 2110~2170
ARFCN range	0~124 & 975~1023	512~885	512~810	UL:9612~9888 DL:10562~10838
Tx/Rx spacing	45MHz	95MHz	80MHz	190MHz
Mod. Bit rate/ Bit Period	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	3.84Mcps
Time Slot Period/Frame Period	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	Frame length : 10ms Slot length: 0.667ms
Modulation	0.3GMSK	0.3GMSK	0.3GMSK	QPSK HQPSK
MS Power	33dBm~5dBm	30dBm~0dBm	30dBm~0dBm	24dBm~ -50dBm
Power Class	4 (max +33dBm)	1 (max +30dBm)	1 (max +30dBm)	3 (max +24dBm)
Sensitivity	-102dBm	-100dBm	-100dBm	-106.7dBm
TDMA Mux	8	8	8	NA
Cell Radius	35Km	2Km	2Km	2Km

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2-2. GSM Tx Power Class

TX Power control level	GSM900
5	33±2 dBm
6	31±2 dBm
7	29±2 dBm
8	27±2 dBm
9	25±2 dBm
10	23±2 dBm
11	21±2 dBm
12	19±2 dBm
13	17±2 dBm
14	15±2 dBm
15	13±2 dBm
16	11±3 dBm
17	9±3dBm
18	7±3 dBm
19	5±3 dBm

TX Power control level	DCS1800
0	30±3 dBm
1	28±3 dBm
2	26±3 dBm
3	24±3 dBm
4	22±3 dBm
5	20±3 dBm
6	18±3 dBm
7	16±3 dBm
8	14±3 dBm
9	12±4 dBm
10	10±4 dBm
11	8±4dBm
12	6±4 dBm
13	4±4 dBm
14	2±5 dBm
15	0±5 dBm

TX Power control level	PCS1800
0	30±3 dBm
1	28±3 dBm
2	26±3 dBm
3	24±3 dBm
4	22±3 dBm
5	20±3 dBm
6	18±3 dBm
7	16±3 dBm
8	14±3 dBm
9	12±4 dBm
10	10±4 dBm
11	8±4dBm
12	6±4 dBm
13	4±4 dBm
14	2±5 dBm
15	0±5 dBm

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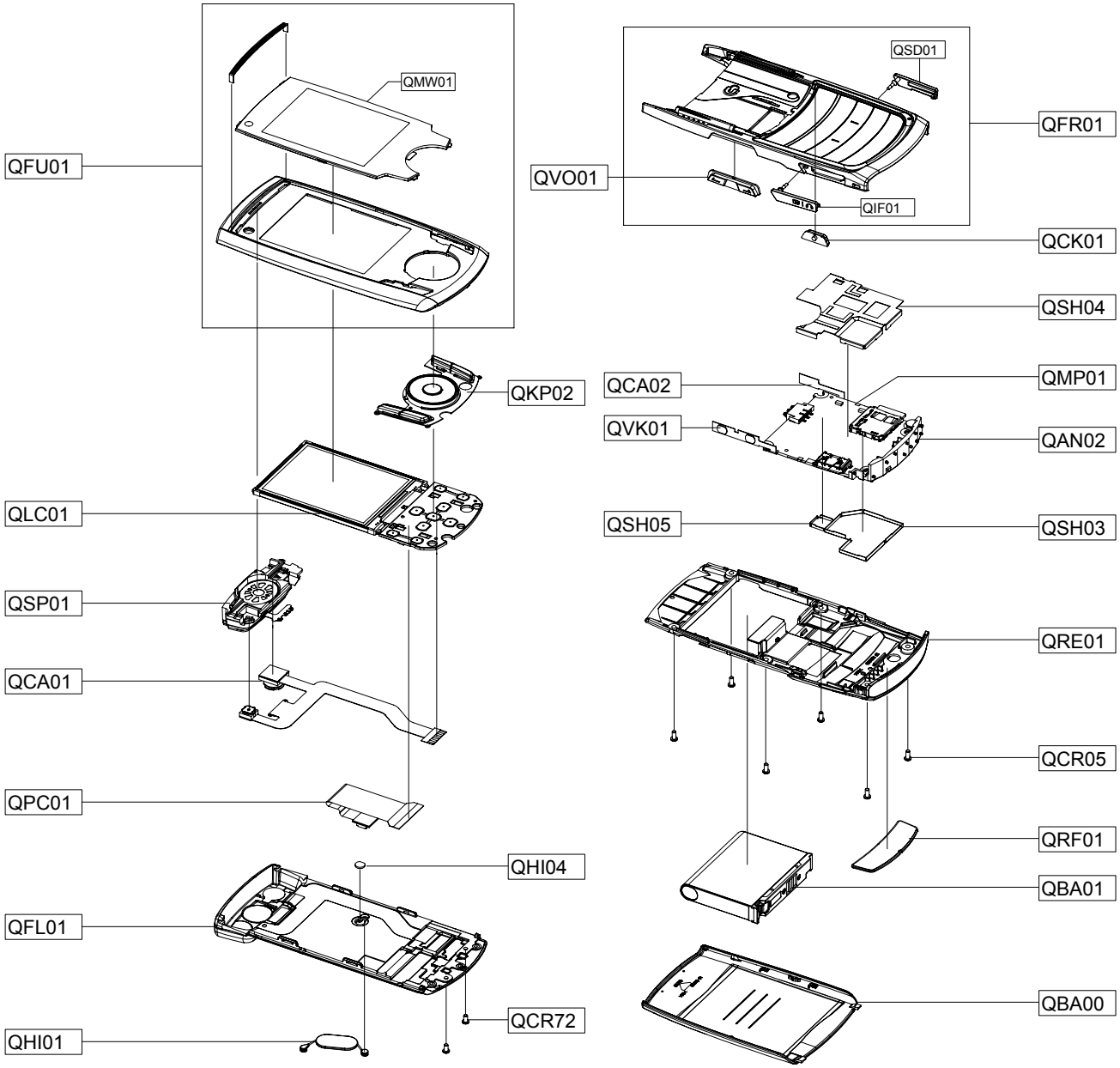
5. Exploded View and Parts List

5-1. Cellular phone Exploded View



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5-2. Cellular phone Parts list

Design LOC			Discription	SEC CODE
QAN02			INTENNA-SGHL770V	GH42-01523A
QBA00			PMO COVER-BATTERY	GH72-45838B
QBA01			INNER BATTERY PACK-880MAH , BL	GH43-02666A
QCA01			CAMERA MODULE-SGHL770V(2M+CIF)	GH59-05570A
QCA02			KEY FPCB-CAMERA 1KEY	GH59-05518A
QCK01			PMO KEY-CAMERA	GH72-45847B
QCR05			SCREW-MACHINE	6001-001478
QCR72			SCREW-MACHINE	6001-002051
QFL01			ASSY CASE-SLIDE LOWER	GH98-07227B
QHI01			ASSY HINGE-MODULE	GH98-07230A
QHI04			PMO COVER-HINGE CAP	GH72-45849A
QKP02			ASSY CASE-SUB KEYPAD(OPEN)	GH98-07231A
QLC01			LCD-MAIN LCD MODULE	GH07-01263A
QMP01			PBA MAIN-SGHL770V	GH92-04447A
QPC01			FPC-CON TO CON(L770V)	GH41-02085A
QRE01			ASSY CASE-REAR	GH98-07526B
QRF01			ASSY COVER-RF	GH98-07840B
QSH03			ASSY COVER-SHIELD CAN REAR B	GH98-08816A
QSH04			ASSY COVER-SHIELD FRONT	GH98-08143A
QSH05			IPR SHIELD-COVER REAR_A	GH70-03211A
QSP01			UNIT-MODULE SPK/MOT(L770V)	GH59-05521A
QVK01			KEY FPCB-VOLUME 2KEY	GH59-05519A
QVO01			PMO KEY-VOLUME	GH72-45846B
QFR01			ASSY CASE-FRONT	GH98-07523B
	QIF01		PMO COVER-IF	GH72-45844B
	QSD01		PMO COVER-MICRO SD	GH72-45845B
QFU01			ASSY CASE-SLIDE UPPER(VODA/BLK	GH98-07520B
	QMW01		ASSY COVER-WINDOW MAIN(VODA/BR	GH98-07521A

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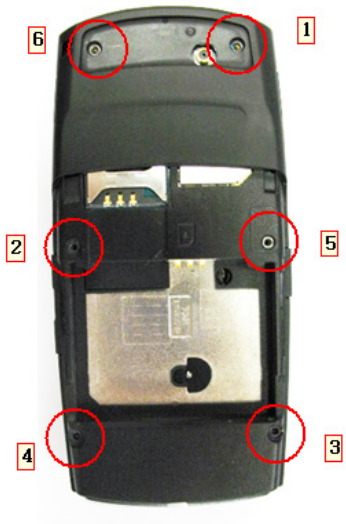
7. Disassembly and Assembly Instructions

7-1. Disassembly

1



1) Unscrew 6 points on the rear case.

※ **Caution**

1) Notice the rear case should not be damaged or scratched.

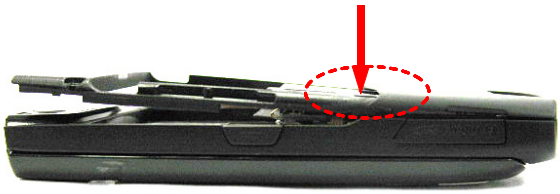
2

1) Separate the locker by inserting the disassembly pparatus into the gap between the front and the rear.

※ **Caution**

1) Notice the rear case not be damaged or scratched.
2) Notice the rear case not be deformed.

3

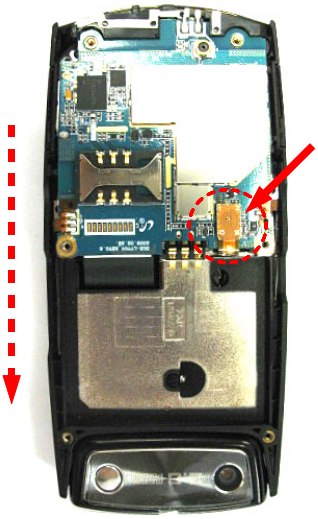


1) Separate the locker on the opposite side by inserting the disassembly apparatus into the gap between the front and the rear.
2) Remove the REAR.

※ **Caution**

1) Notice the rear case not be damaged or scratched.
2) Notice the rear case not be deformed.

4



1) Detach the KEY FPCB CONNECTOR.
2) Remove the PBA following the indication.

※ **Caution**

1) Notice the both INTENNA and INTENNA WIRE not be damaged
2) Notice the SLIDE FPCB not be damaged.

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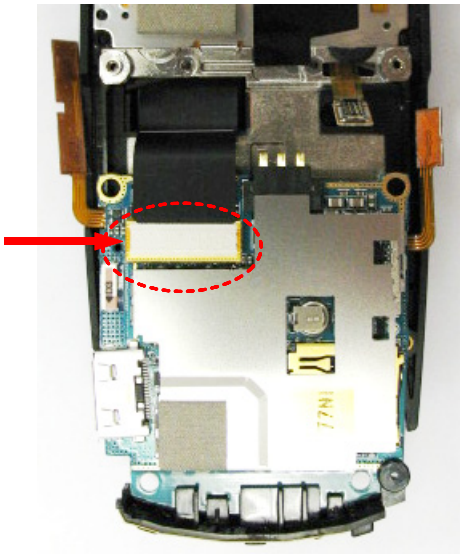
5

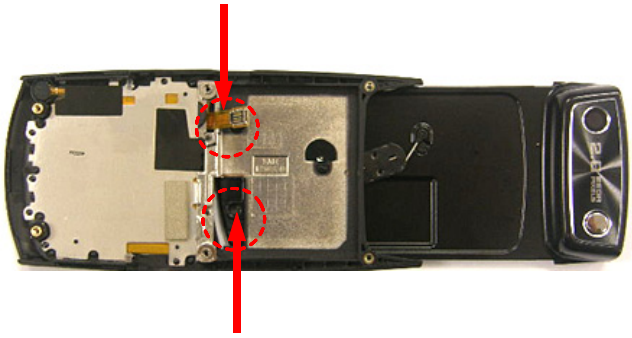


1) Detach the SLIDE FPCB CONNECTOR.

※ **Caution**

1) Notice the both PBA and FPCB not be damaged

6



1) Unscrew 2 point on the lower case

※ **Caution**

1) Notice the FPCB not be damaged.

7

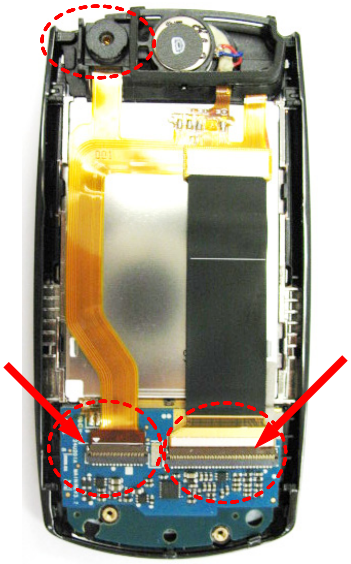
-Must use the disassembly apparatus

1) Separate the UPPER from lower part of FRONT case.

※ **Caution**

1) Notice the rear case should not be damaged or scratched.

8



1) Detach the SLIDE FPCB and SPK/CAM FPCB Connector. Then Separate them from PBA.

※ **Caution**

1) Notice the FPCB not be damaged.

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9 	
1) Separate UPPER into LCD Module, UPPER, SUB KEY PAD. ※ **Caution** 1) Notice the UPPER & LCD Module not be damaged	

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7-2. Assembly

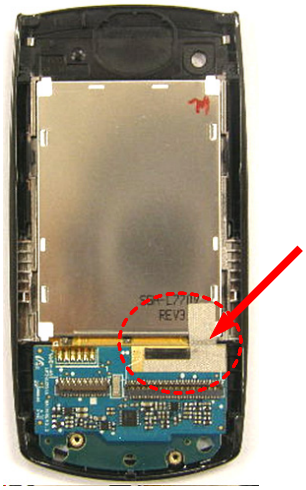
1

1) Join the SUB KEYPAD on the UPPER.

※ **Caution**

1) Make sure in the guideline.

2

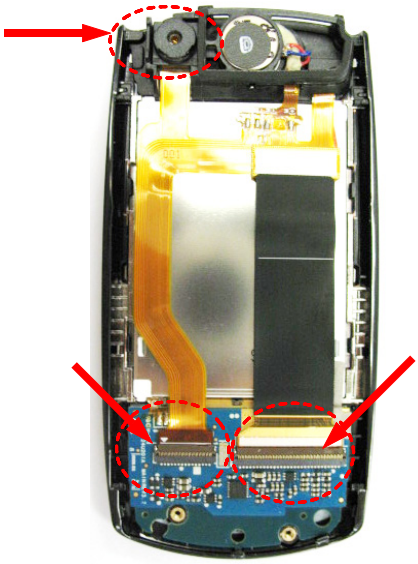


1) Join the LCD module on the UPPER.
2) Attach the conductive tape.

※ **Caution**

1) Make sure no between the WINDOW and LCD module.

3



1) Connect the SLIDE FPCB and SPK/CAM FPCB with PBA.

※ **Caution**

1) Notice the FPCB not be damaged.
2) Make sure CAMERA MODULE is exactly in place.

4

1) Make the Slide FPCB pass through the lower case. Then assemble the UPPER.

※ **Caution**

1) Notice the FPCB not be damaged.

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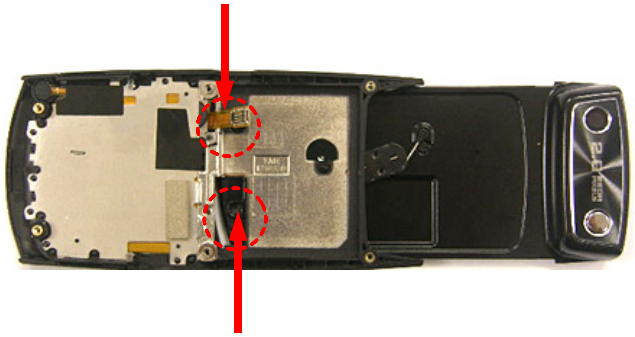
5

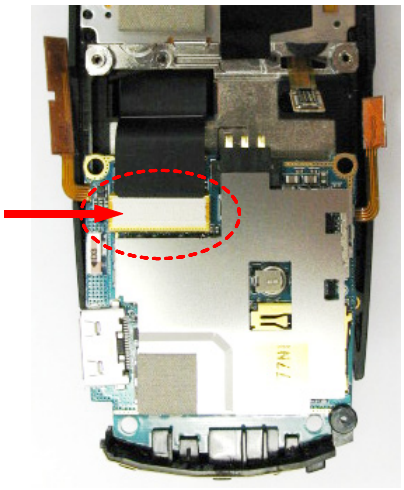


1) Screw 2 points on the lower case

※ **Caution**

1) Notice the FPCB not be damaged.

6

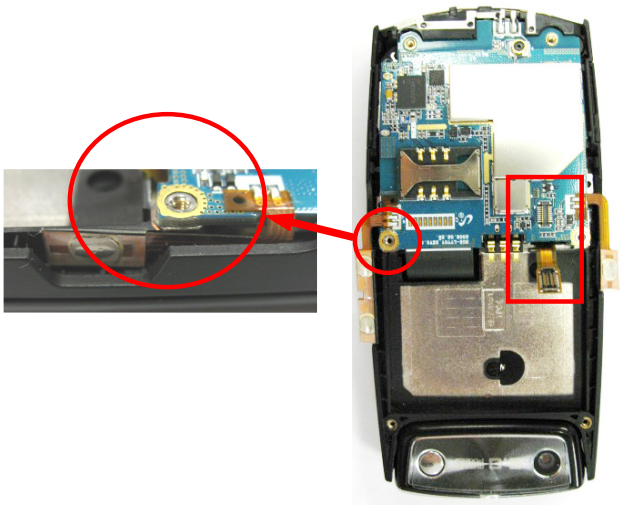


1) Attach the SLIDE FPCB to PBA.

※ **Caution**

1) Make sure the SLIDE FPCB CONNECTION.

7

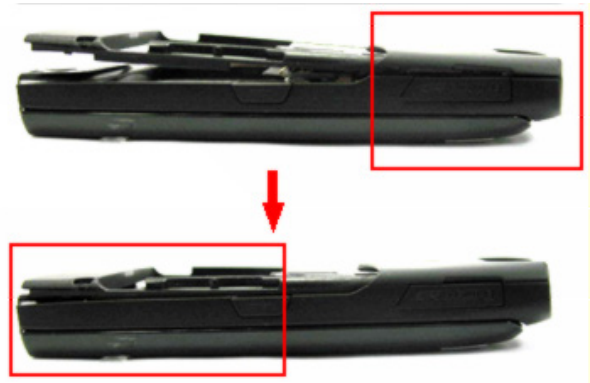


1) Join the PBA on the LOWER case.
2) Attach the KEY FPCB CONNECTOR.

※ **Caution**

1) Make sure the KEY FPCB CONNECTION.
2) Keep the guide line

8



1) Assemble the rear case with SET from the lower part of it.

※ **Caution**

1) Notice the rear case should not be damaged or scratched.
2) Make sure no gap between the front and rear case.

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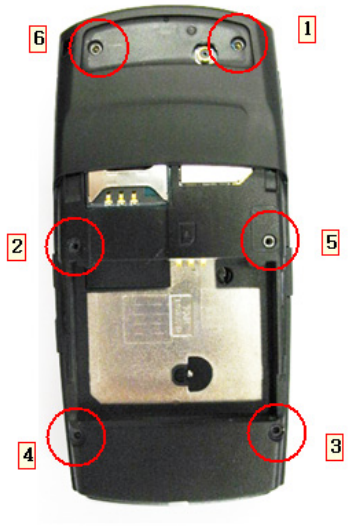
9



1) Screw 6 points on the rear case.

※ Caution

1) Notice the rear case should not be damaged or scratched.

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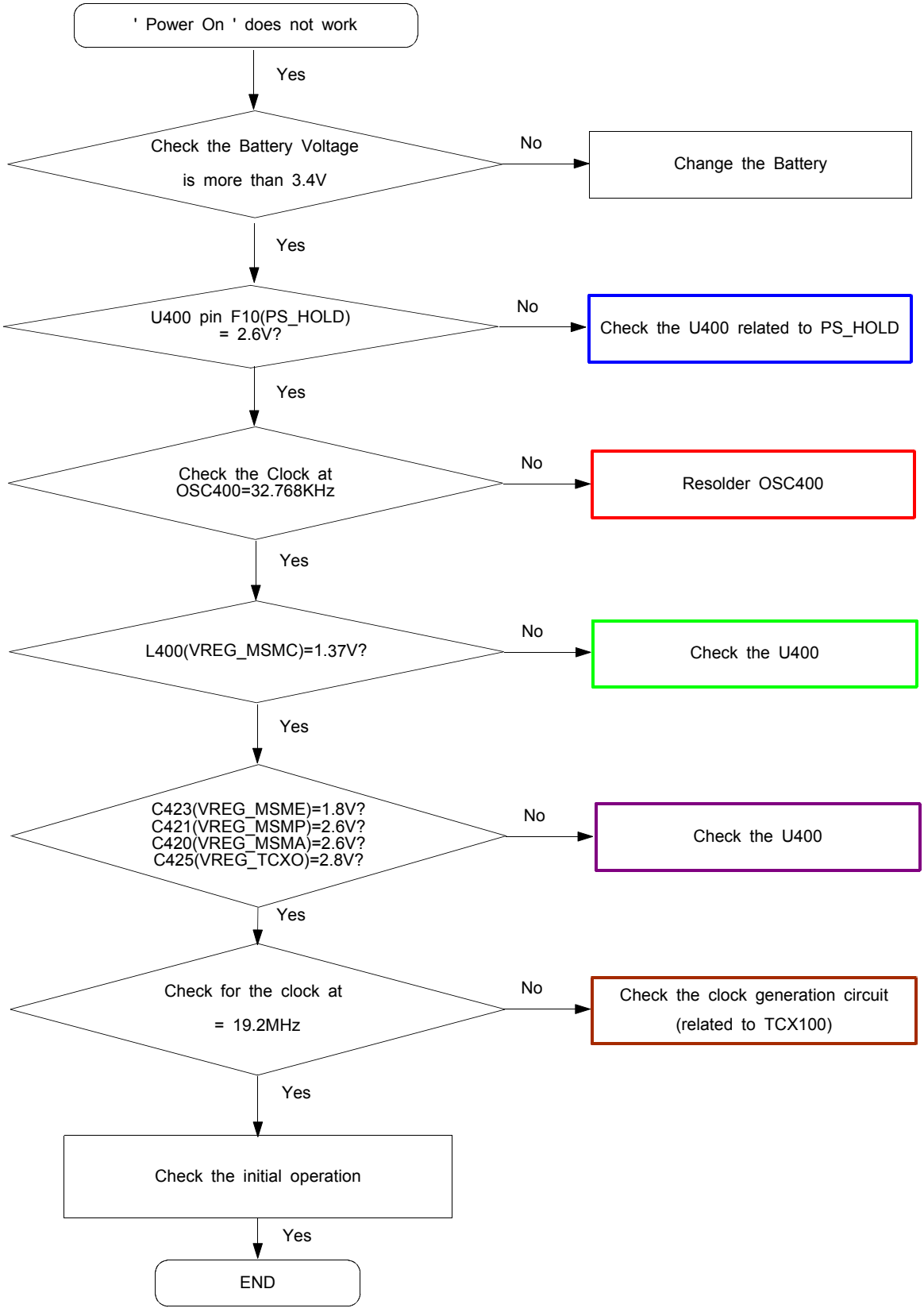
10. Flow Chart of Troubleshooting

10-1. Power On



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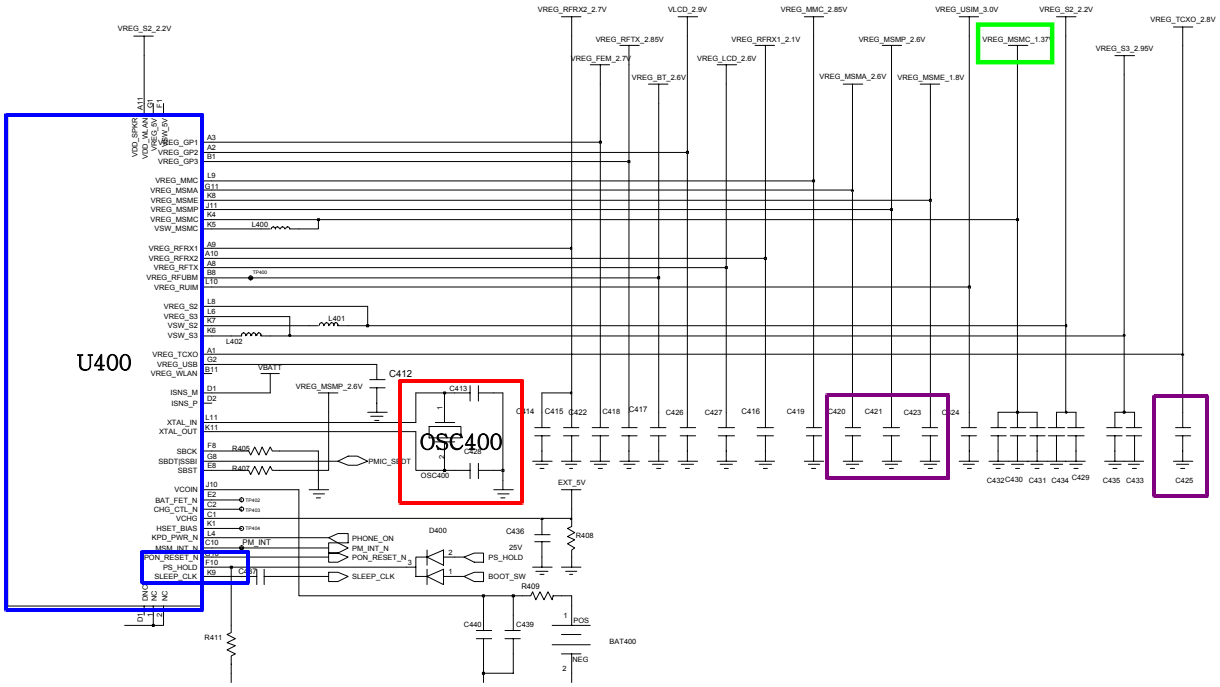

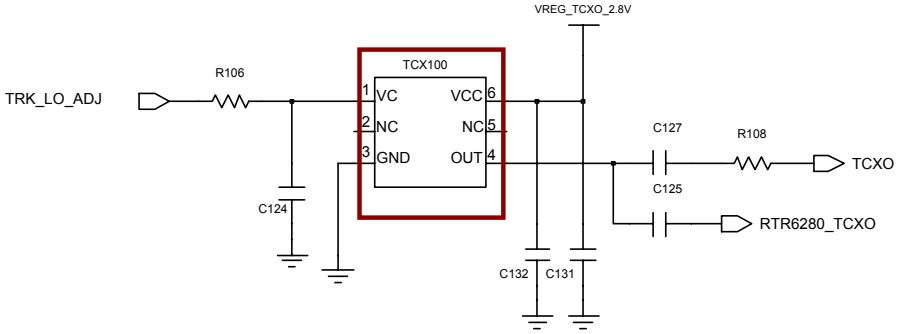

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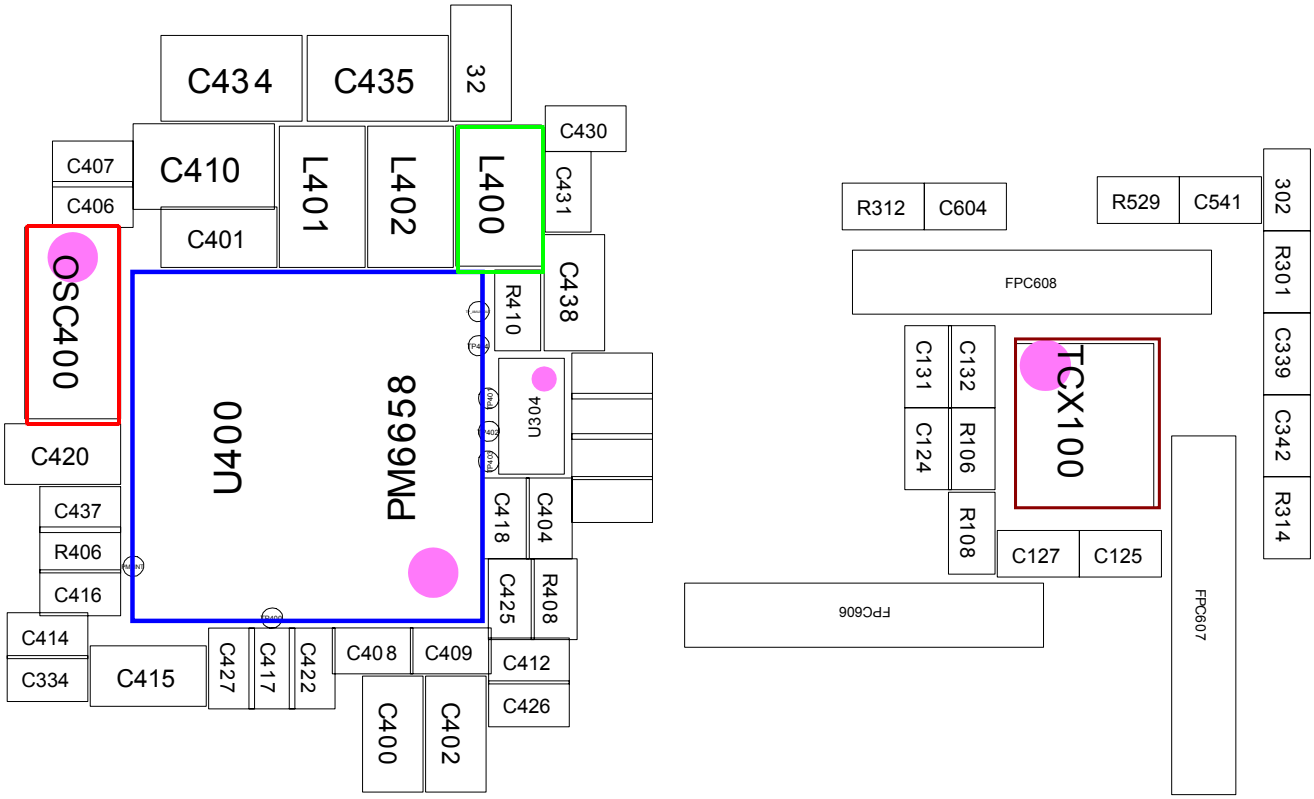

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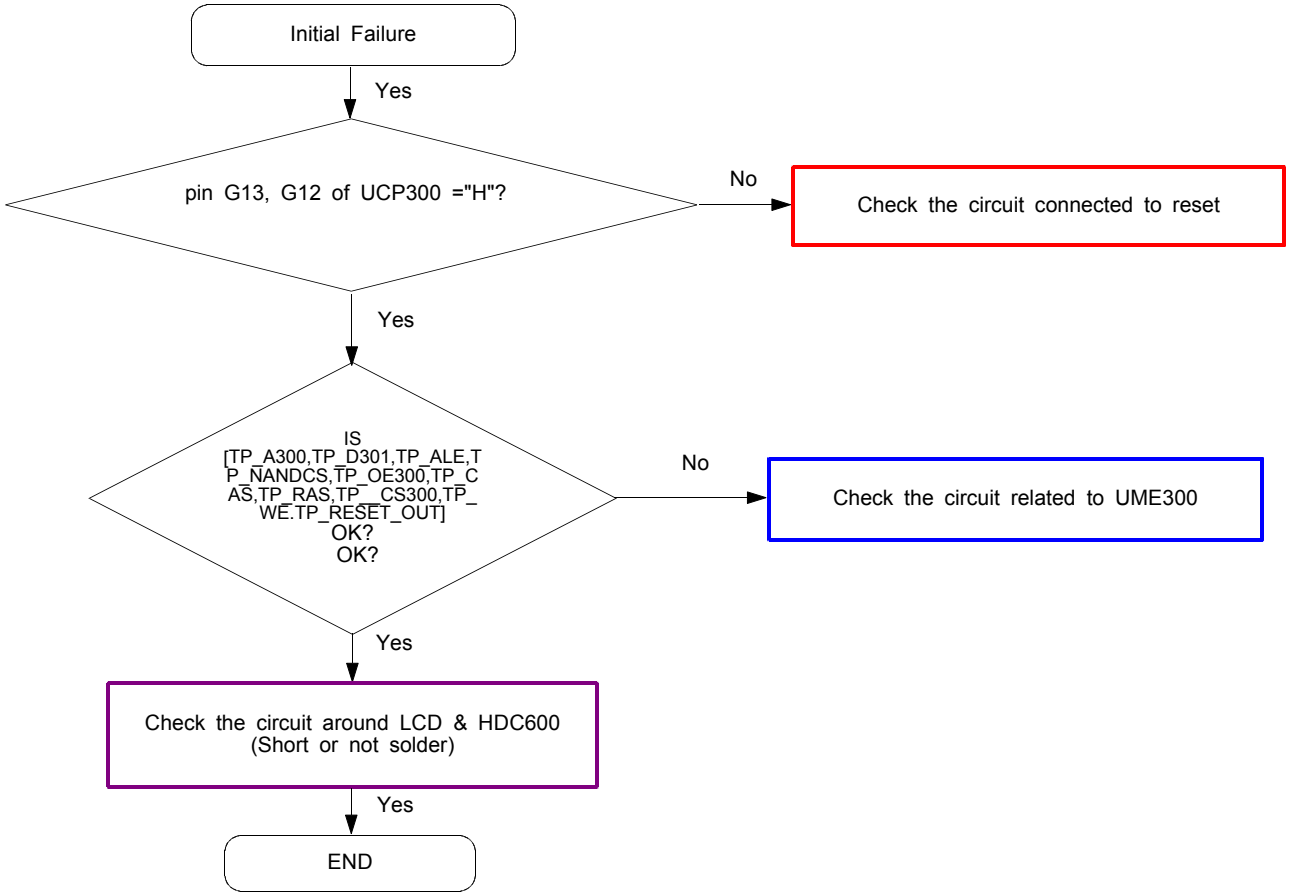
10-2. Initial



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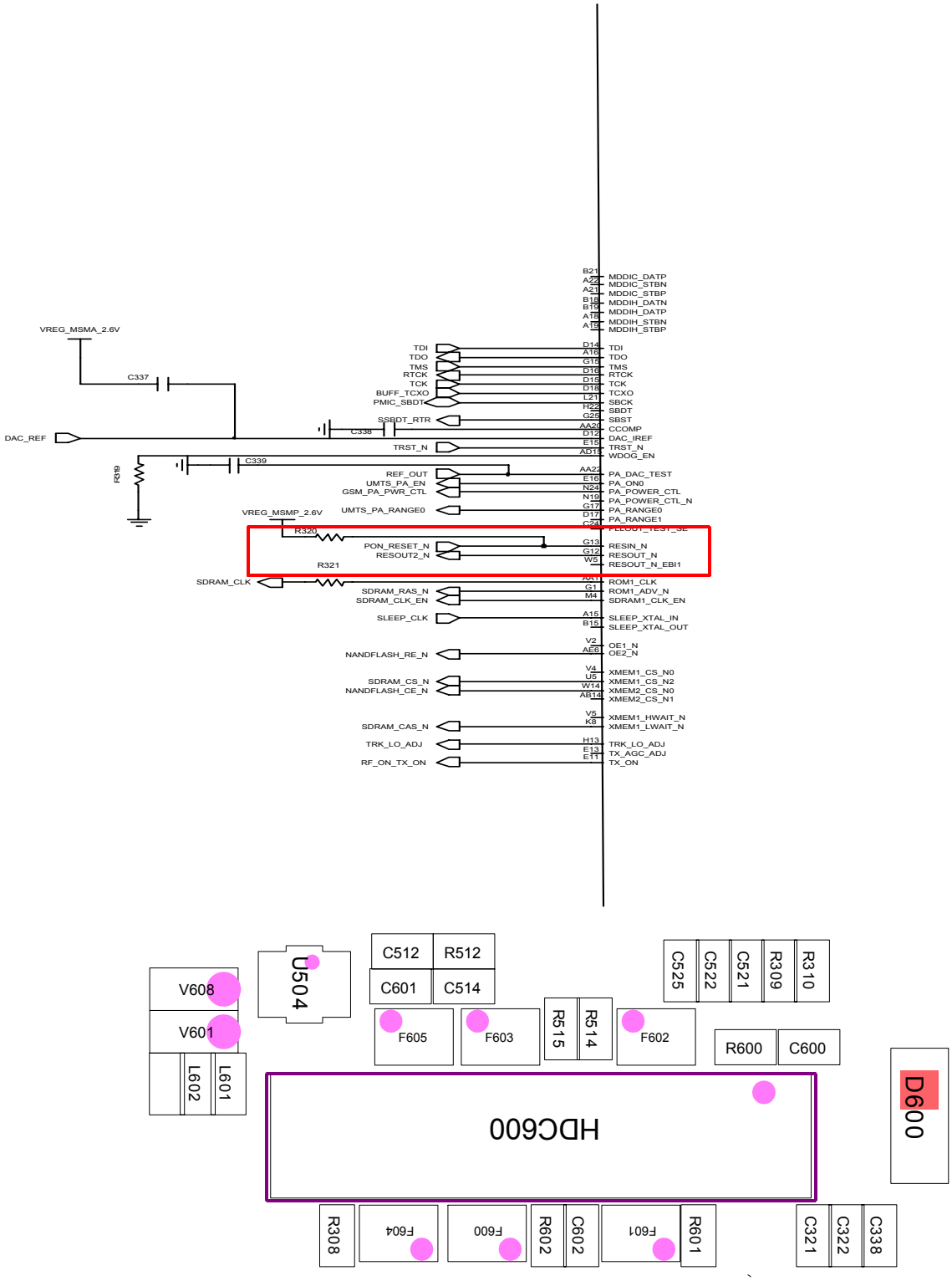

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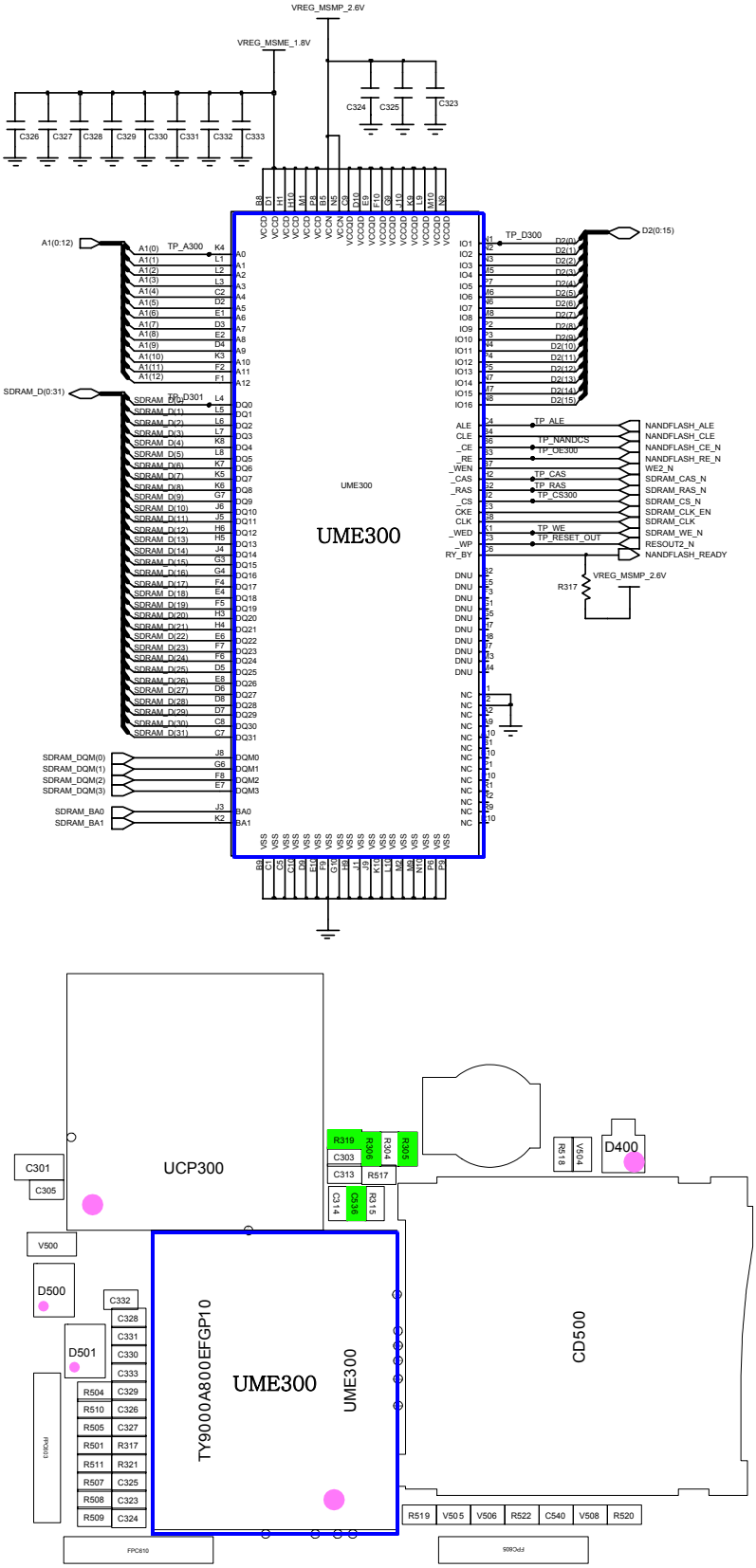

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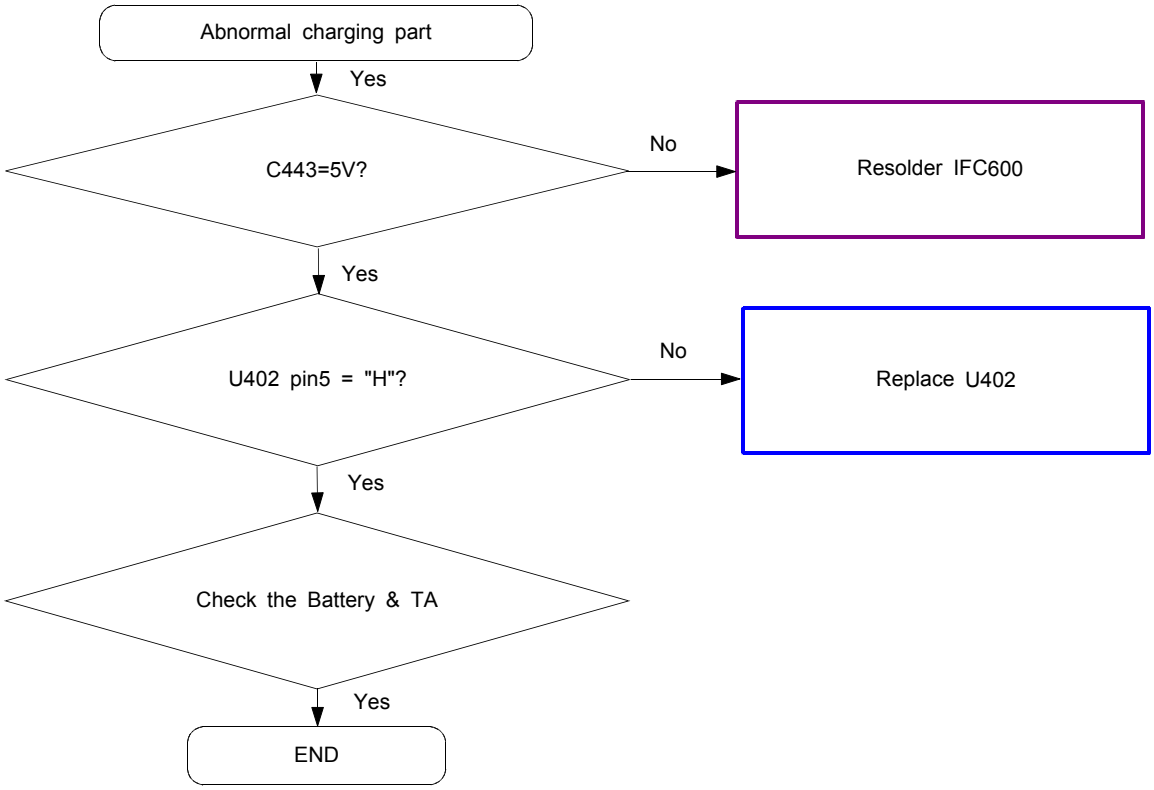
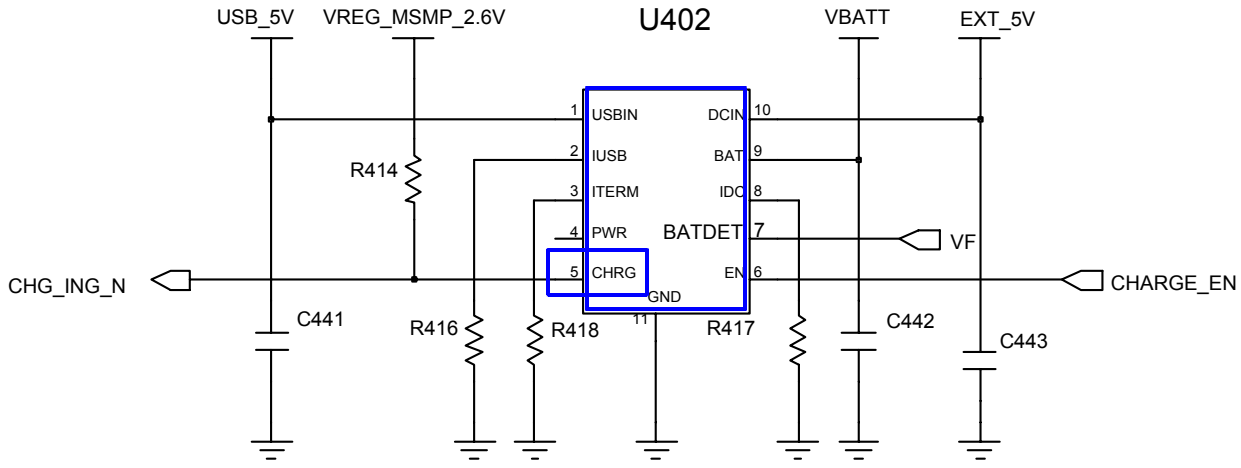
10-3. Charging Part





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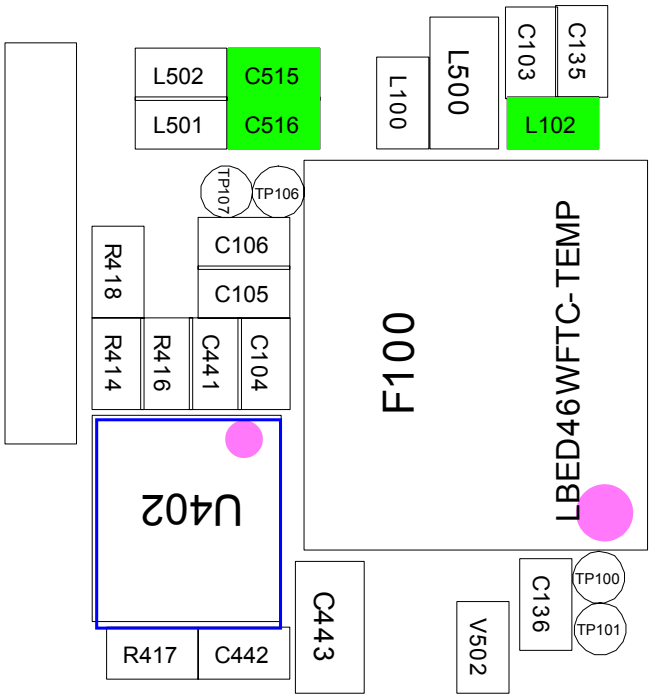

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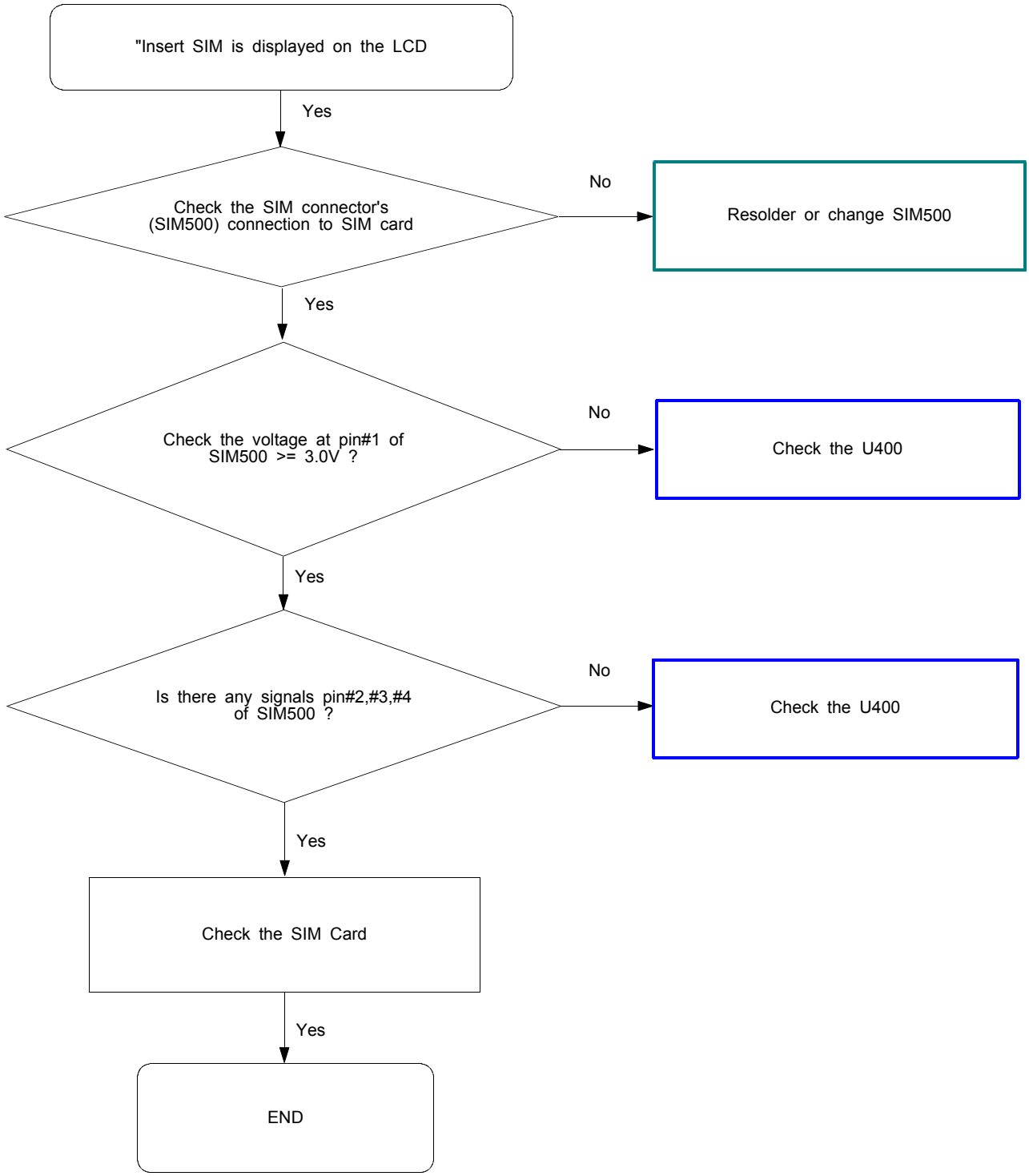
10-4. Sim Part



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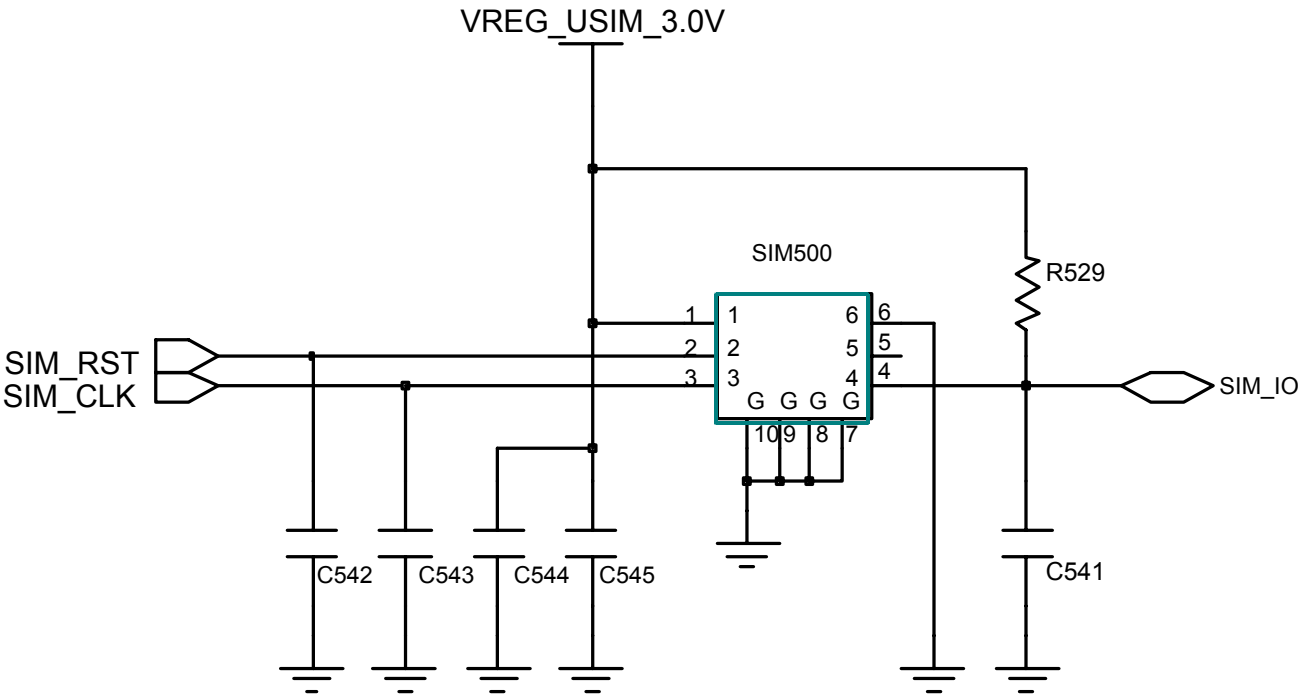

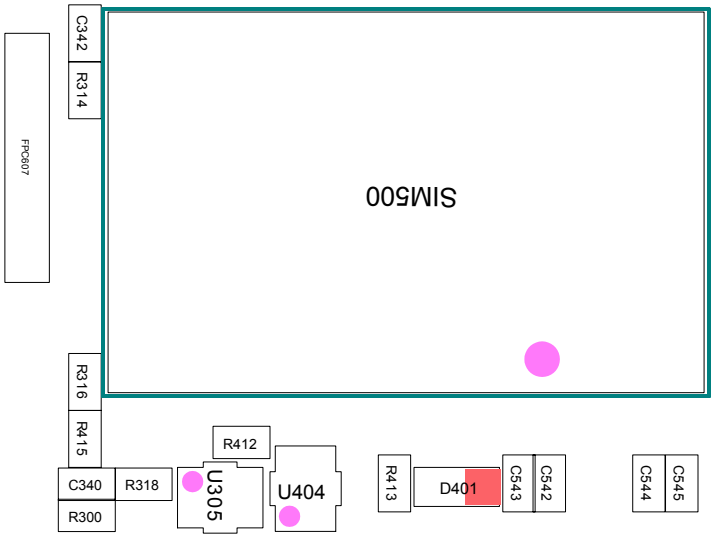

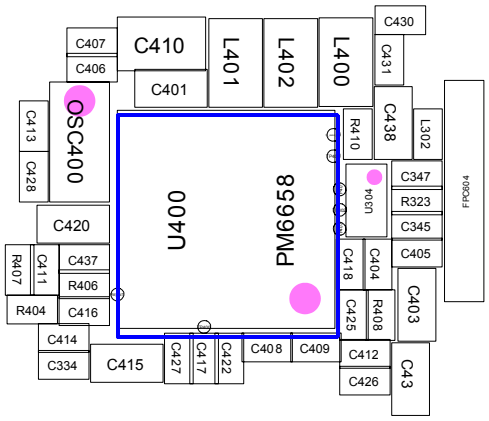

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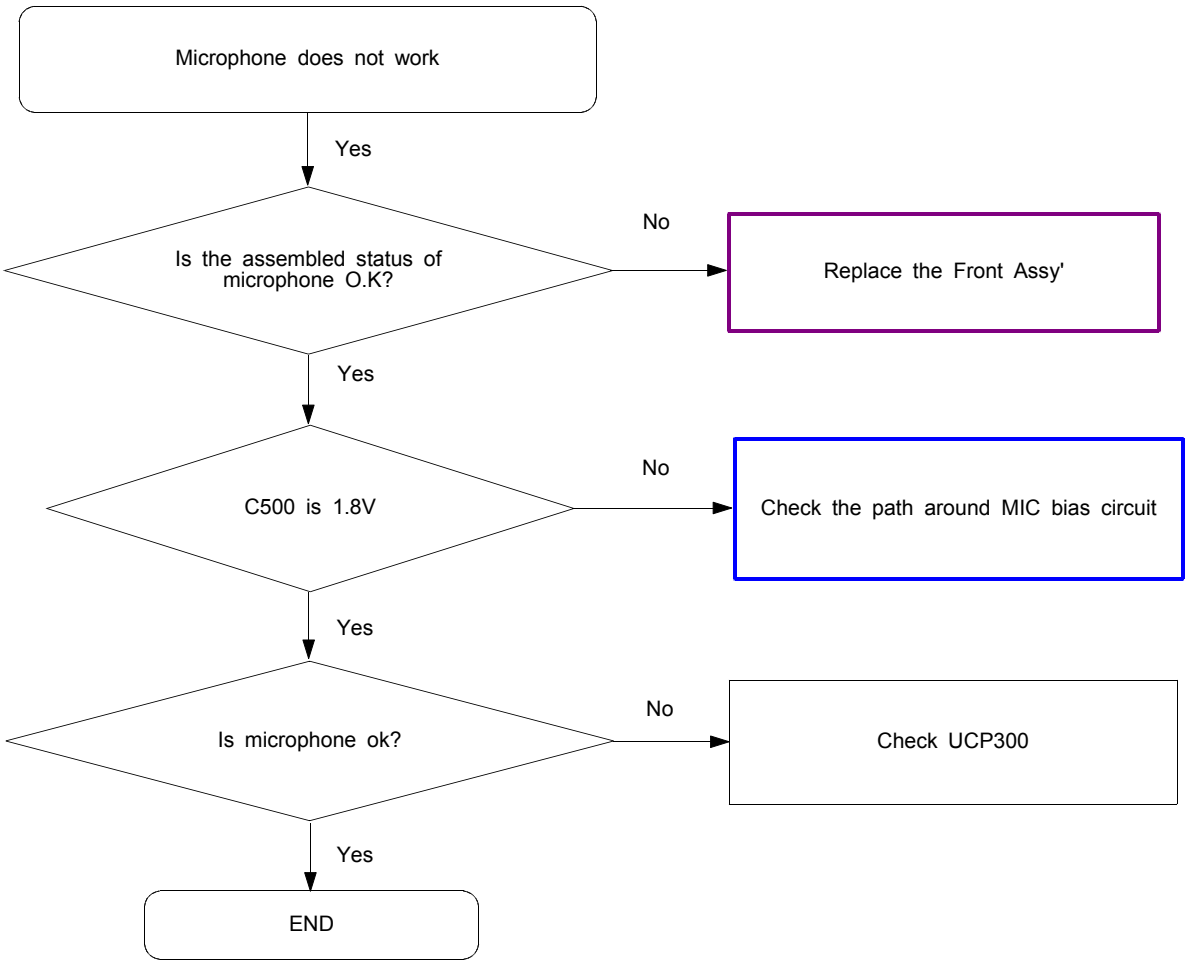
10-5. Microphone Part



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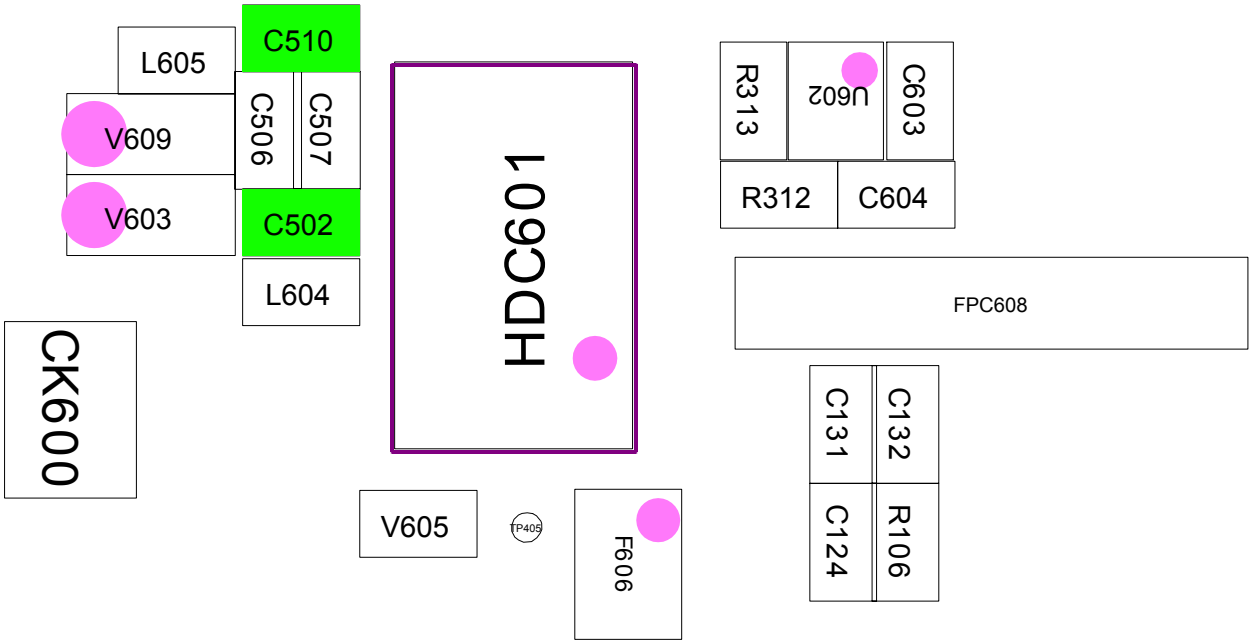

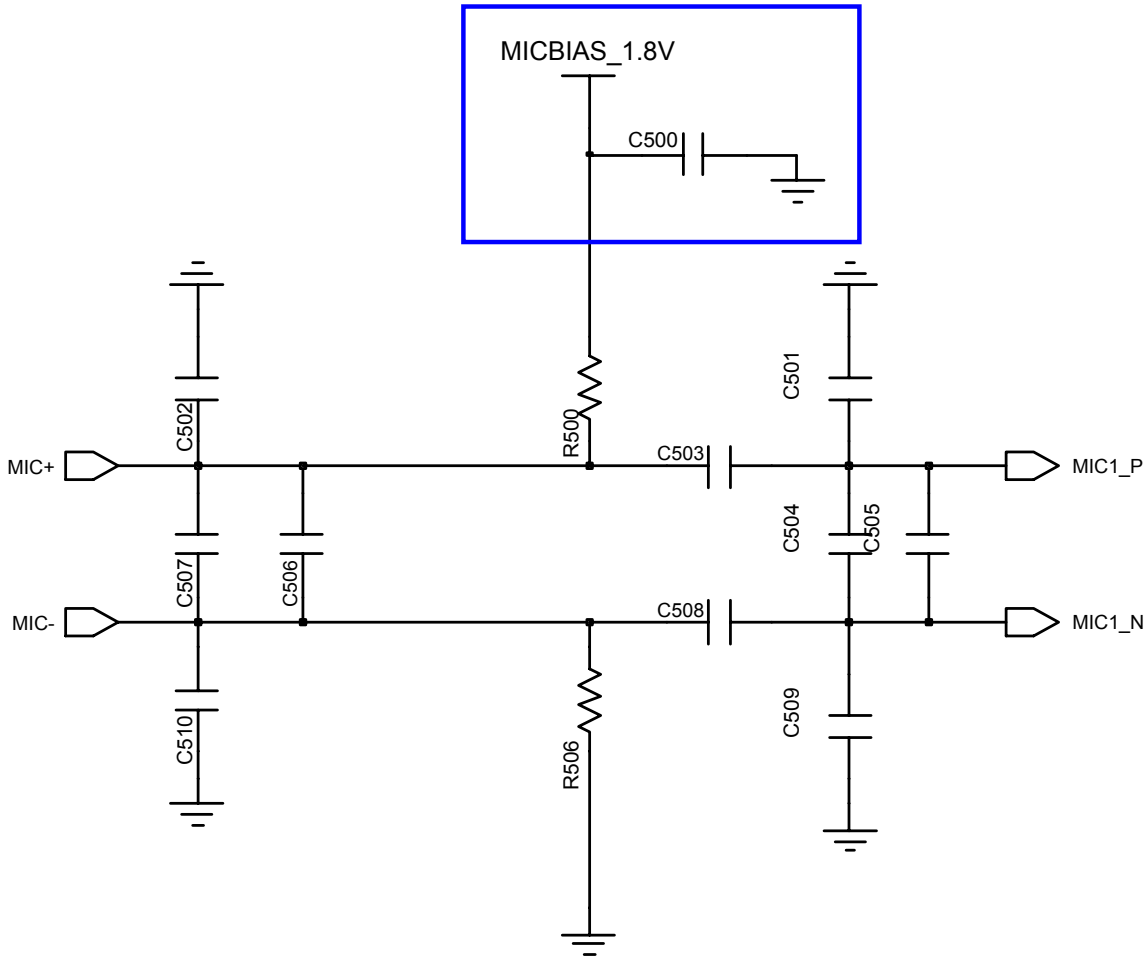

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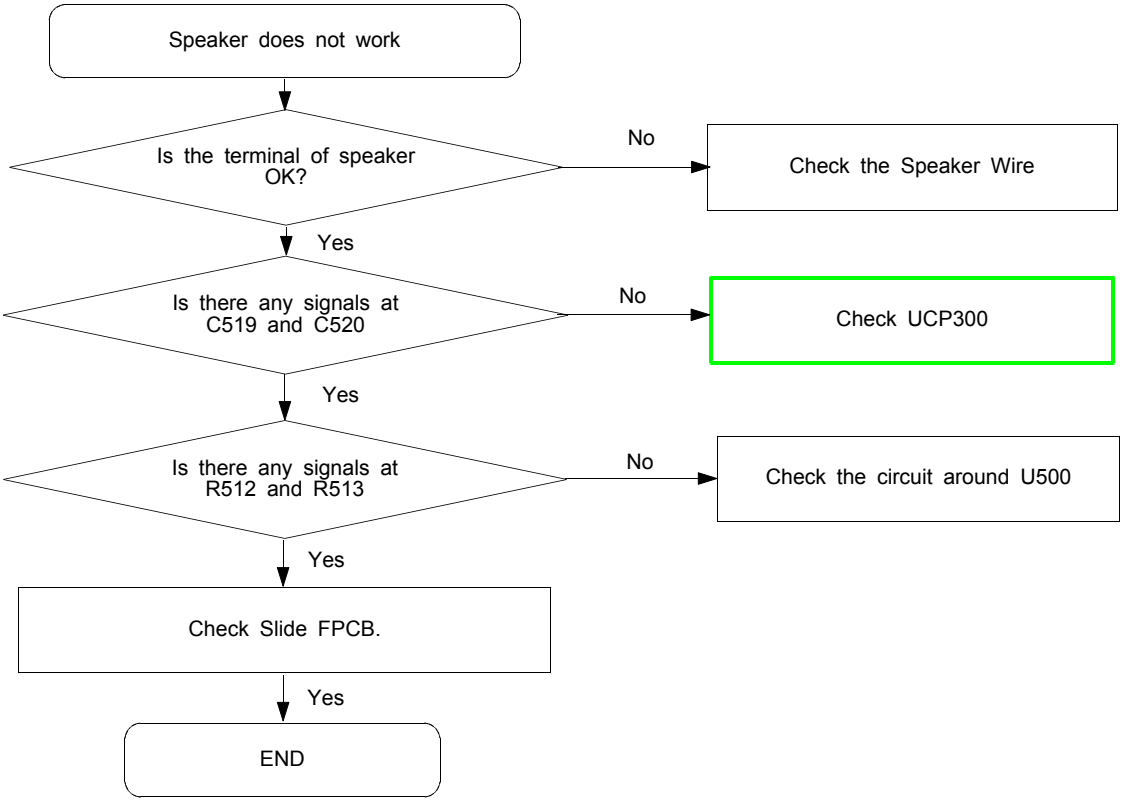
10-6. Speaker Part



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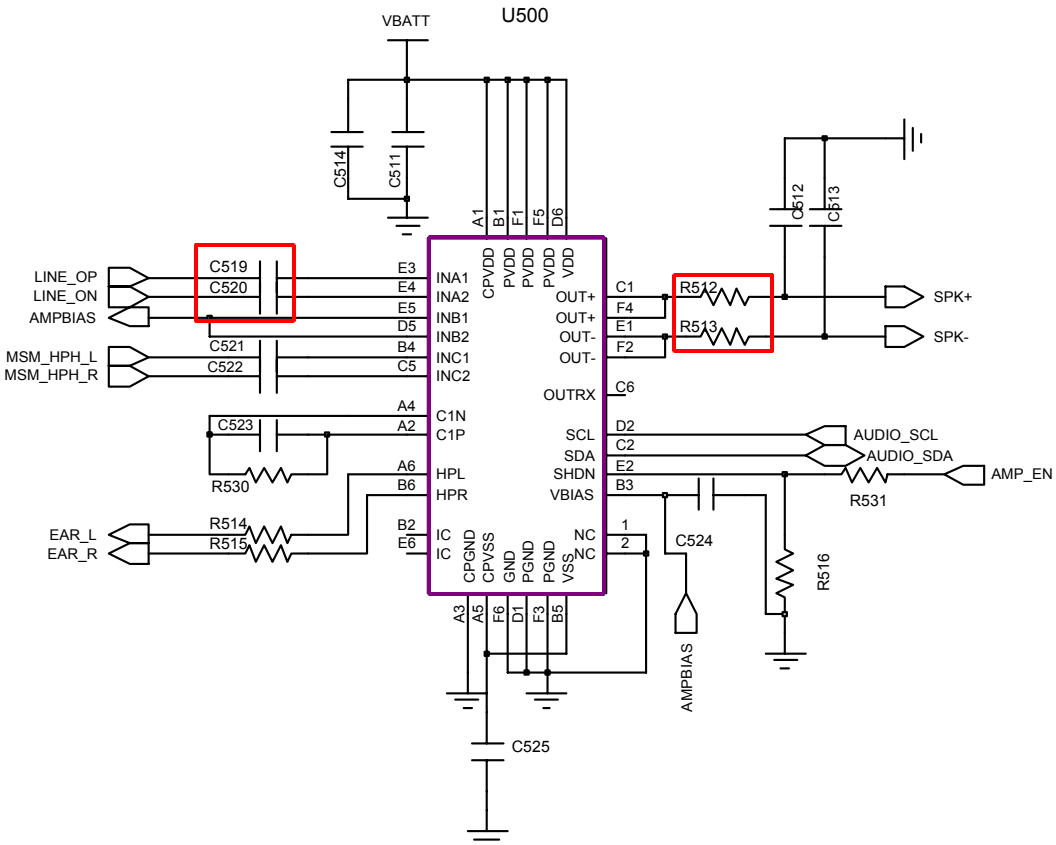

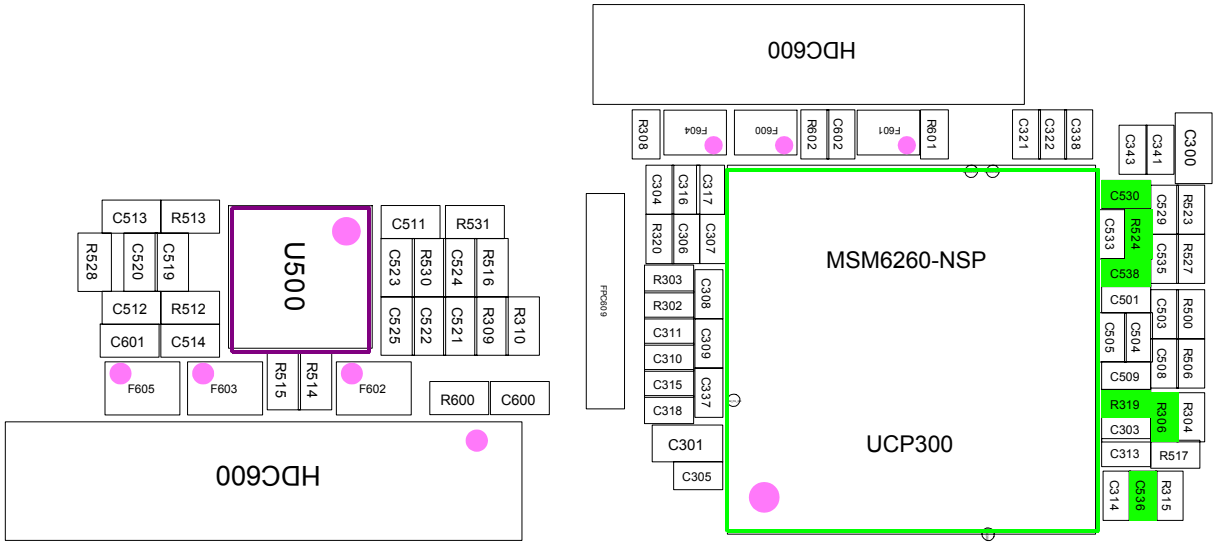

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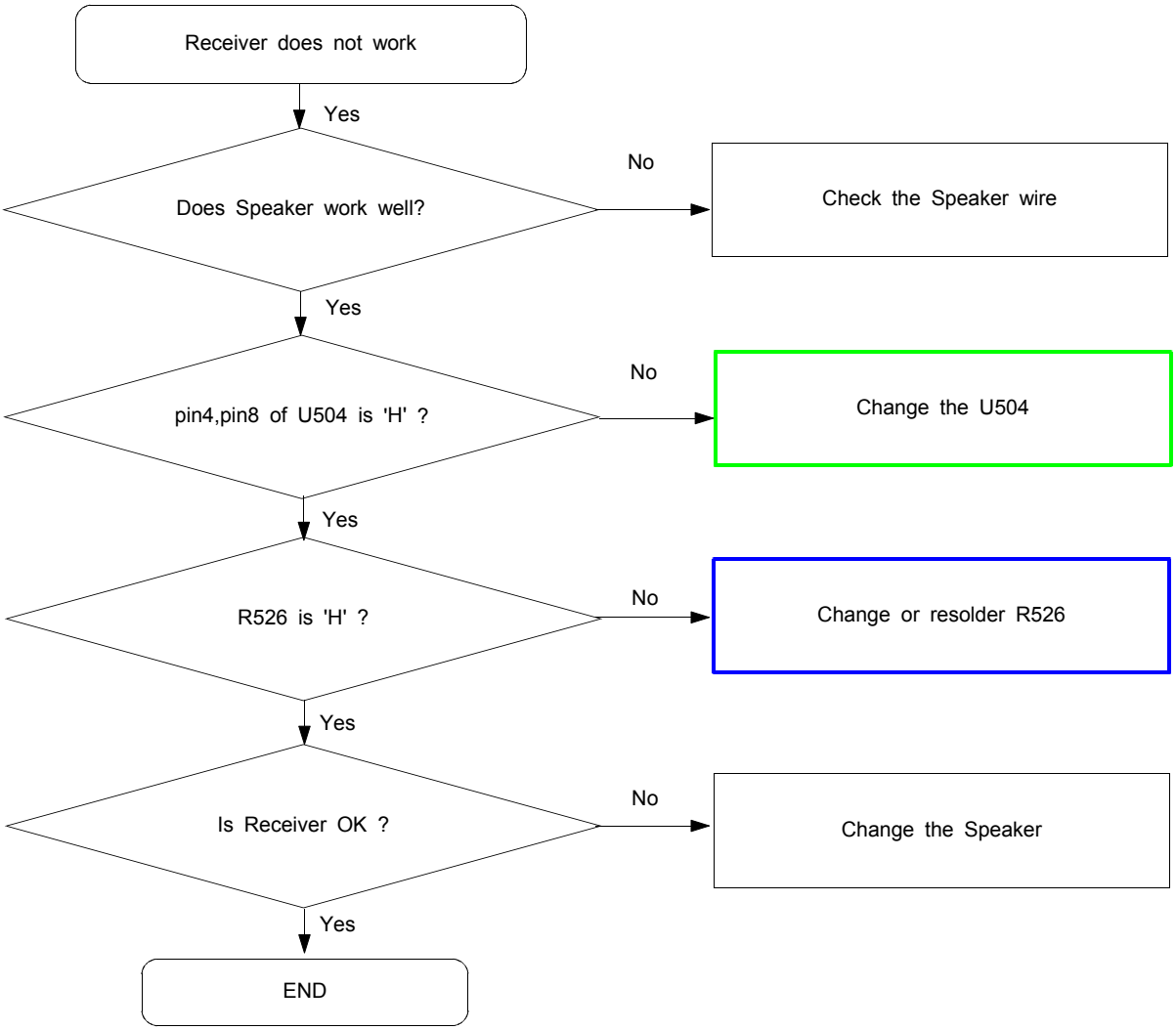
10-7. Receiver Part



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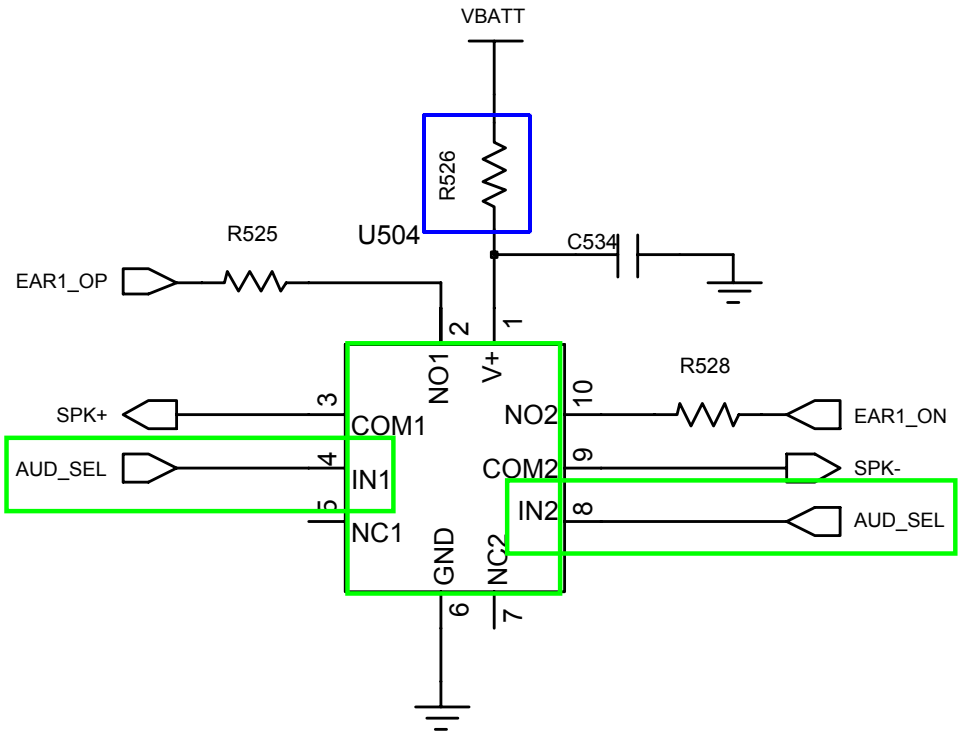

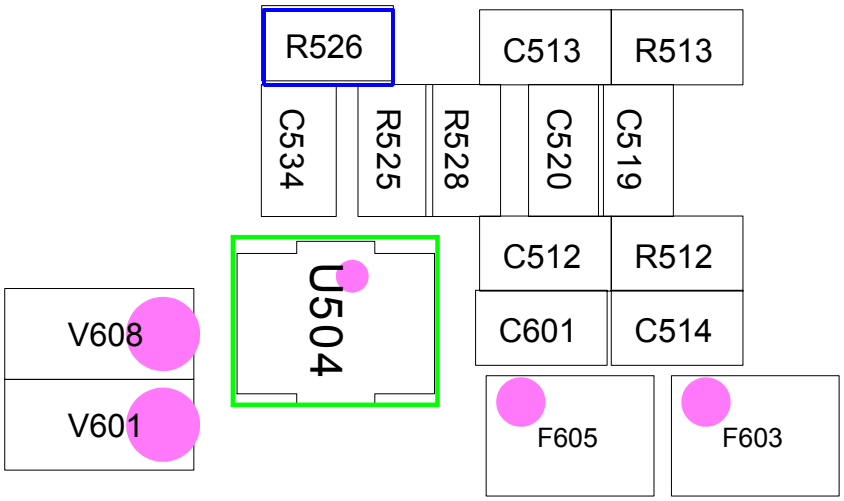

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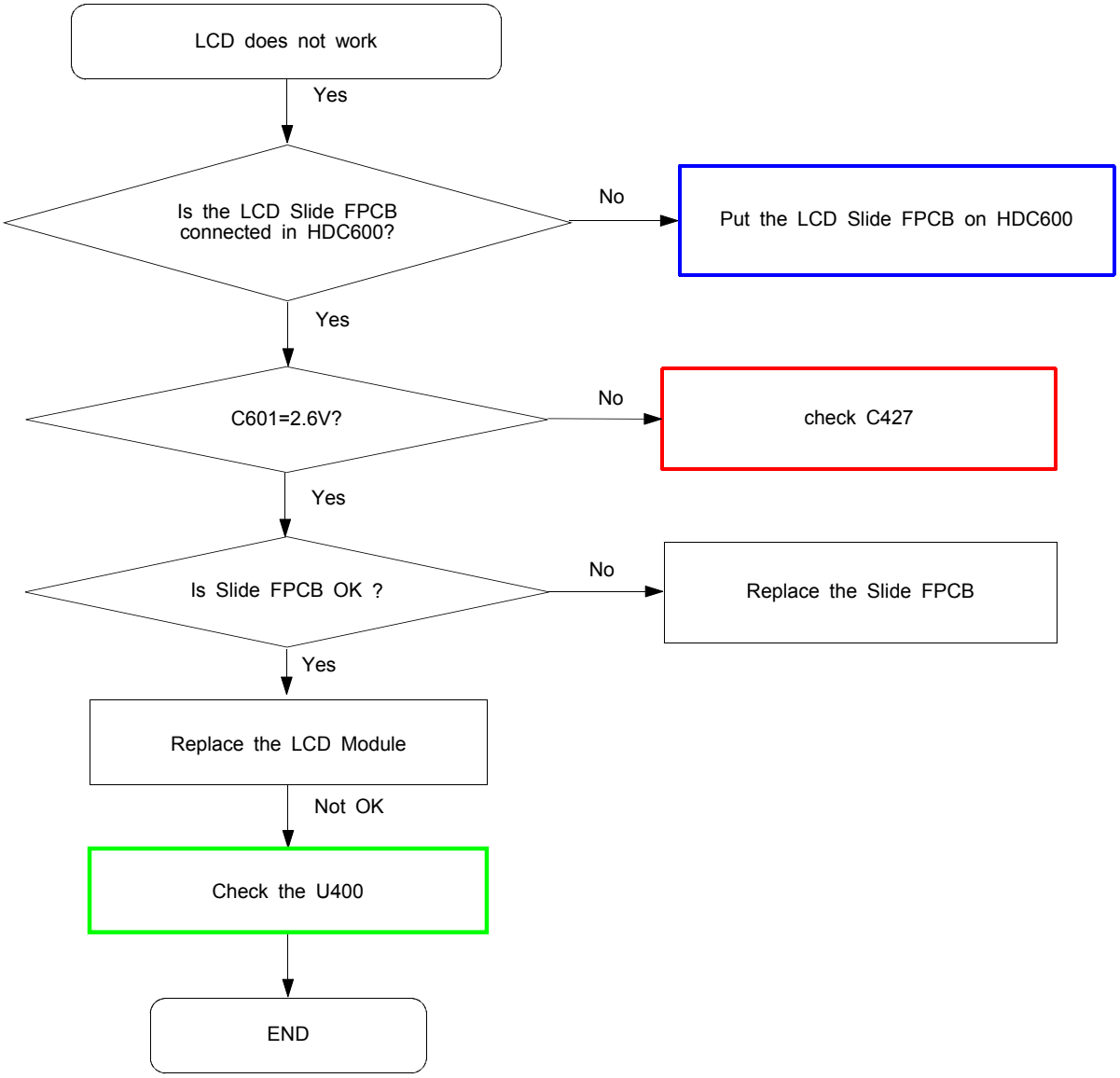
10-8. LCD part



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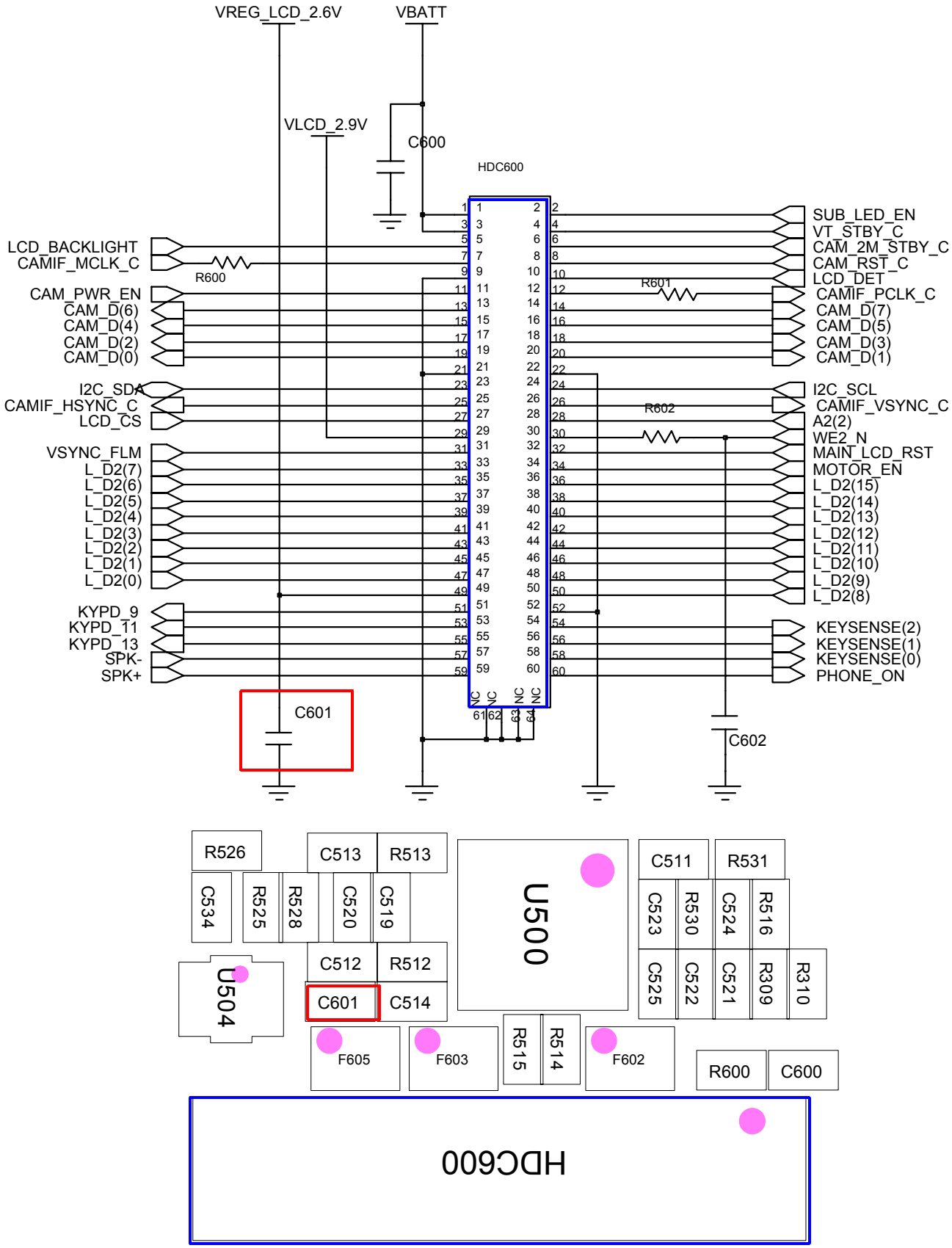

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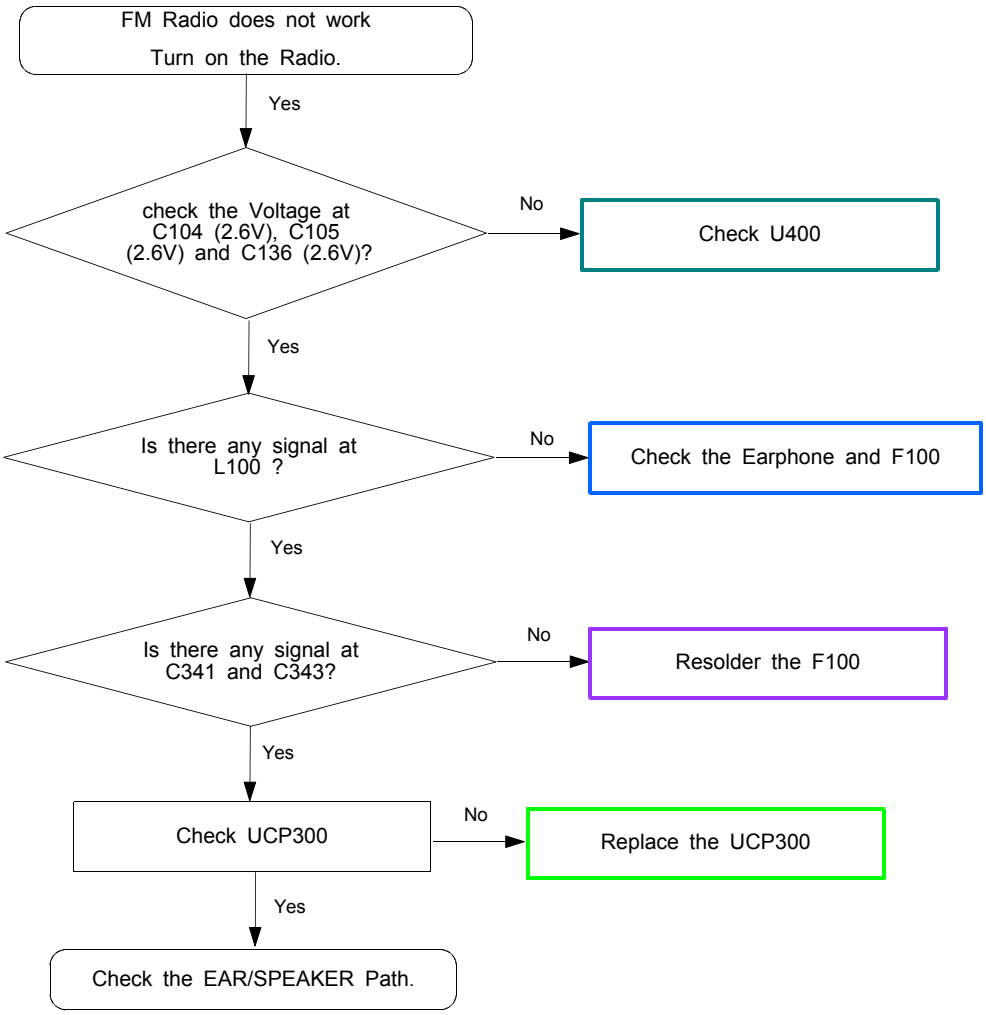
10-9. FM RADIO Part



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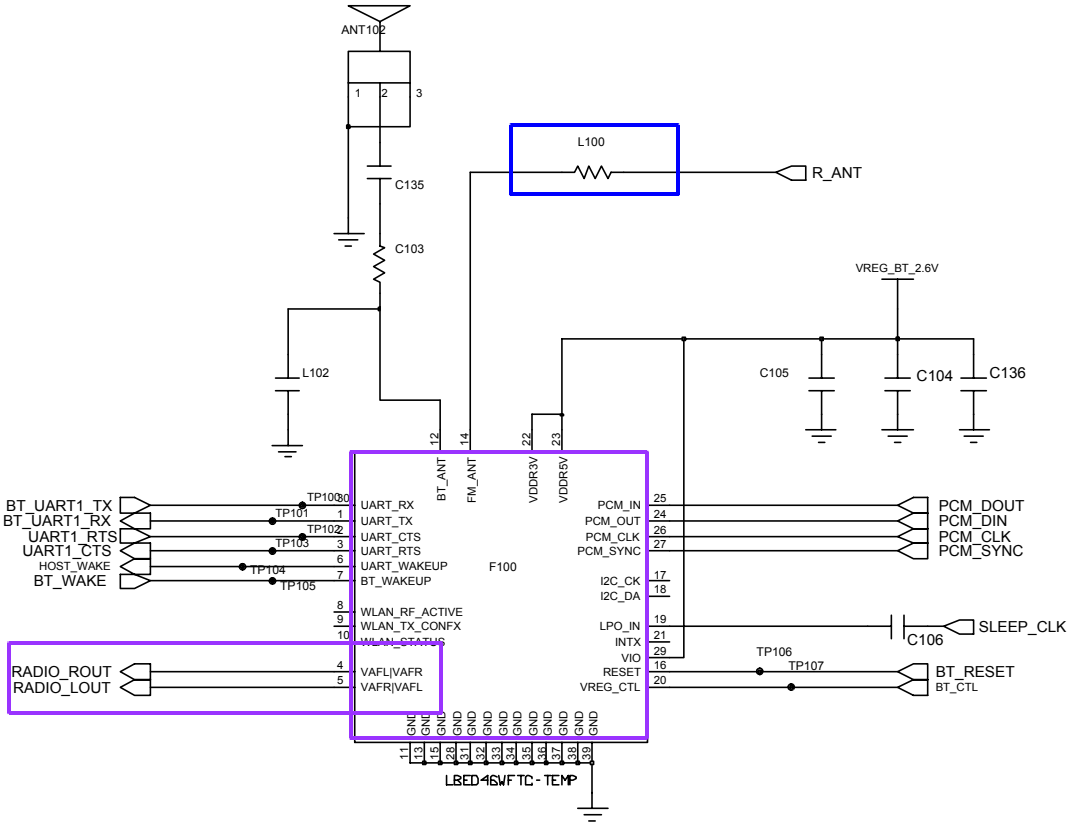

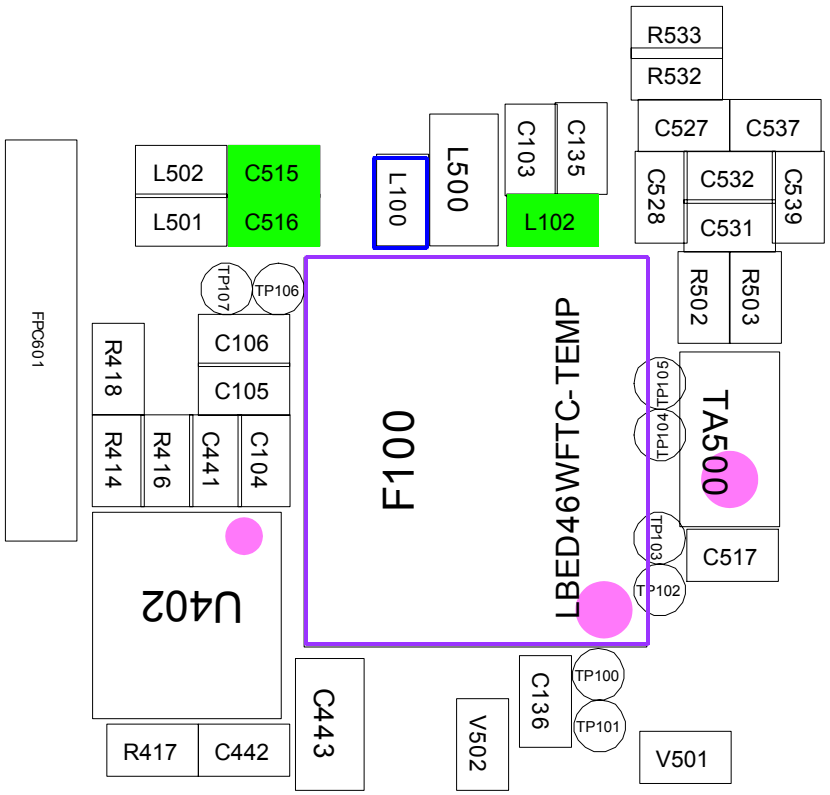

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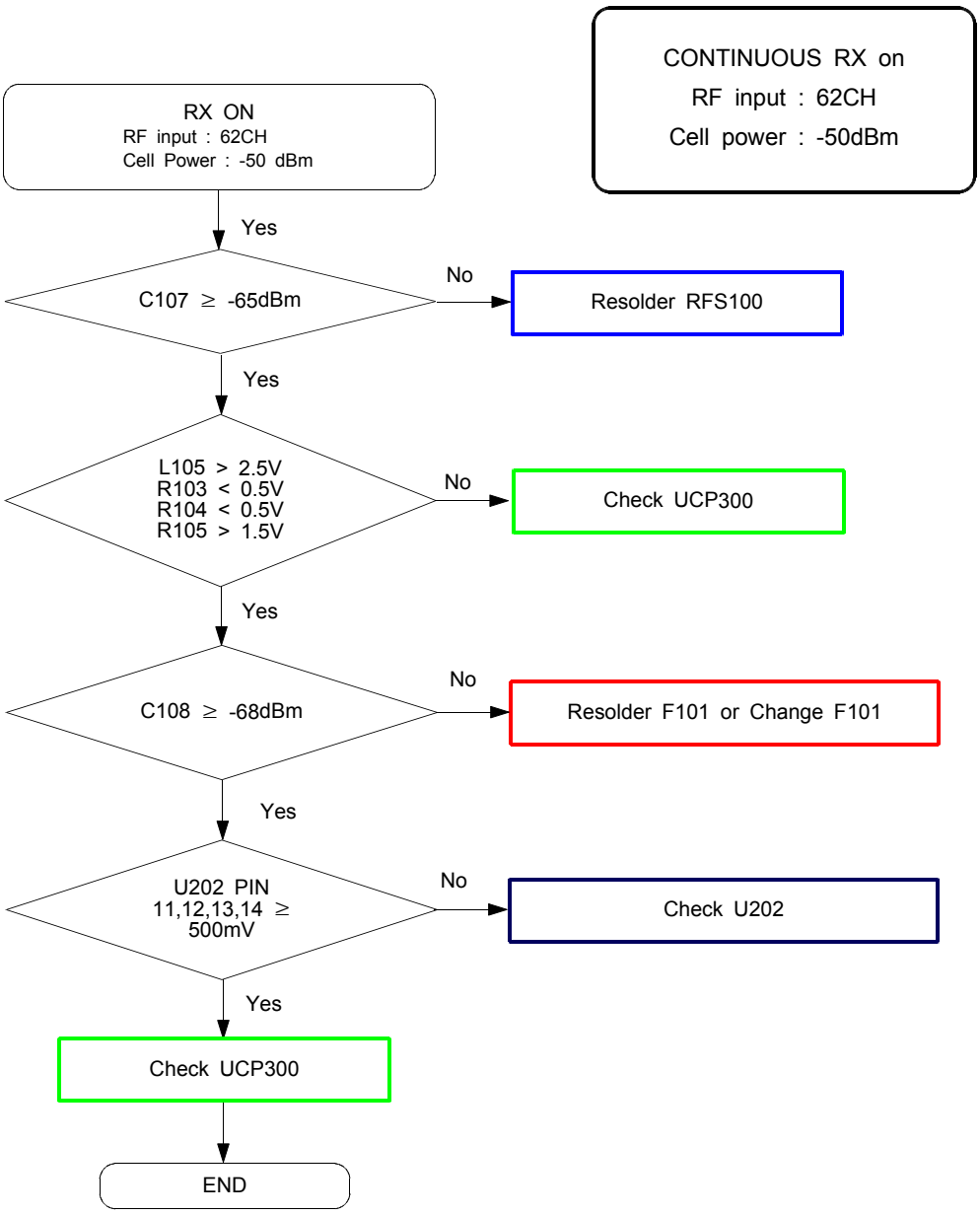
10-10. GSM Receiver



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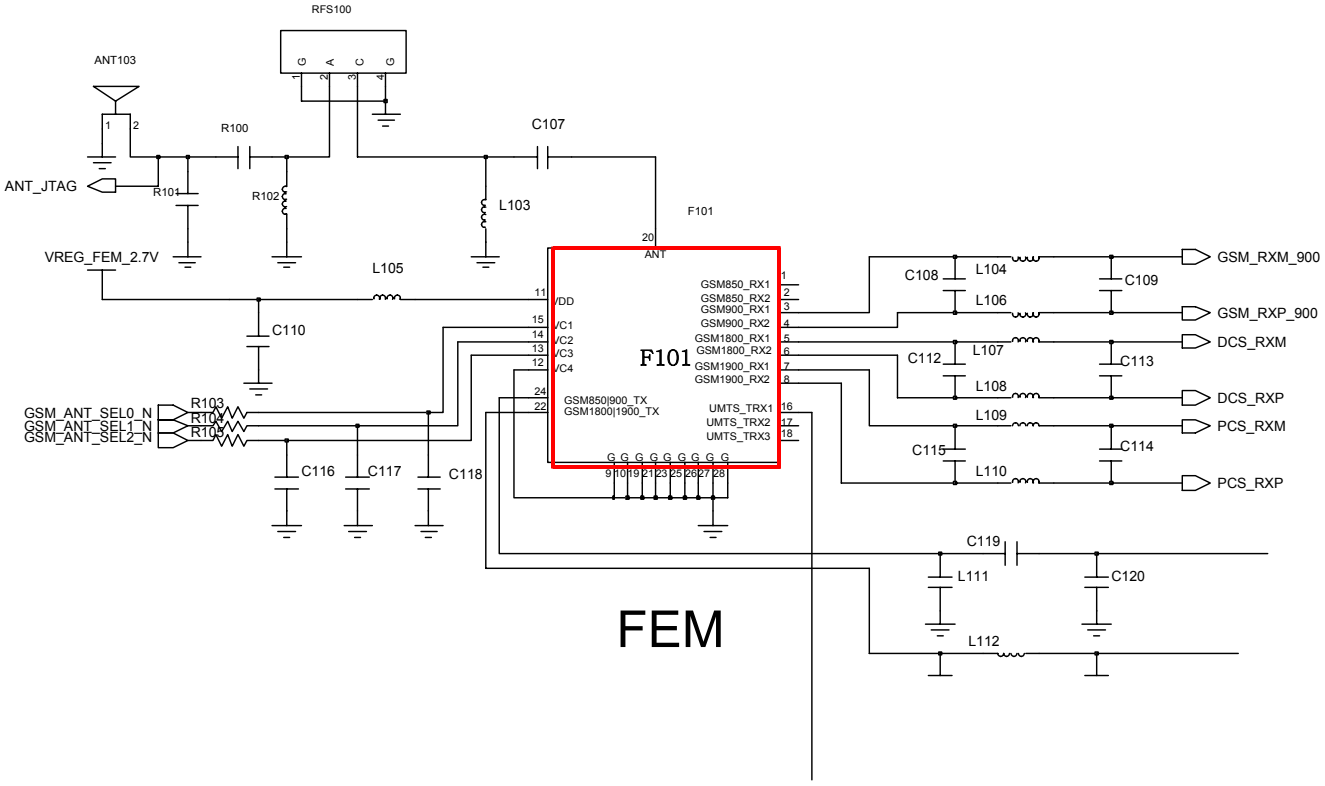

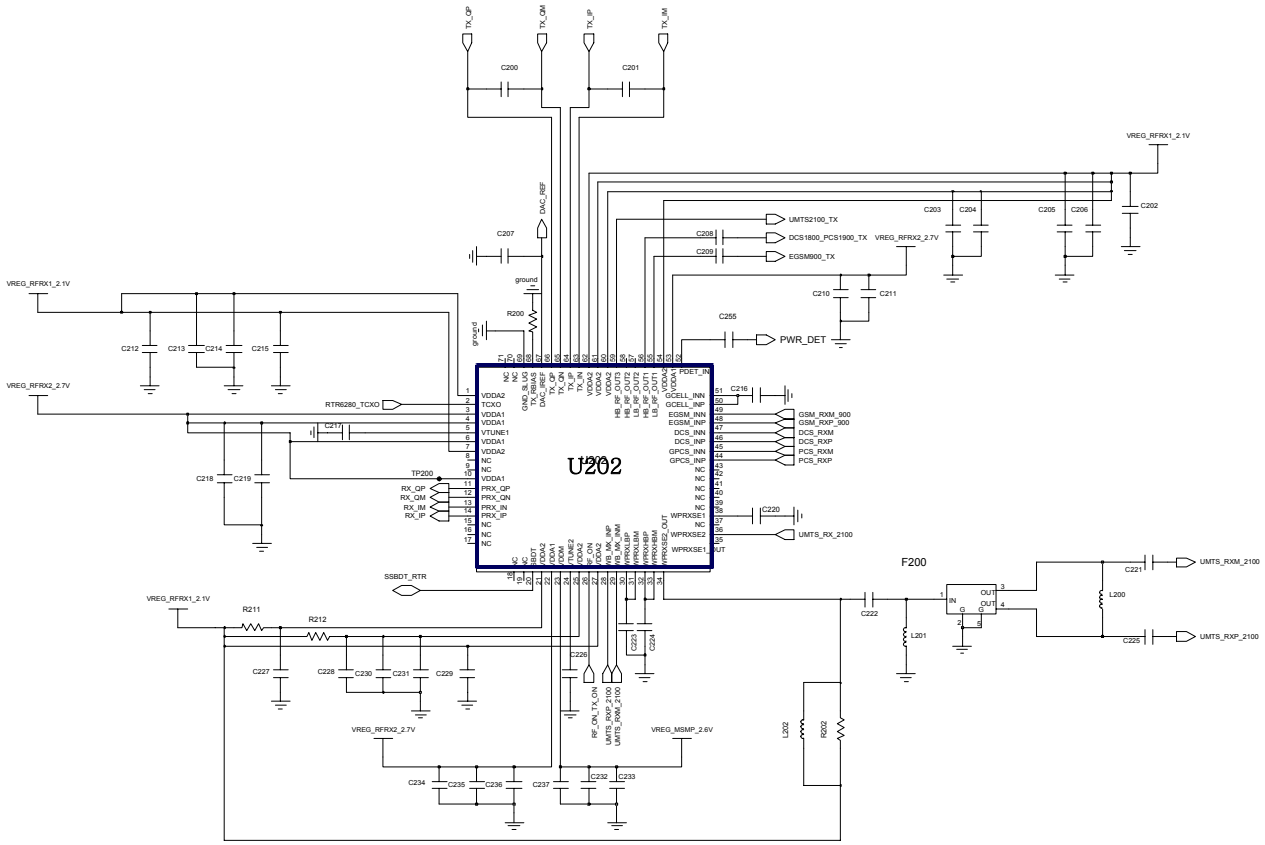

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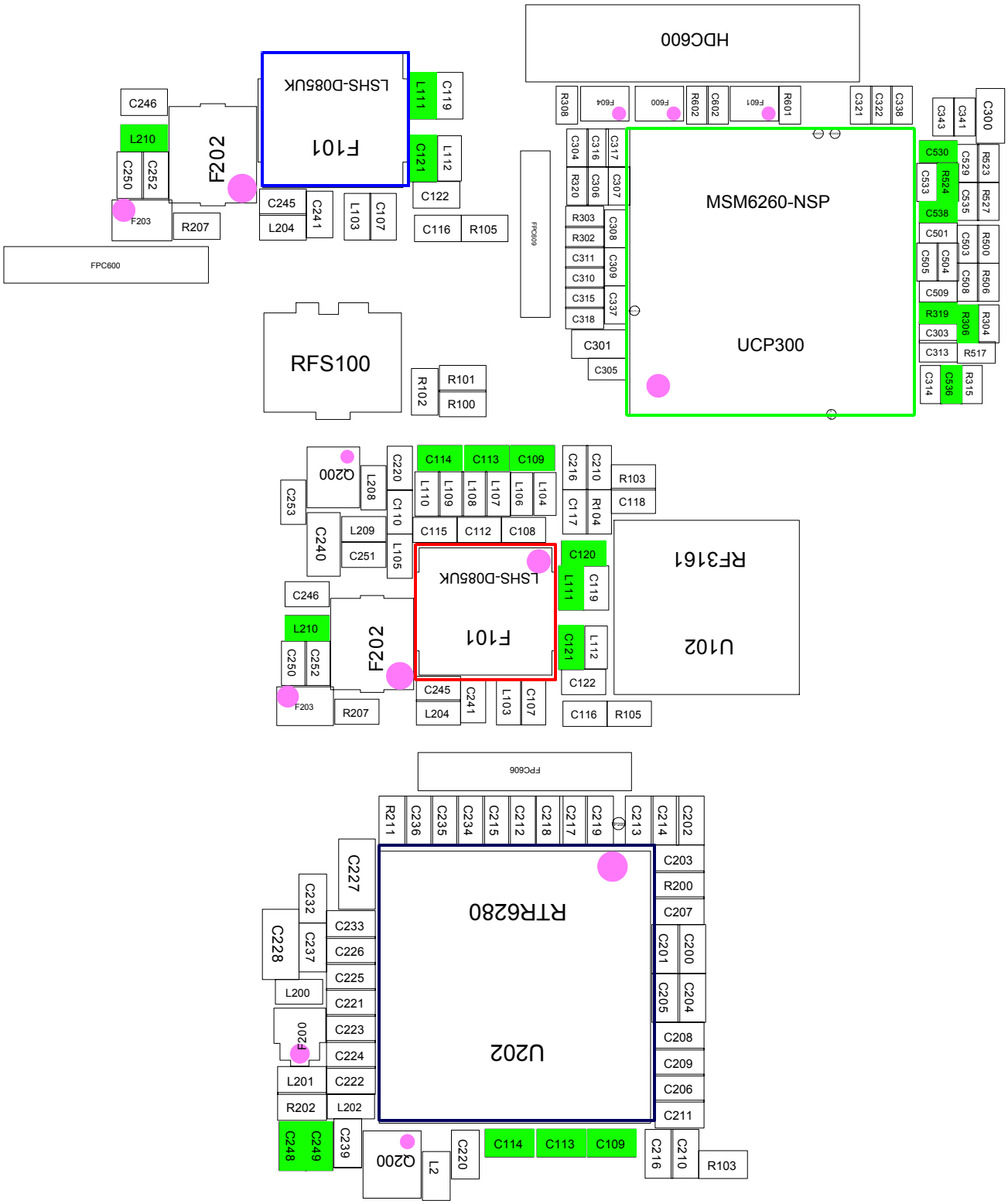

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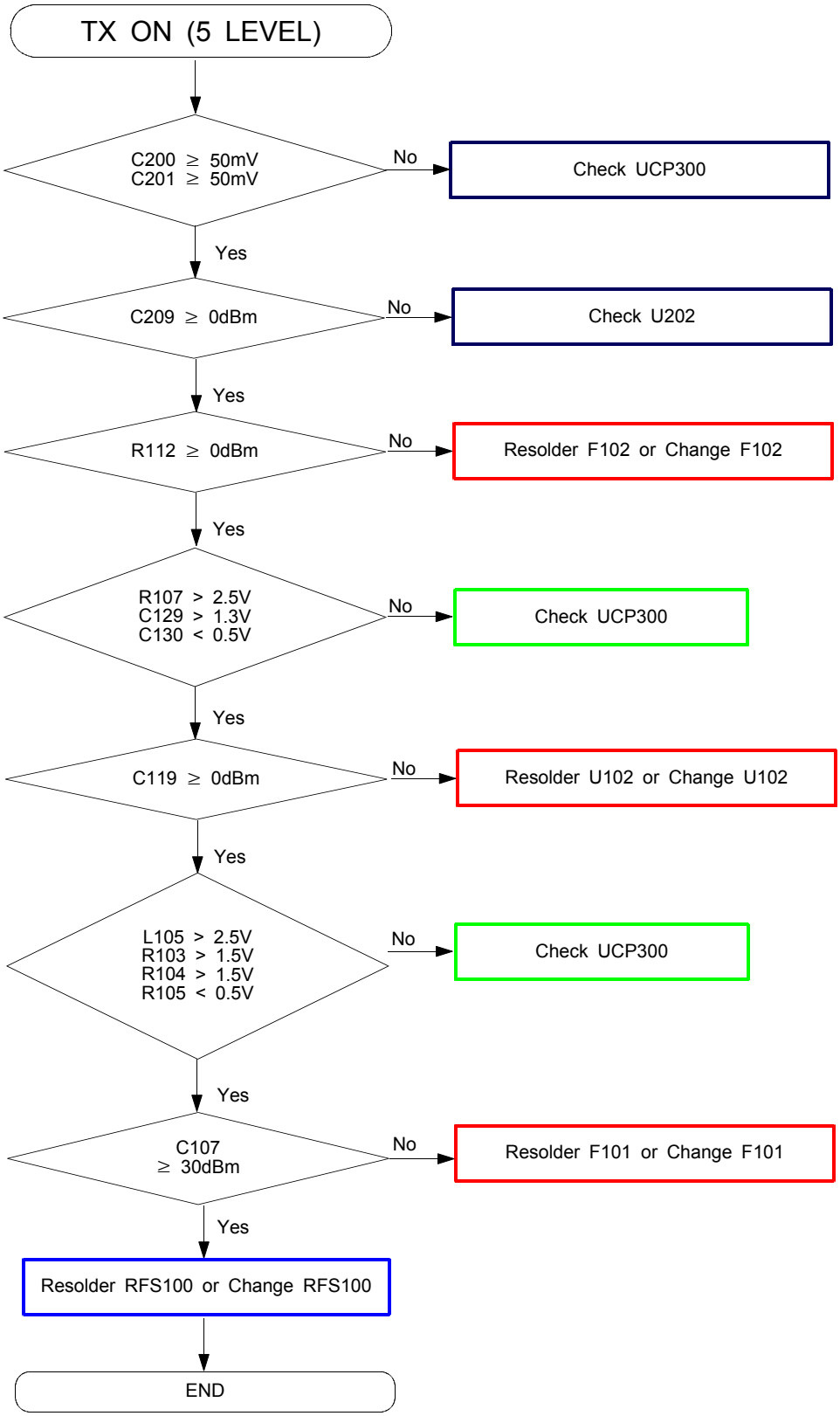
10-11 GSM Transmitter



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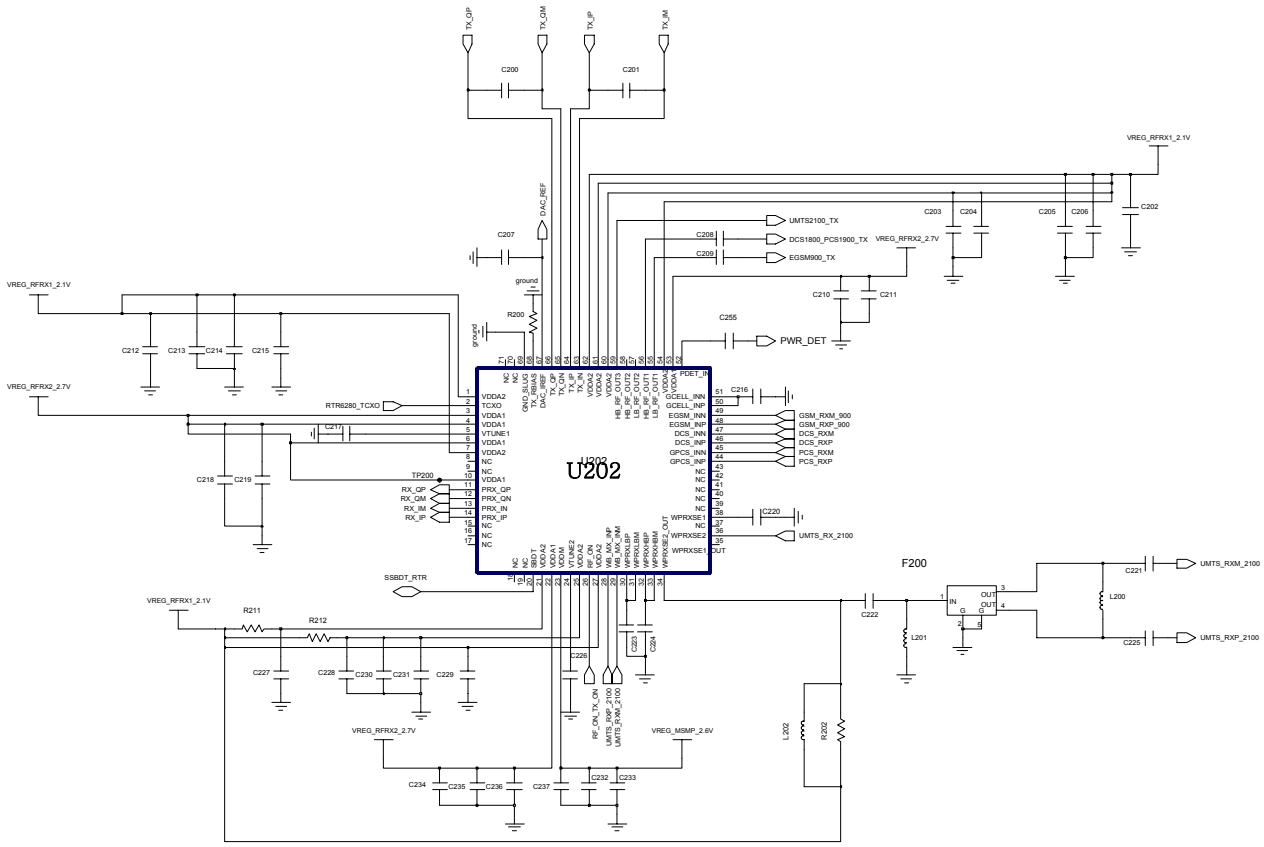
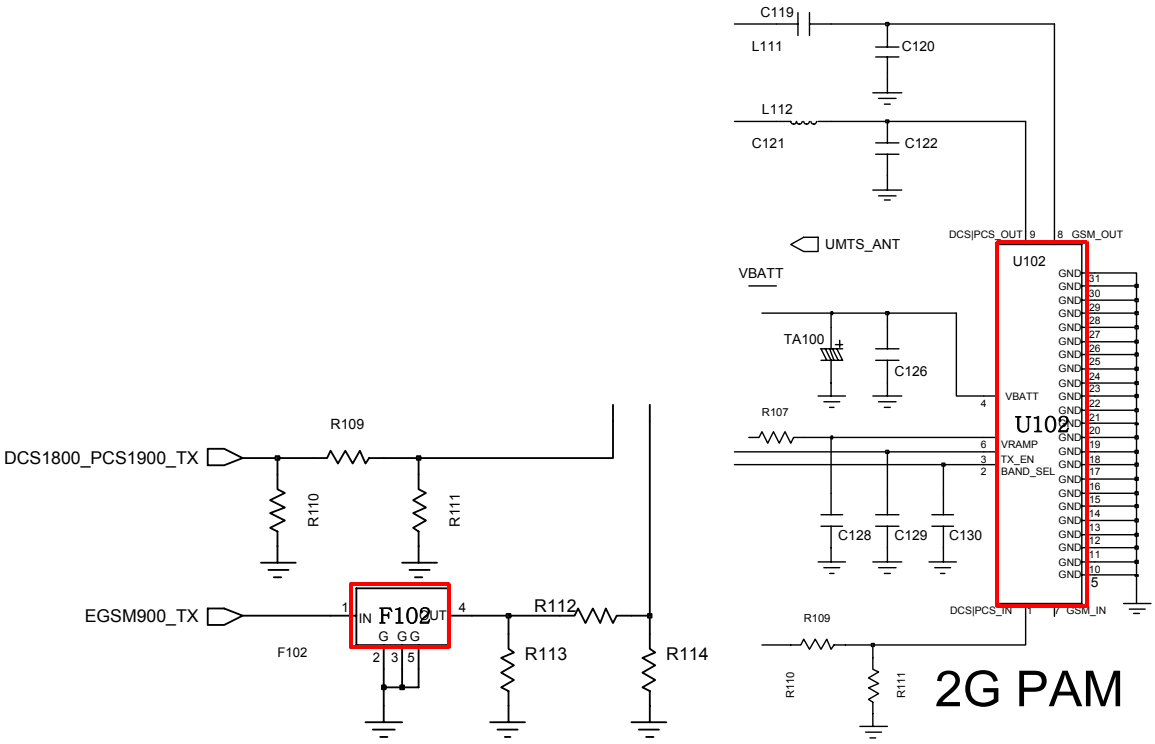


RF TRANSCEIVER



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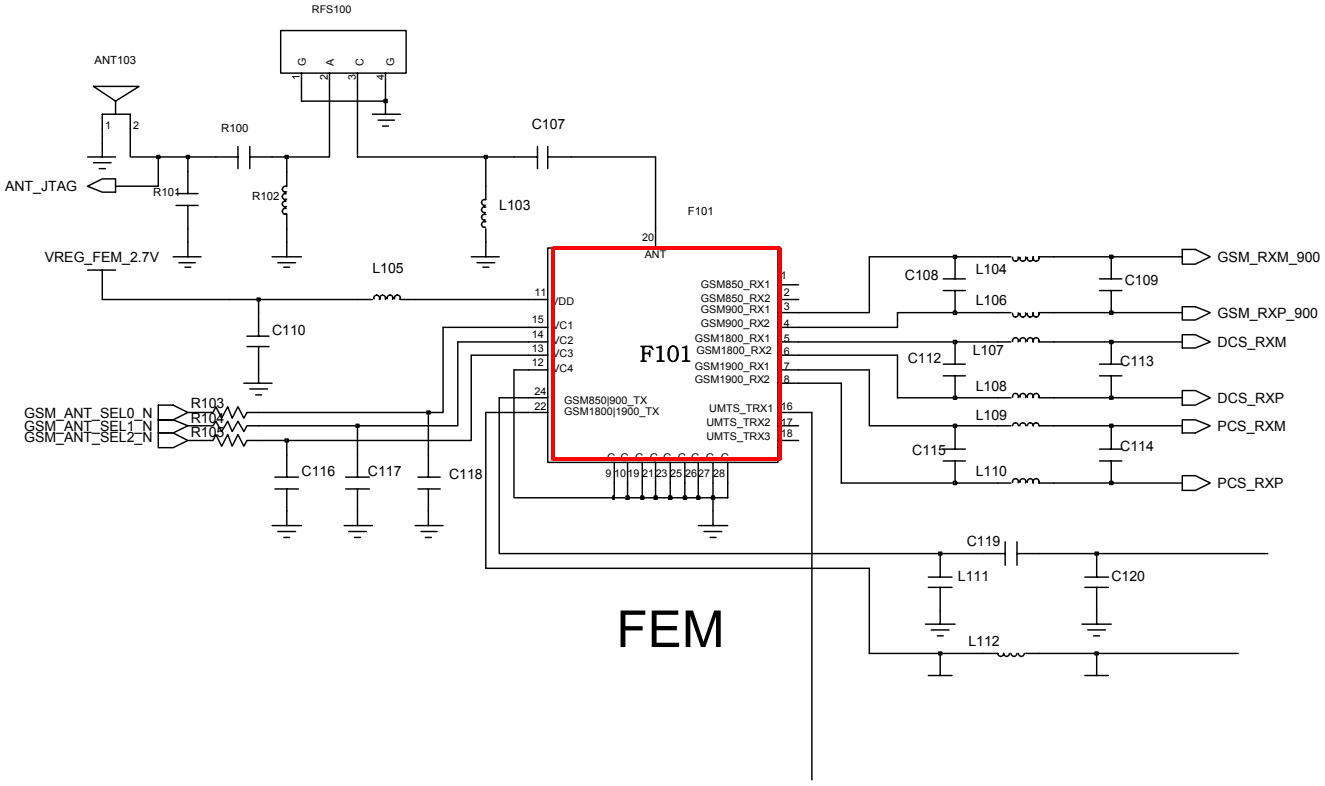

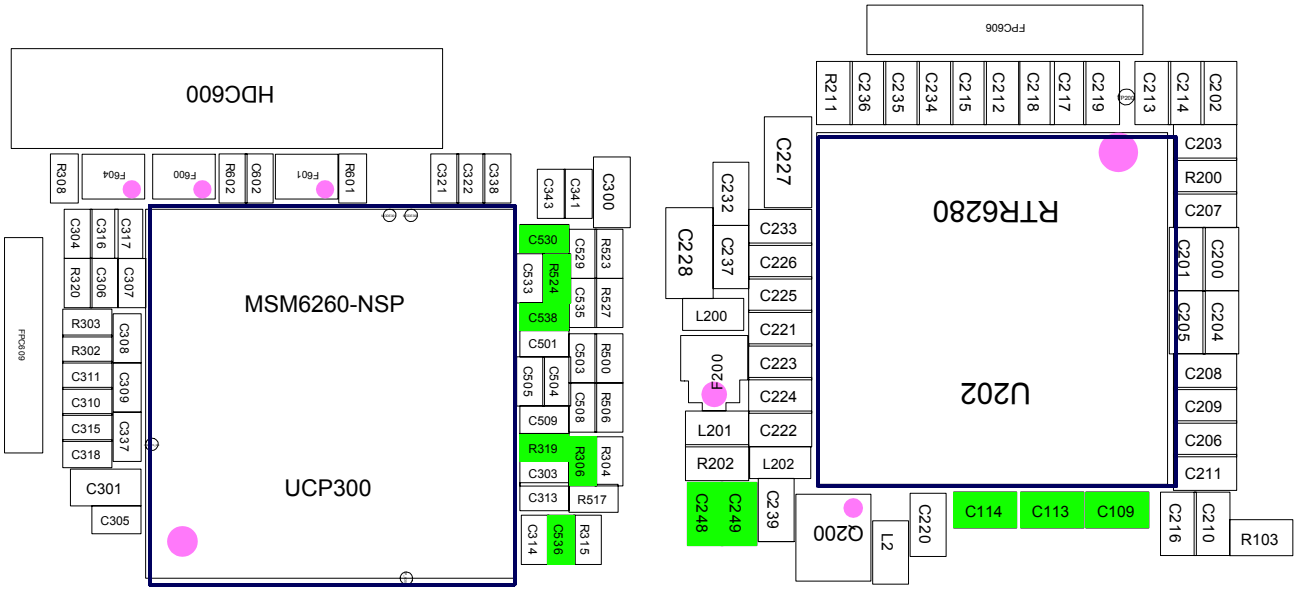

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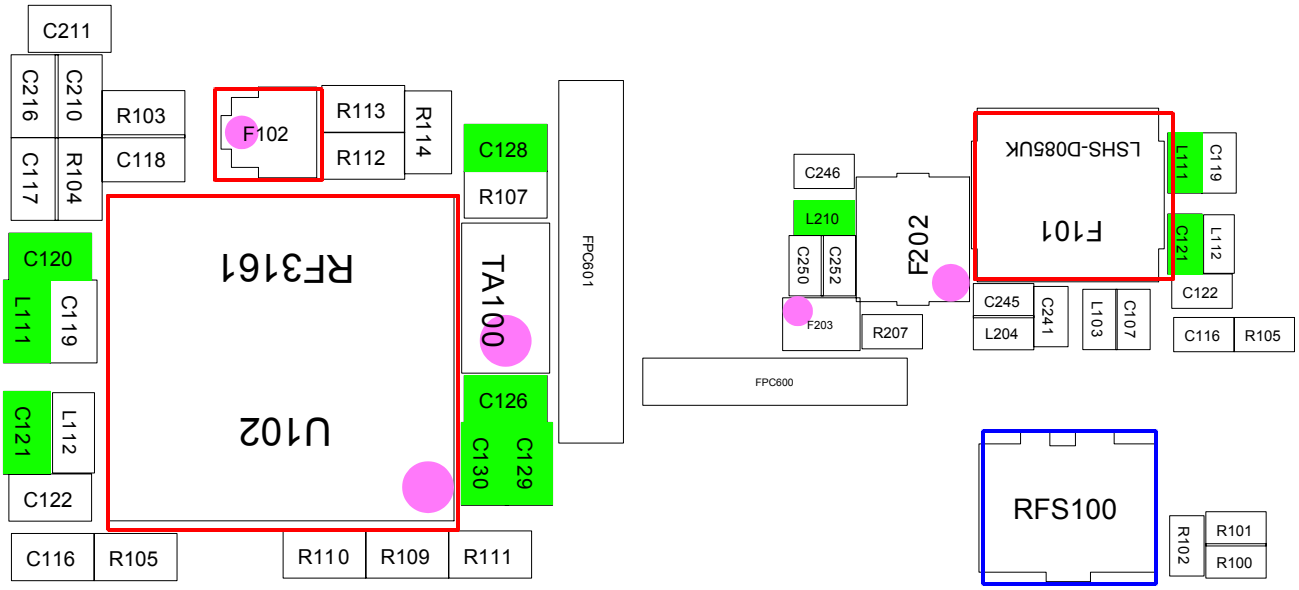

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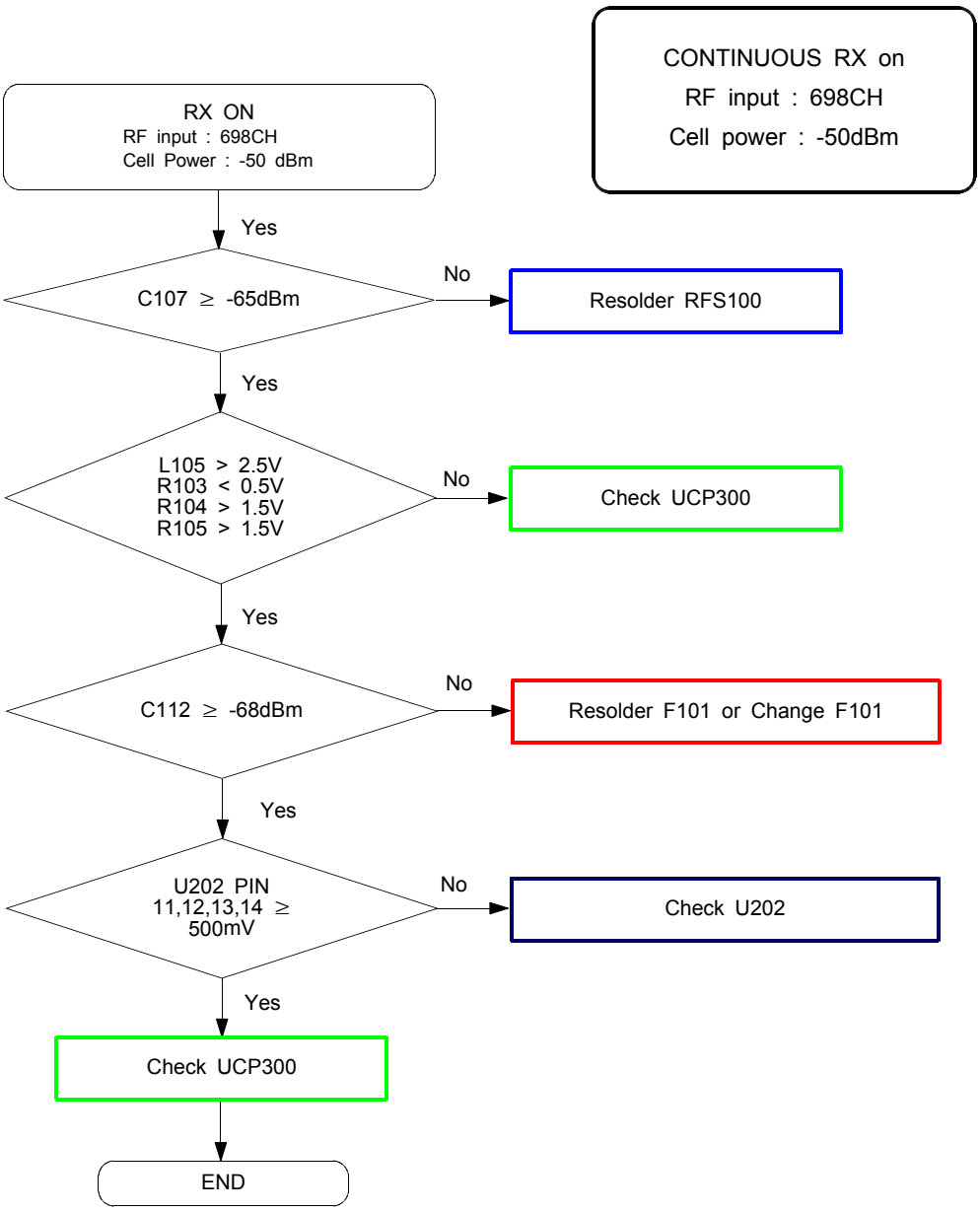
10-12. DCS Receiver



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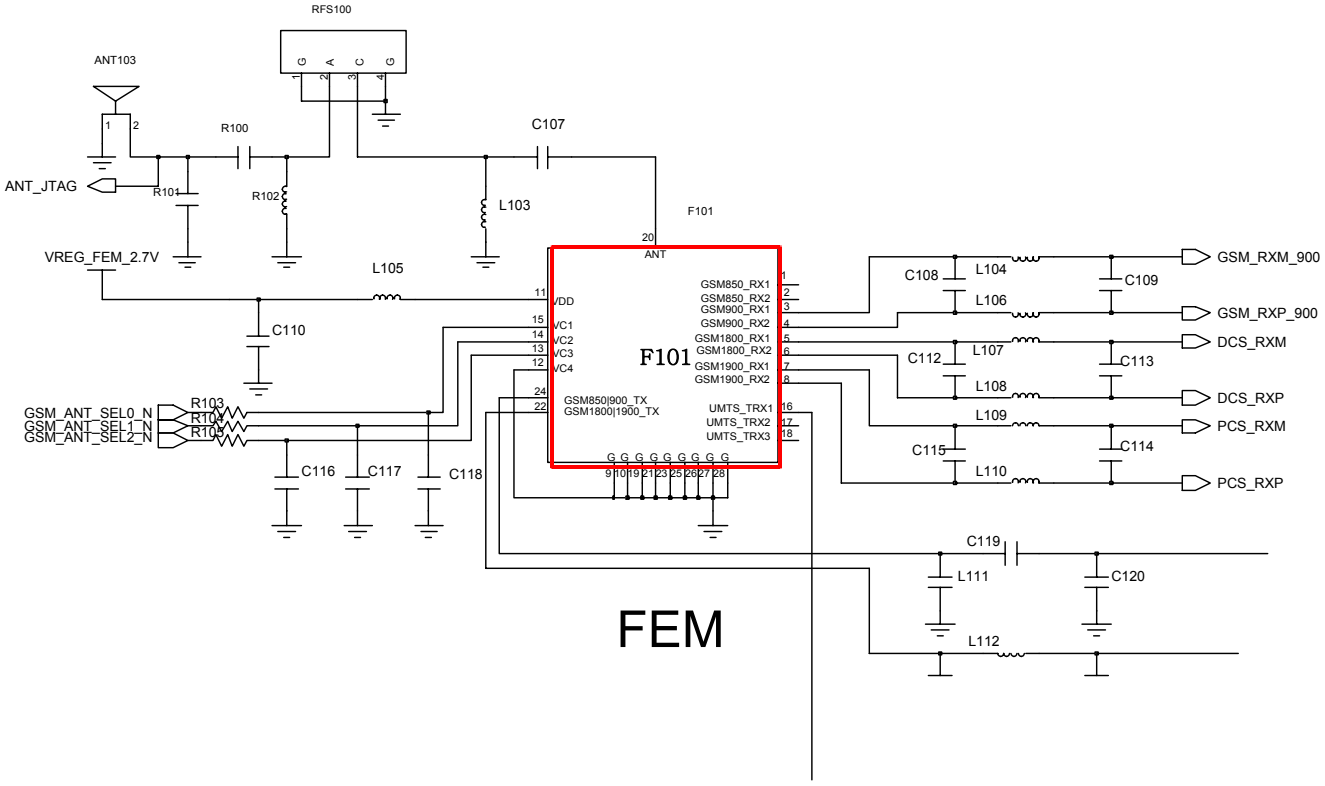

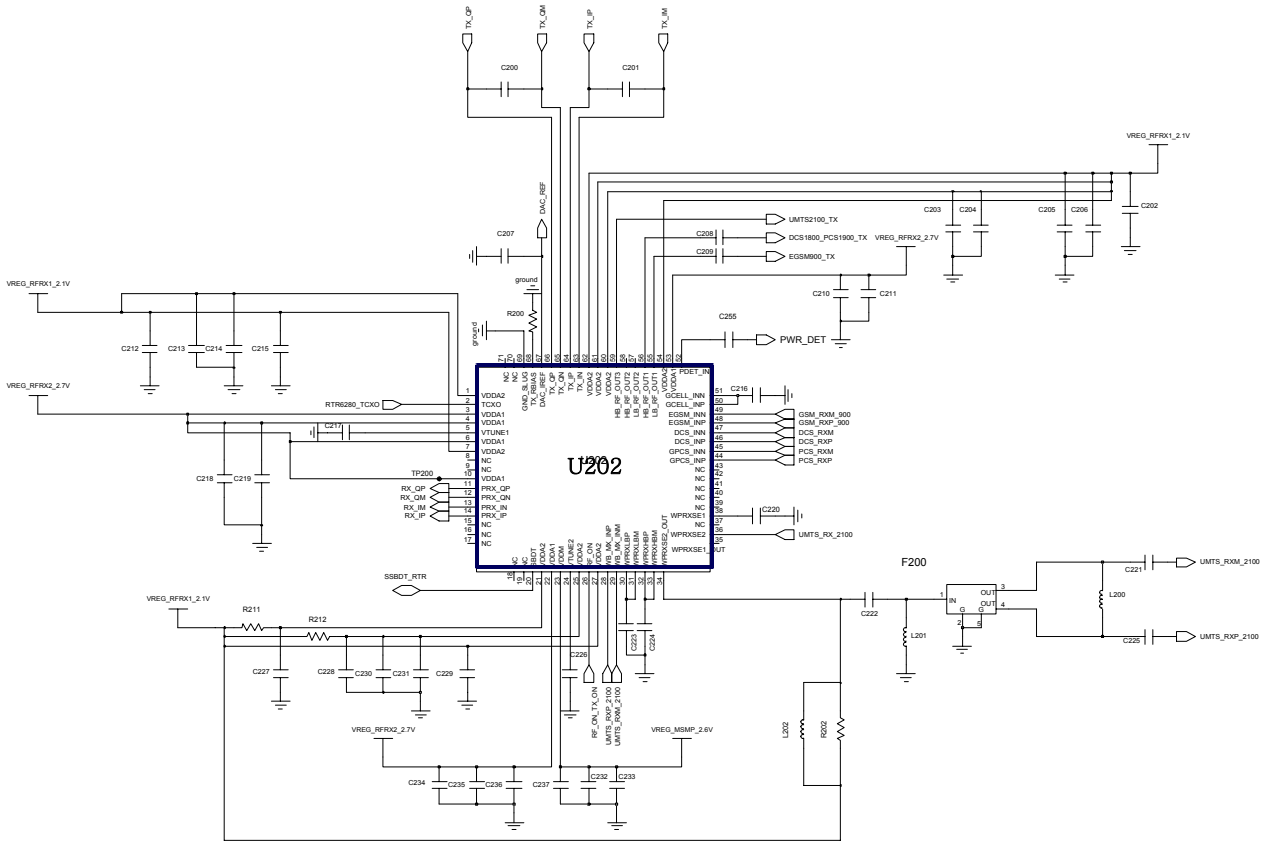

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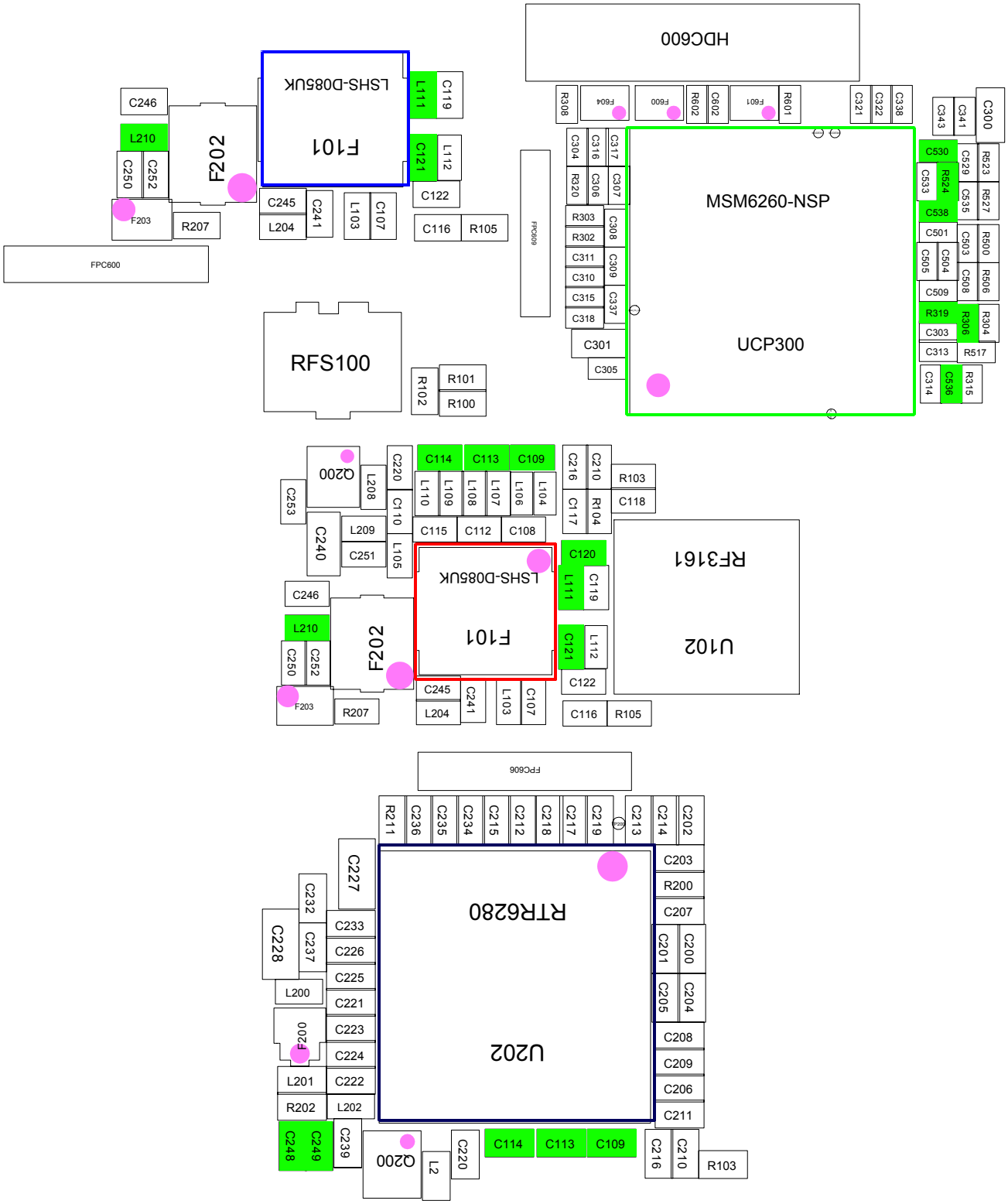

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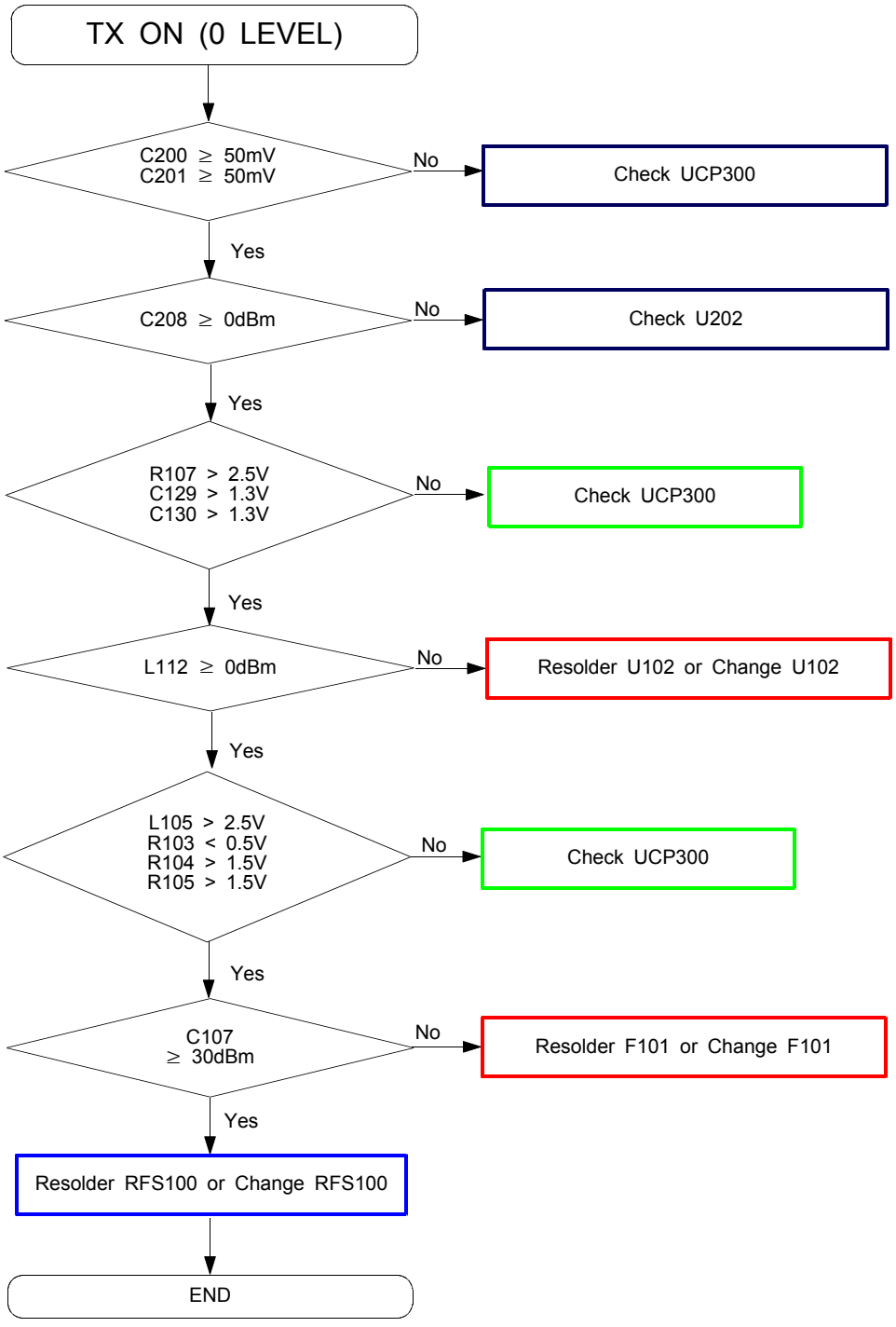
10-13. DCS Transmitter



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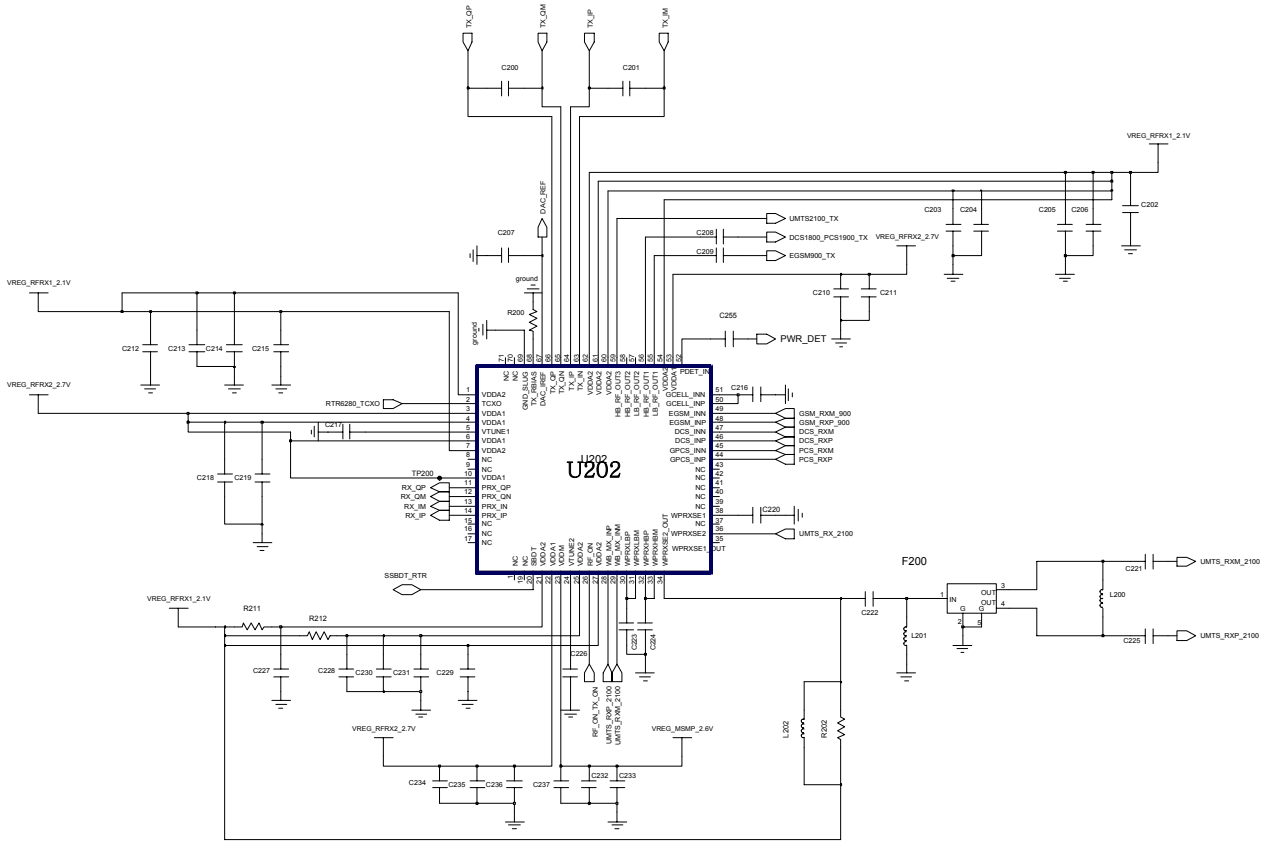

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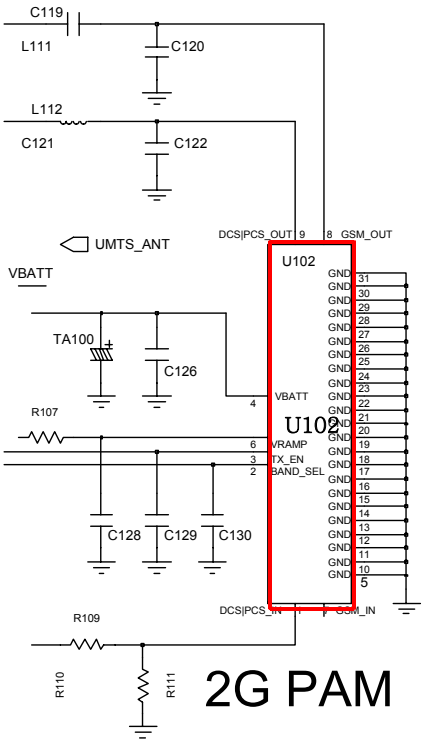

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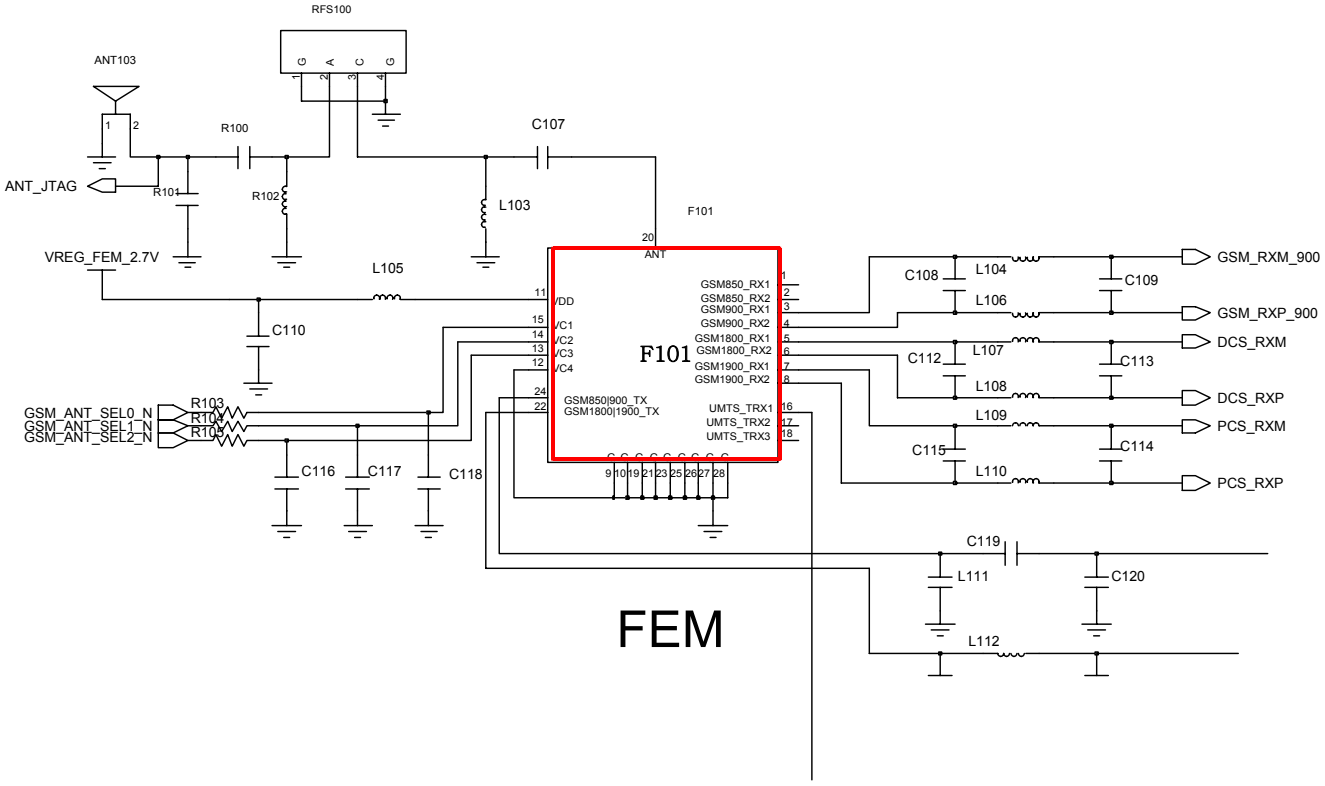

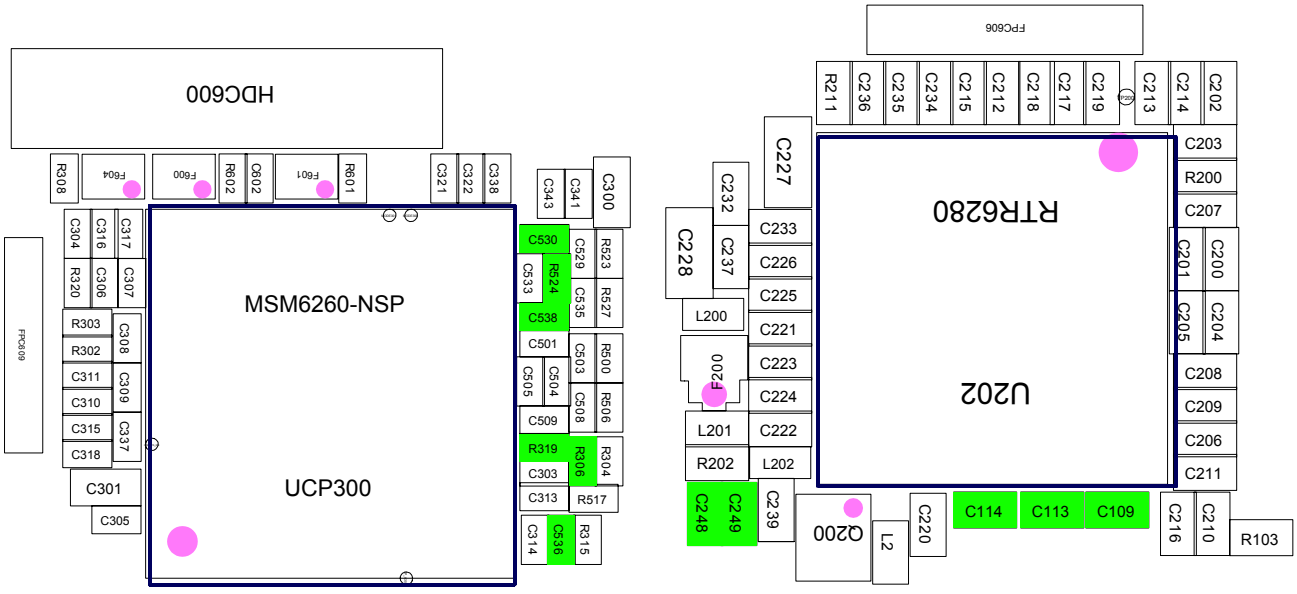

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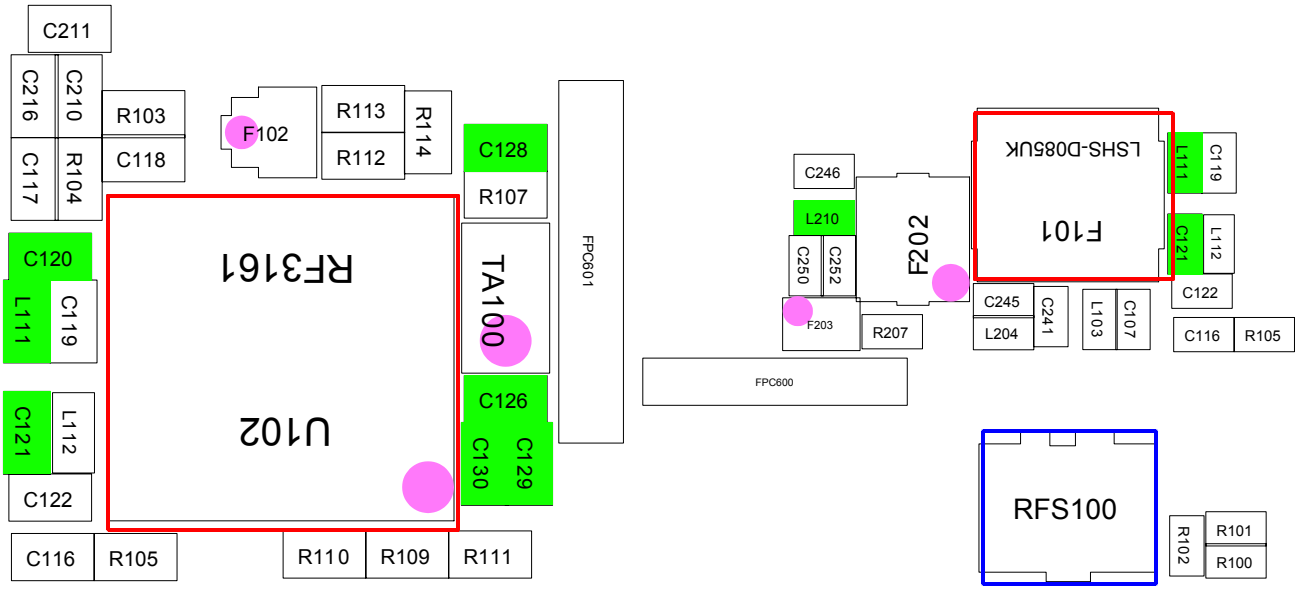

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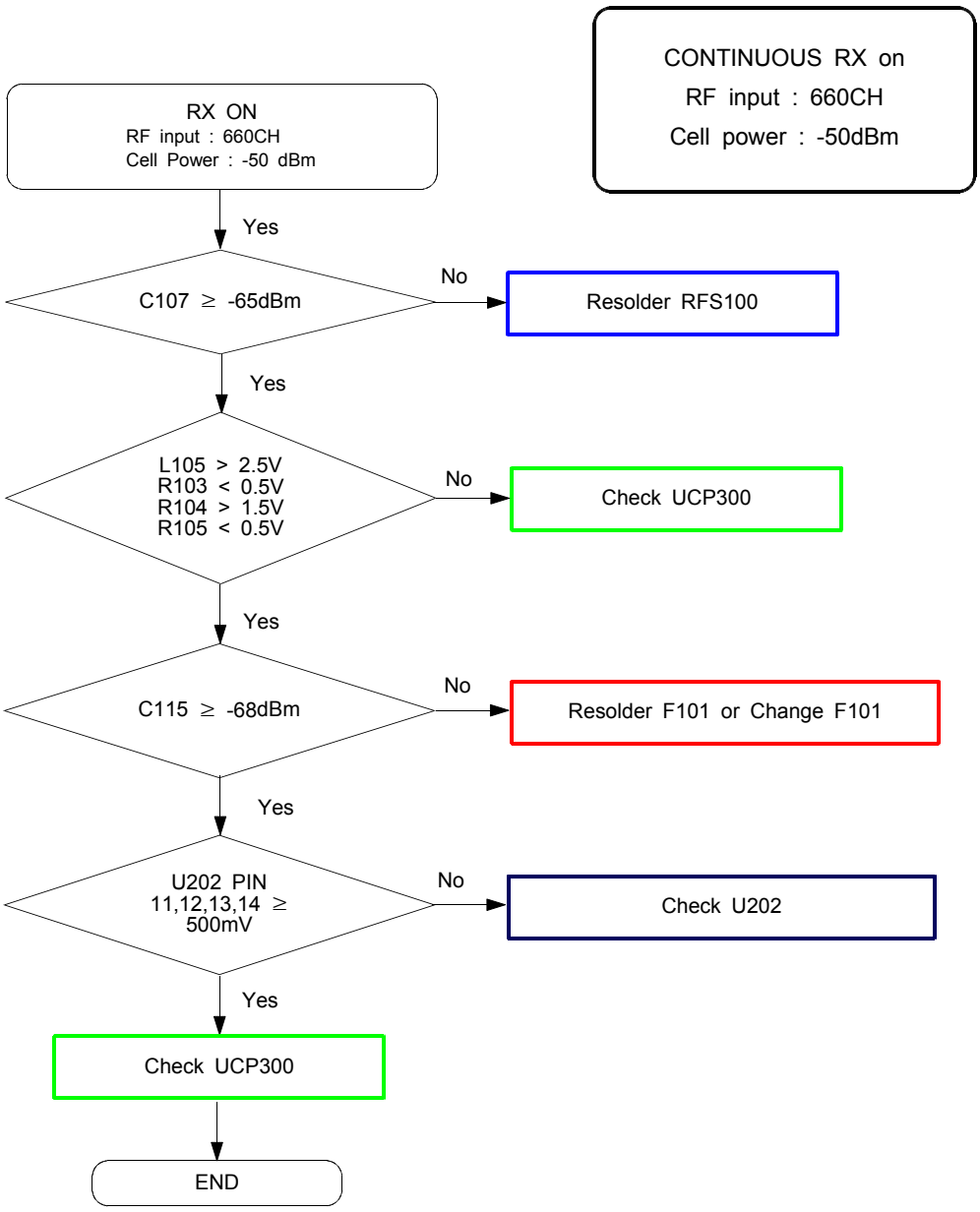
10-14. PCS Receiver



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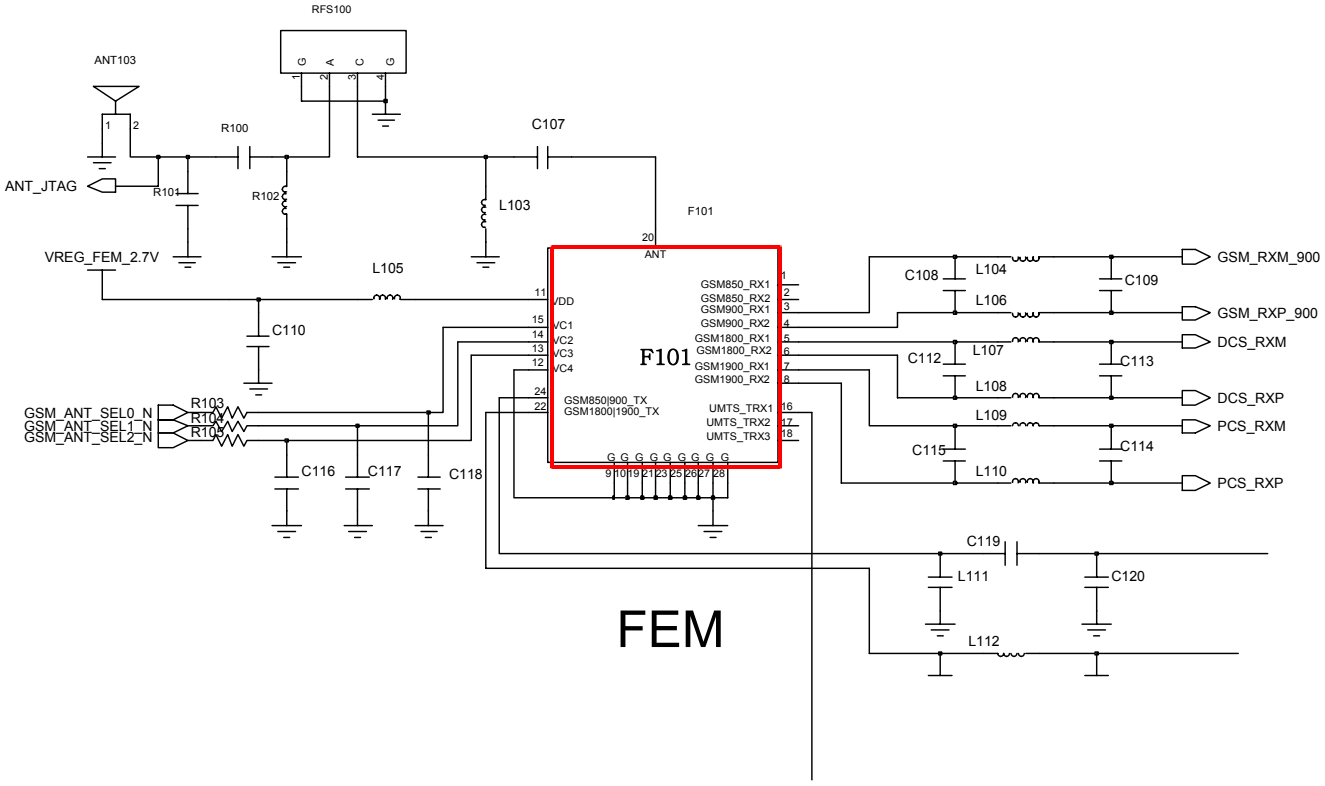

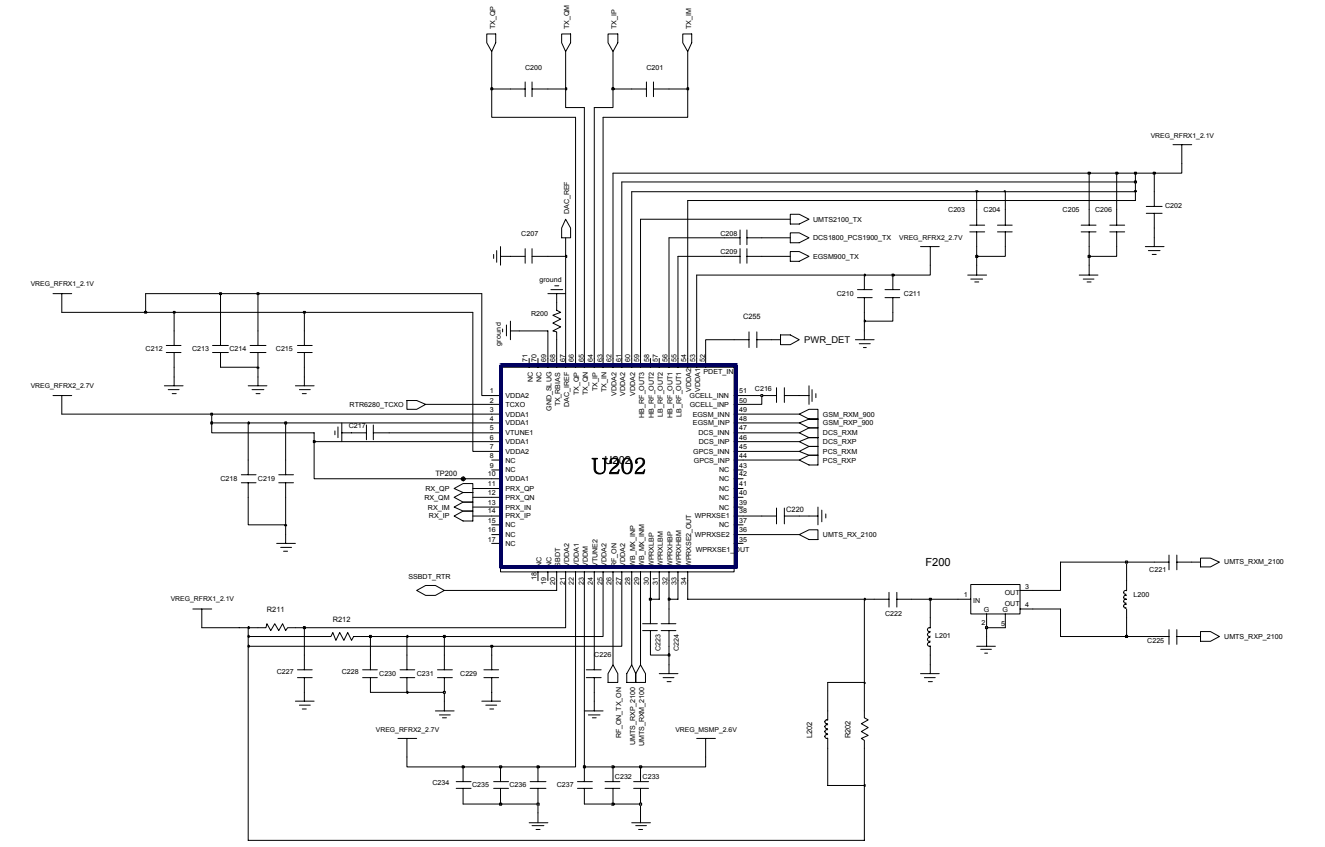

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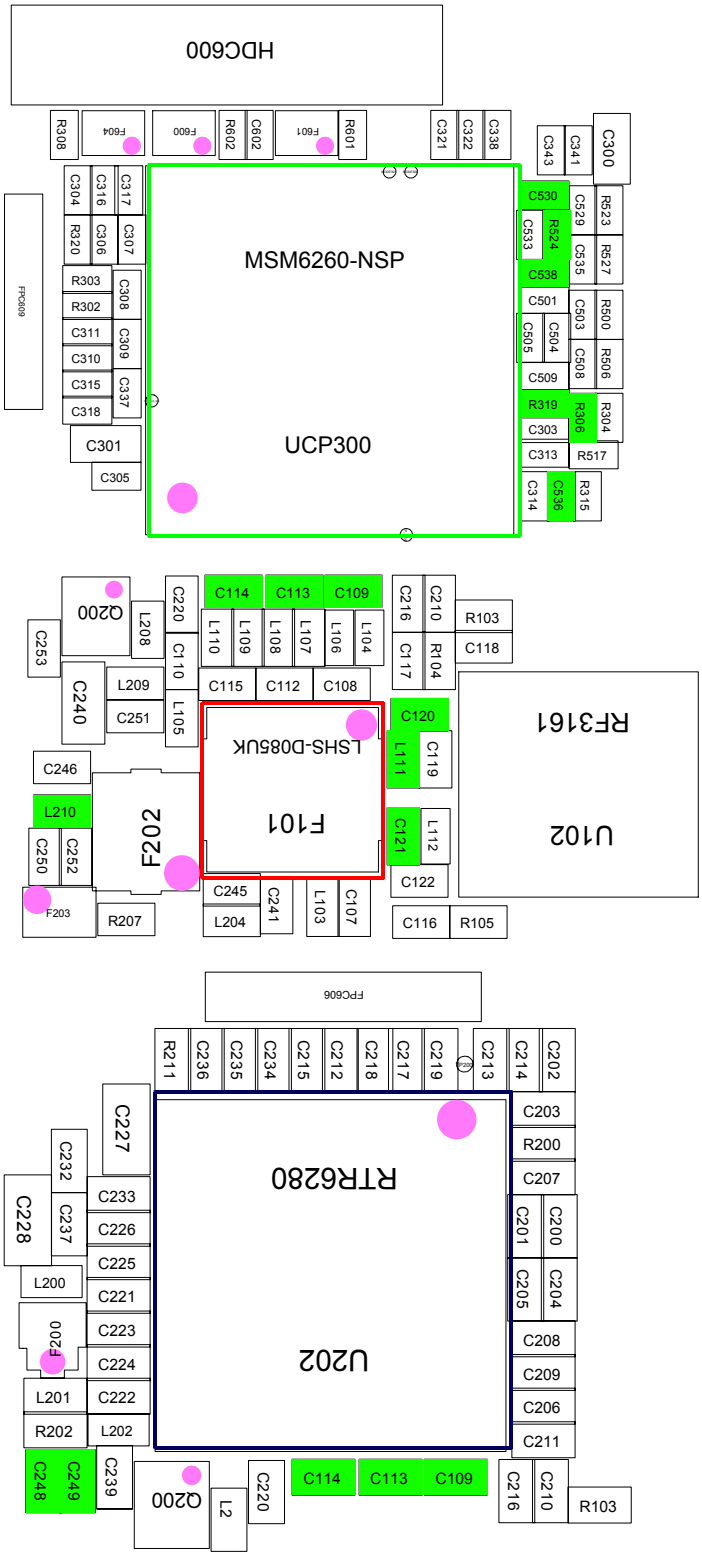

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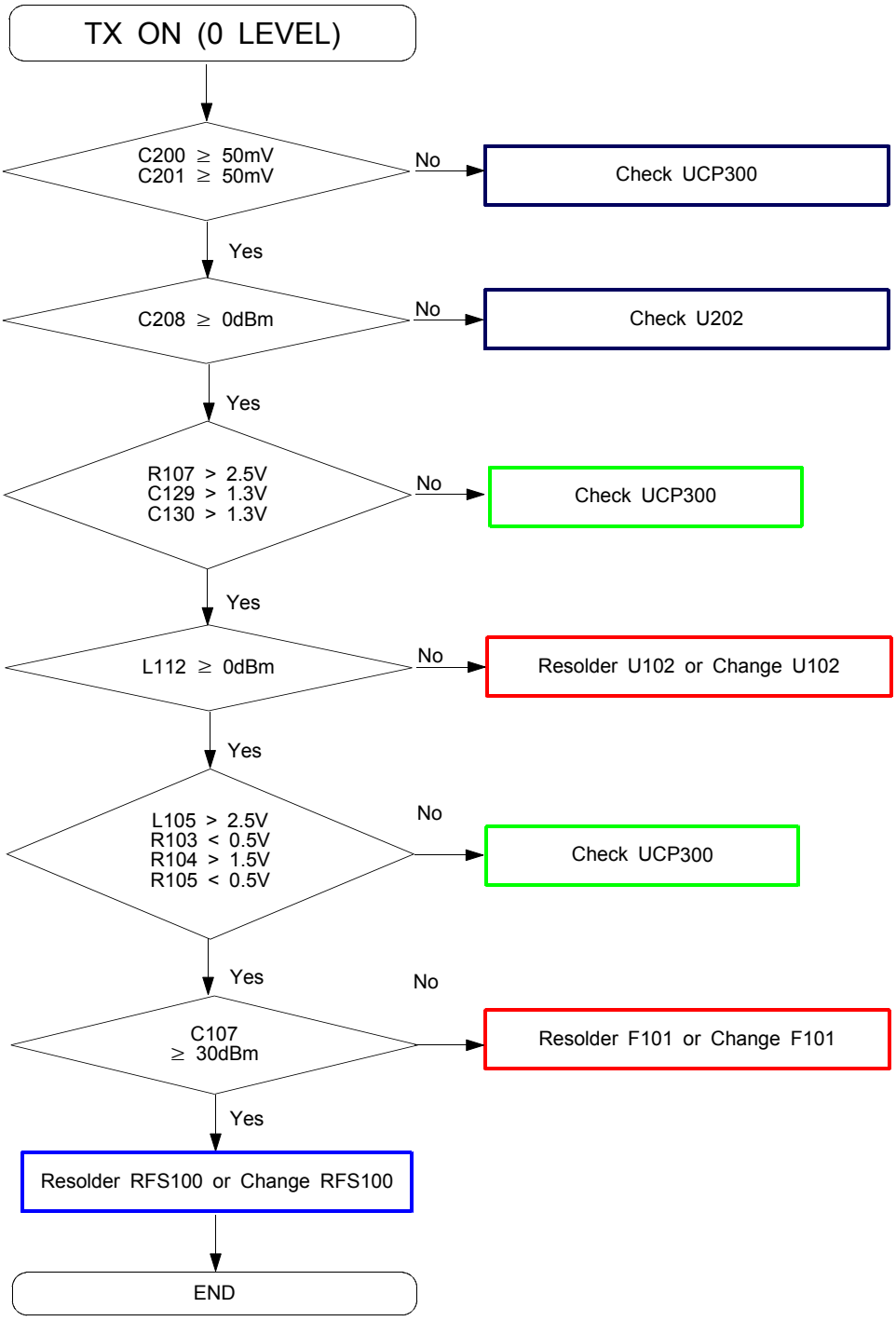
10-15. PCS Transmitter



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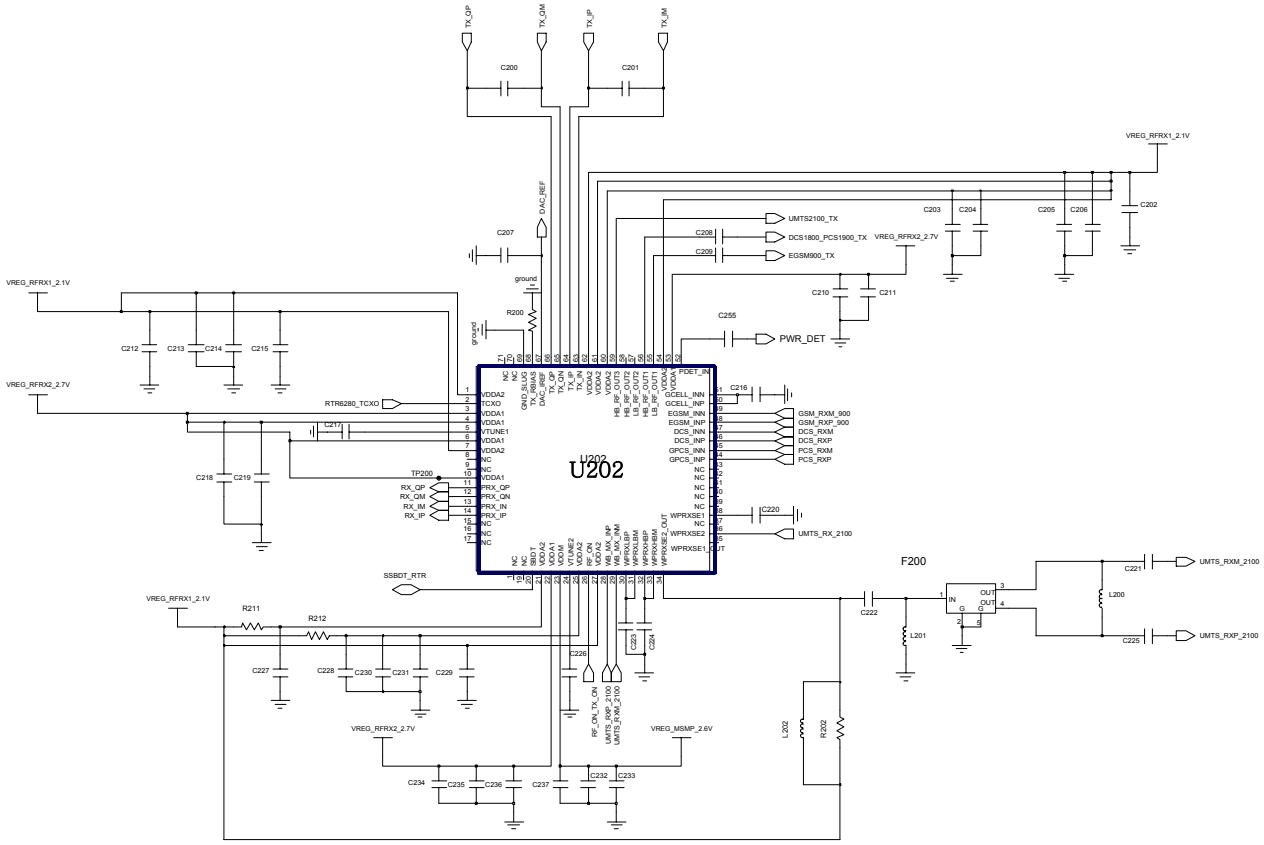
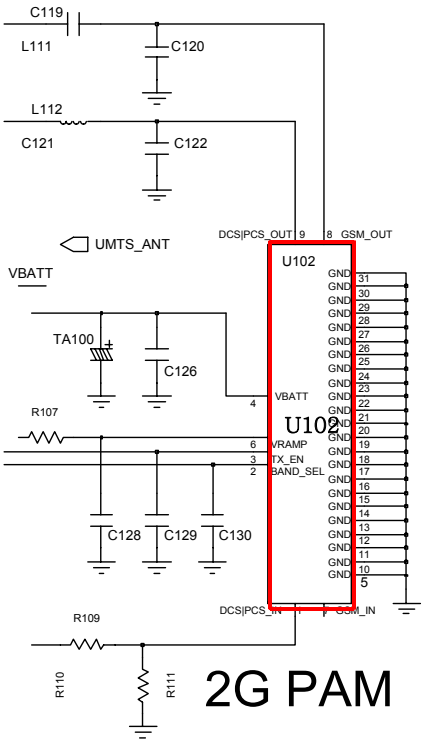


RF TRANSCEIVER



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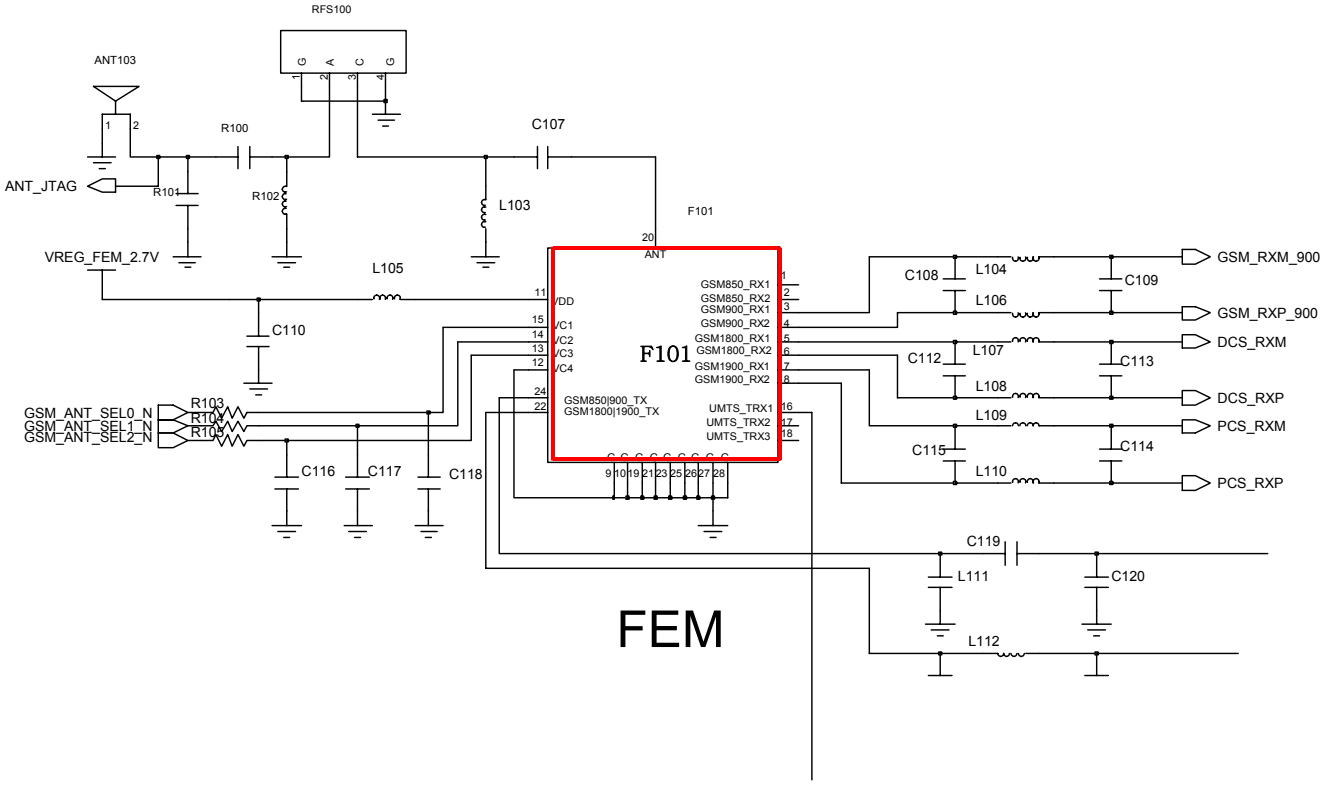

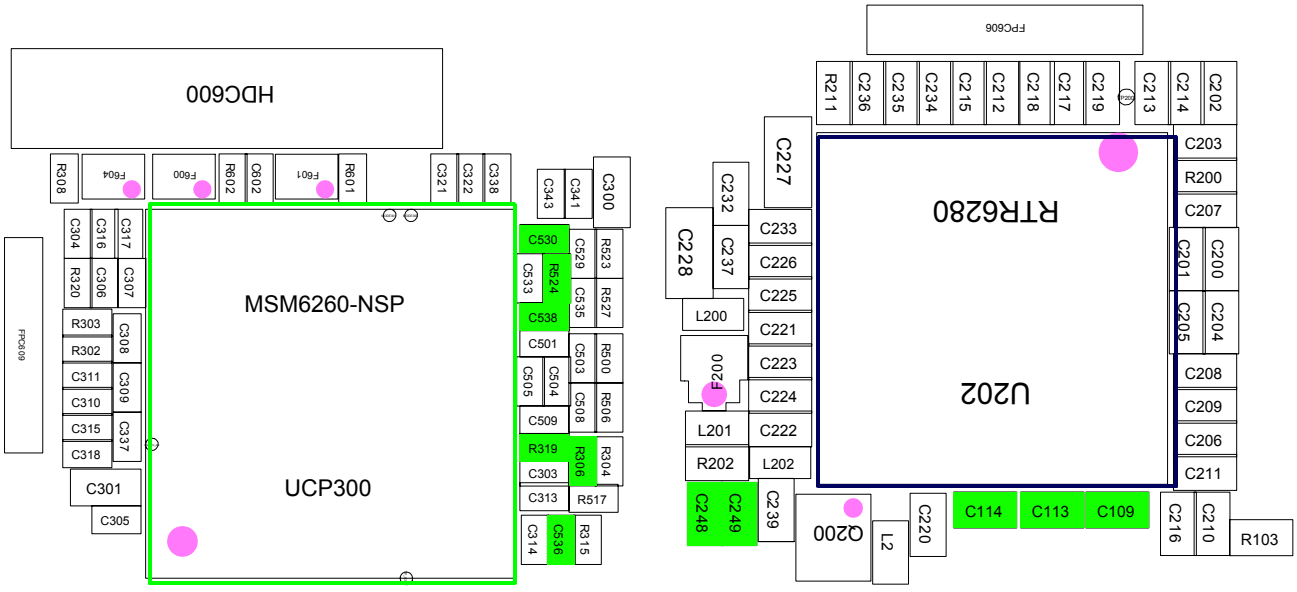

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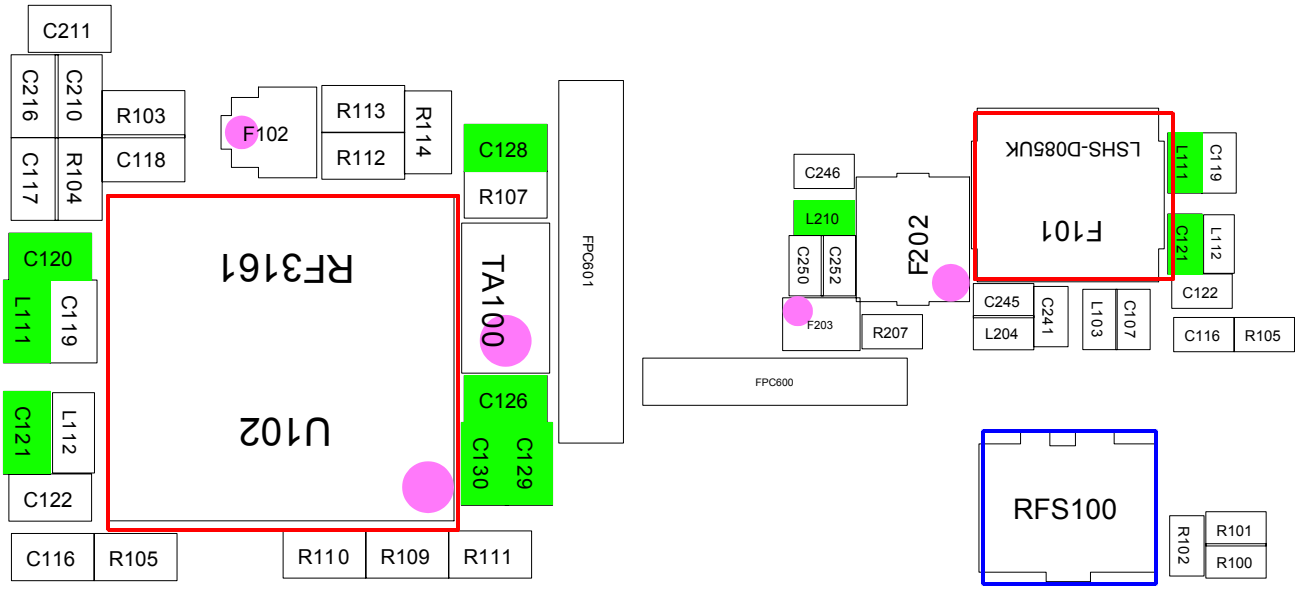

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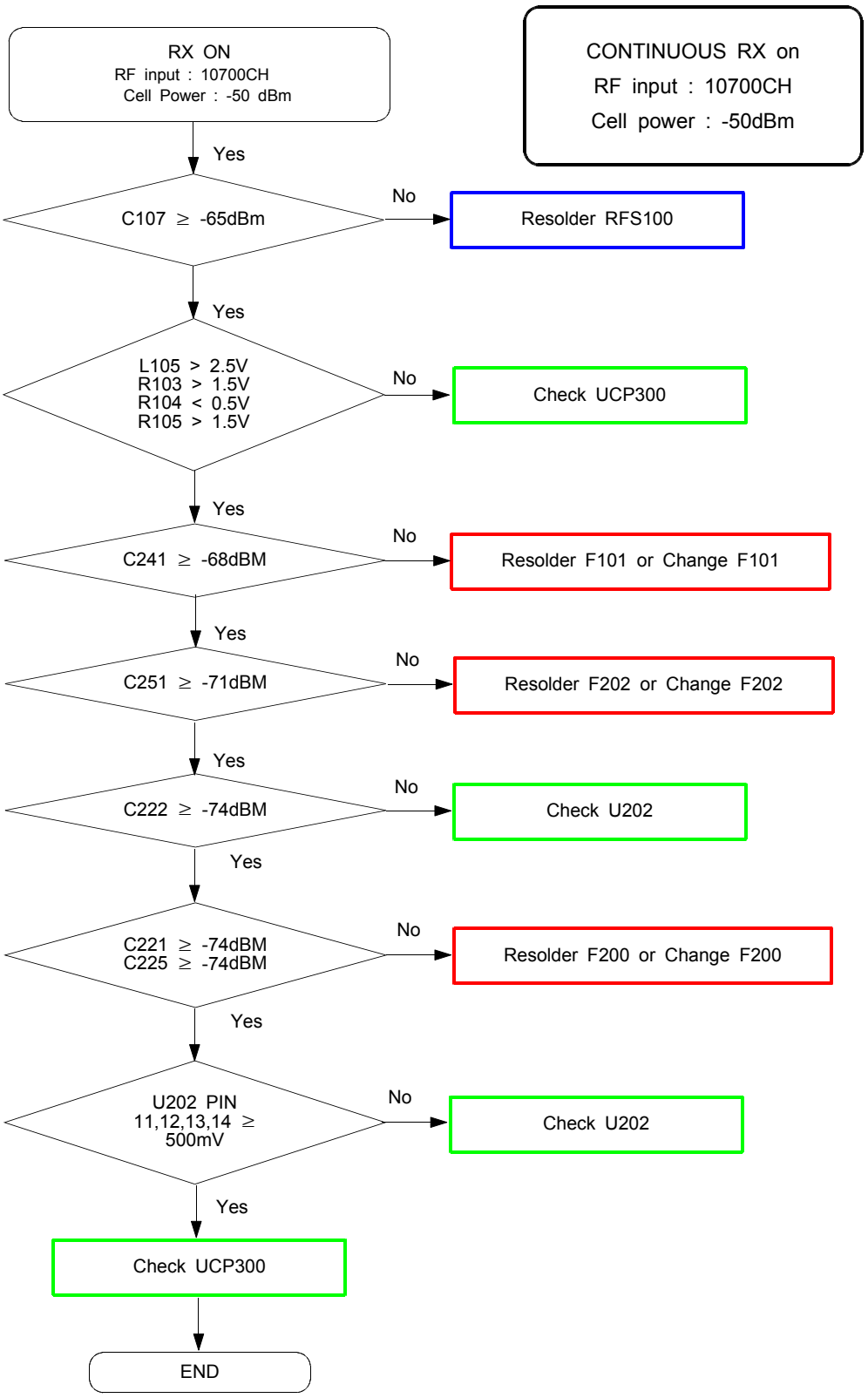
10-16. WCDMA Receiver



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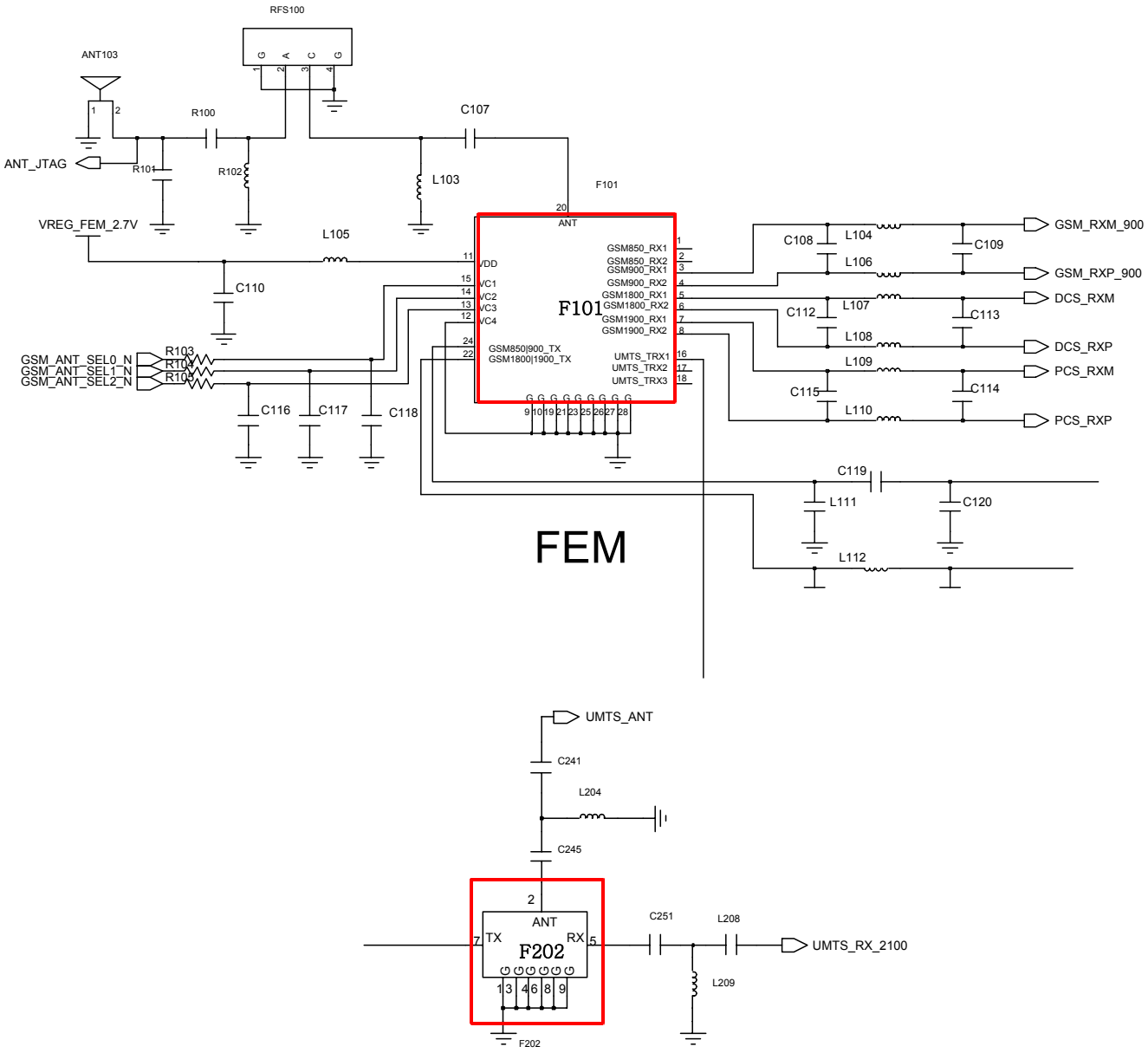

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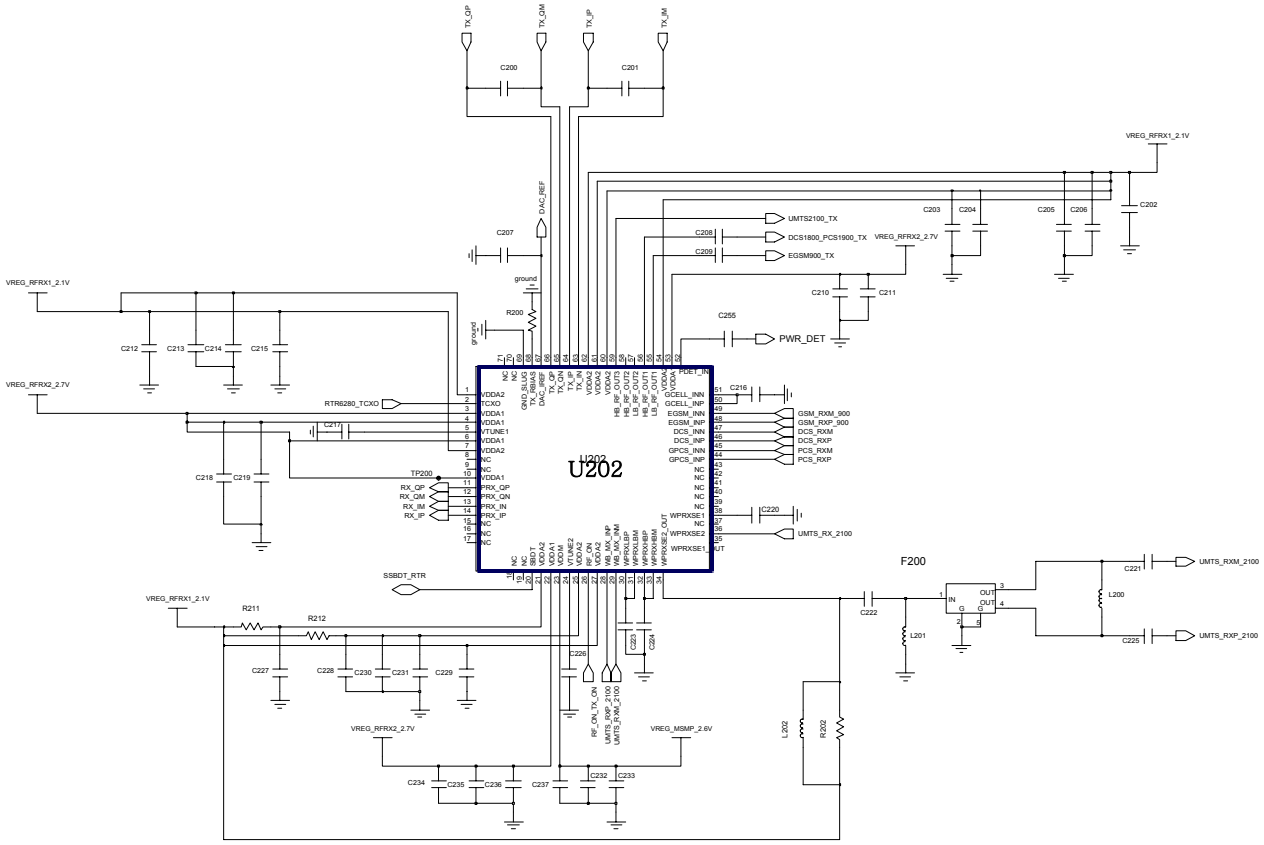
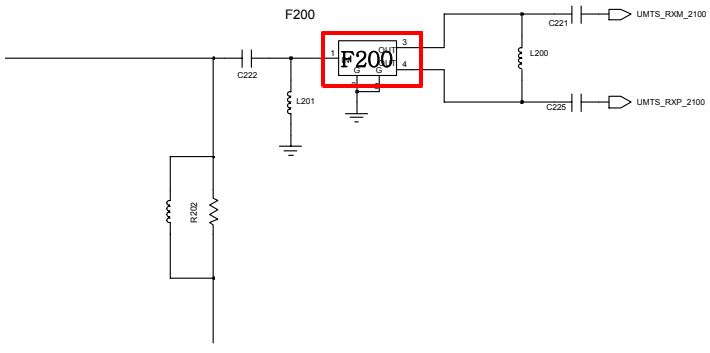


RF TRANSCEIVER



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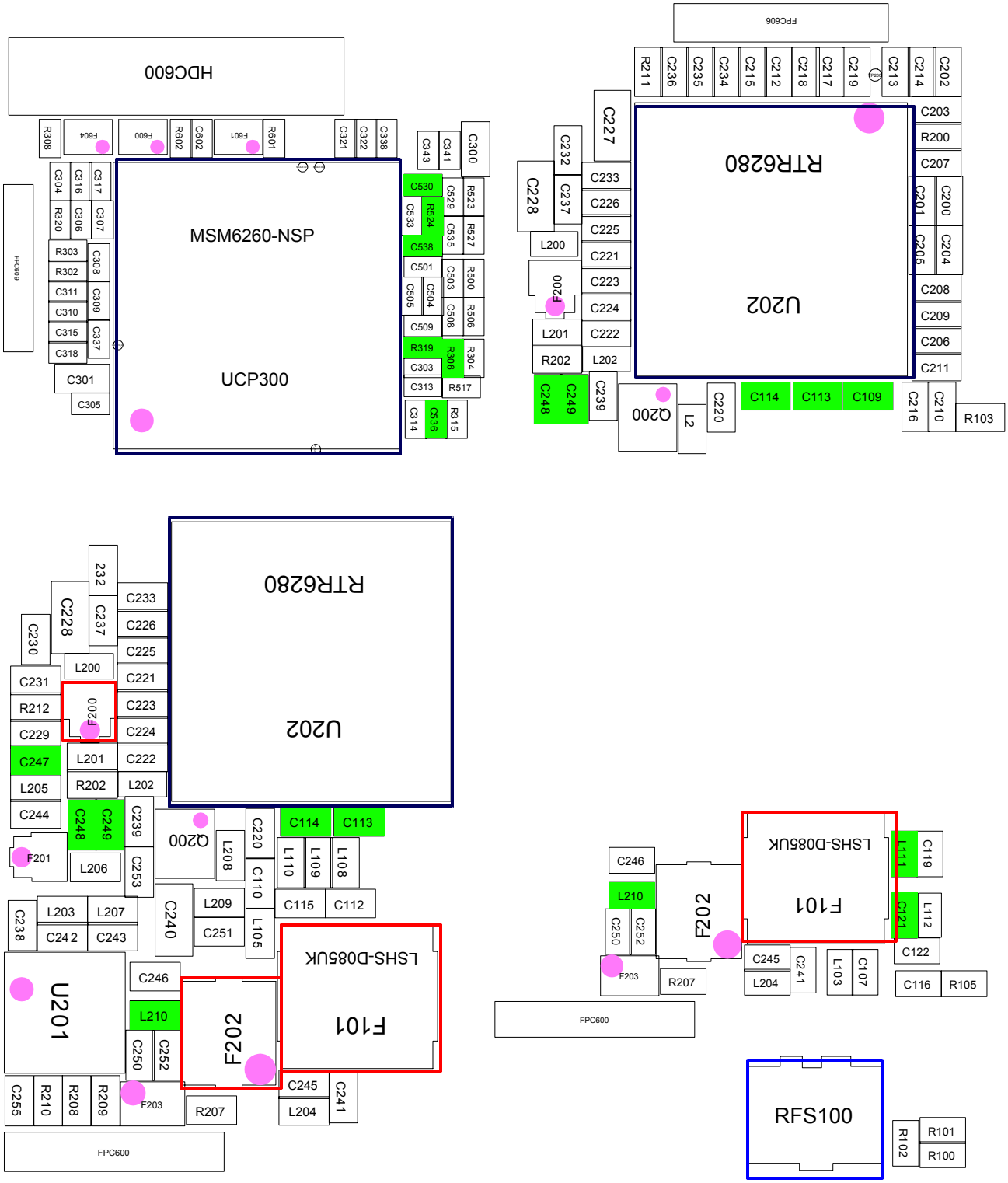

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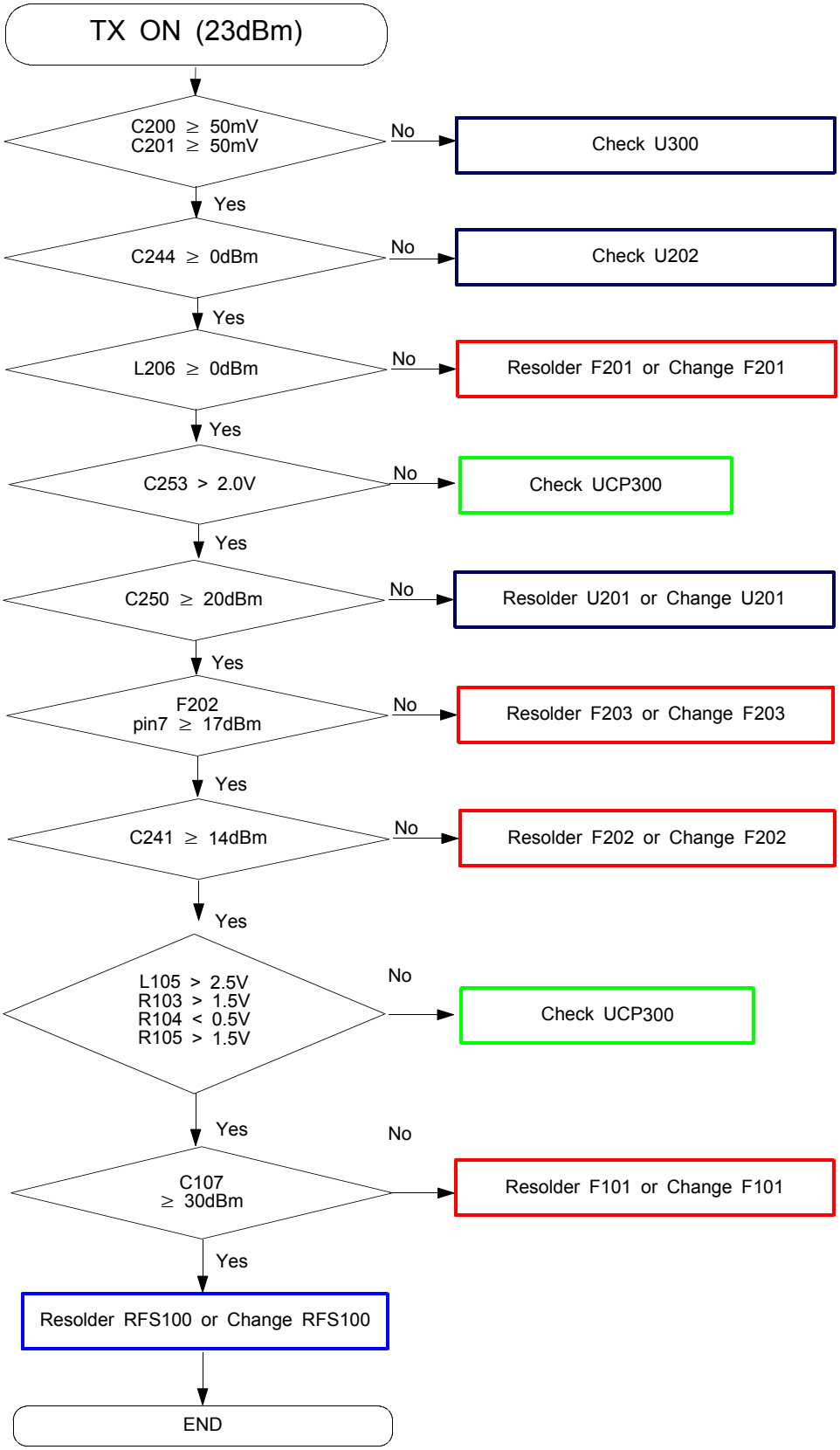
10-17. WCDMA Transmitter



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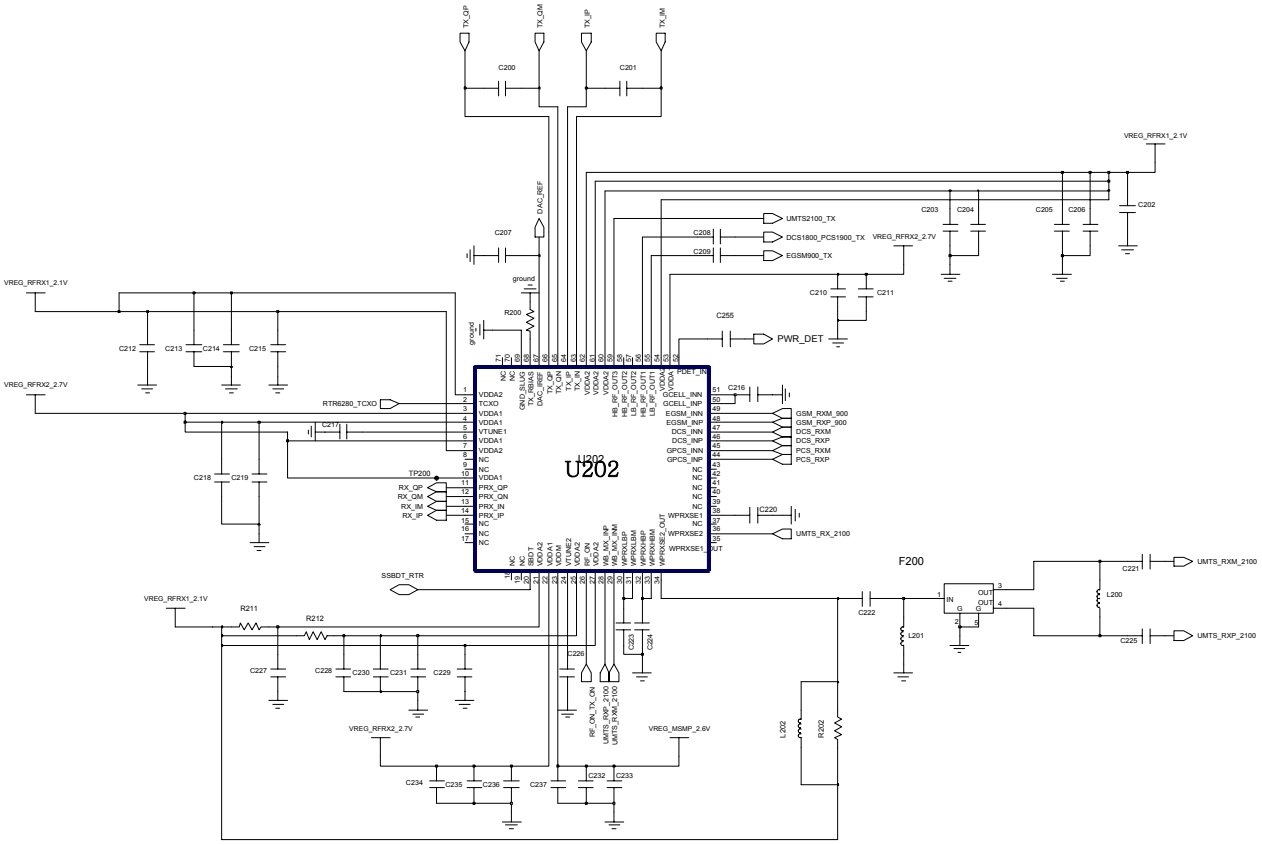

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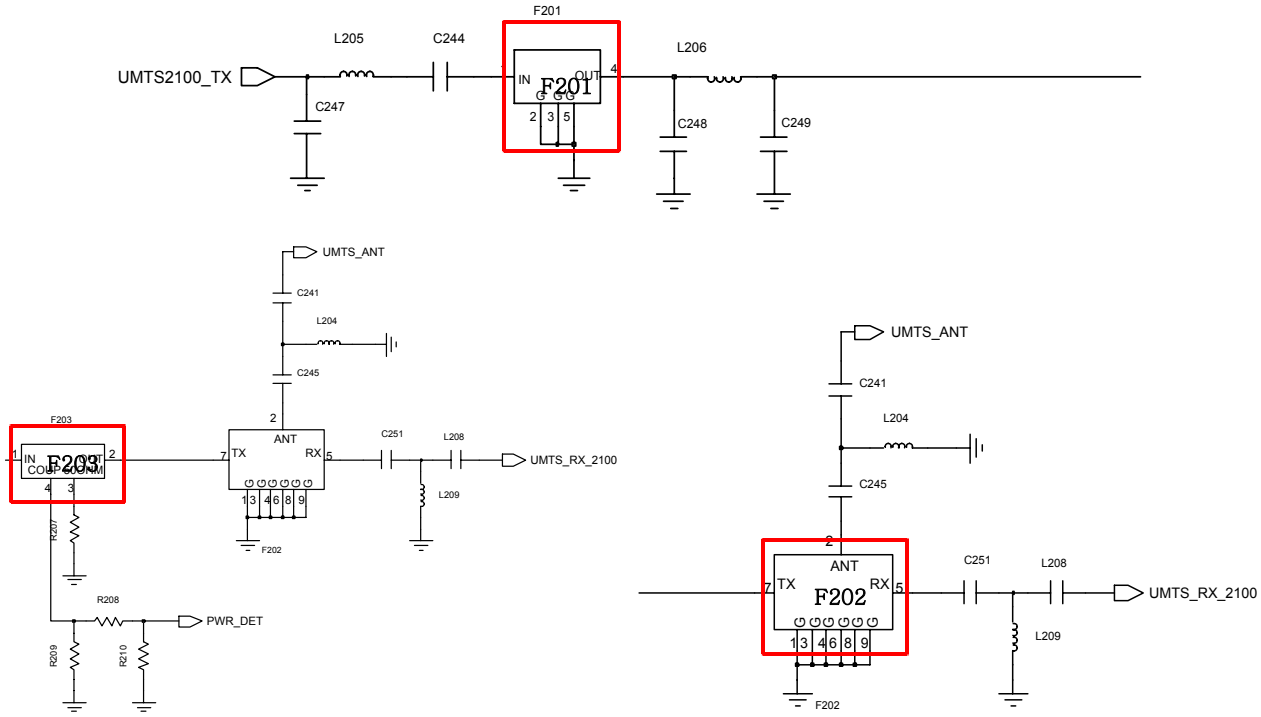

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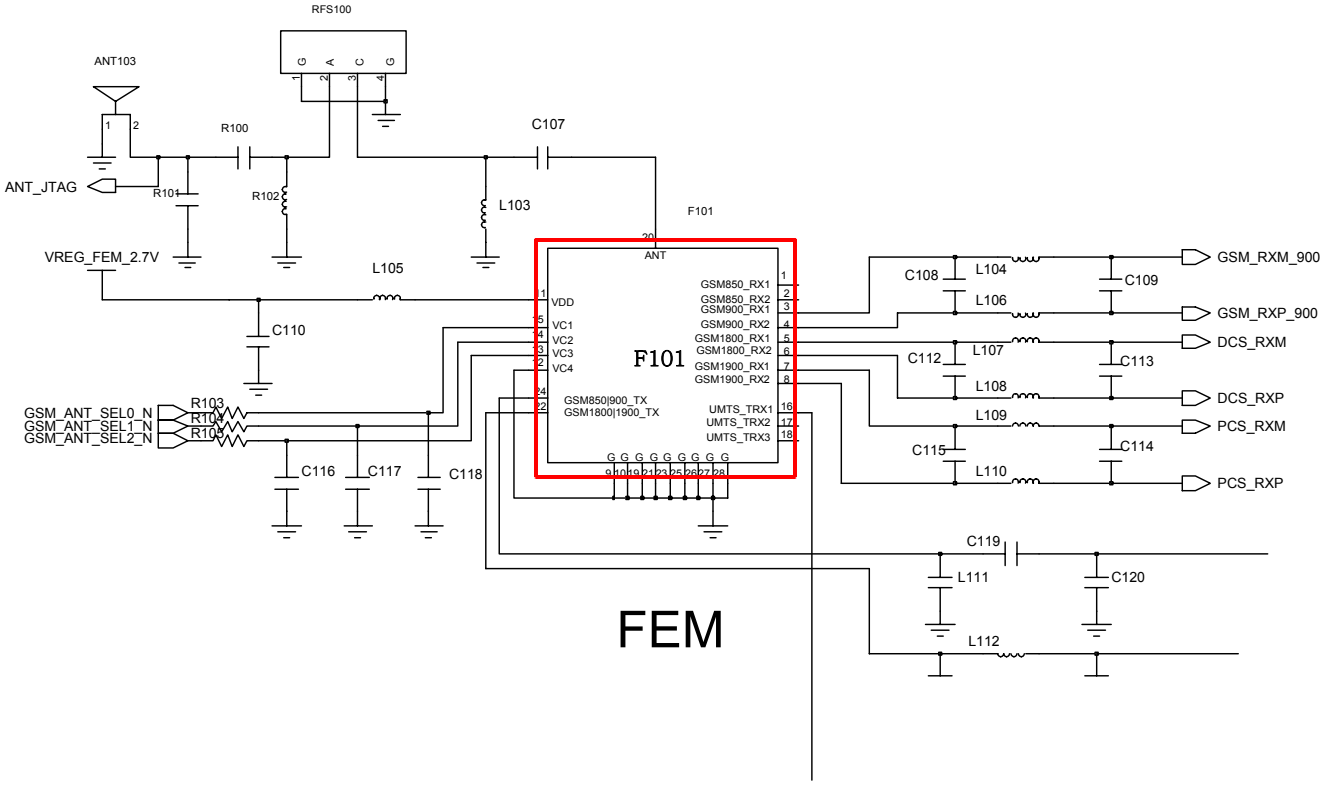

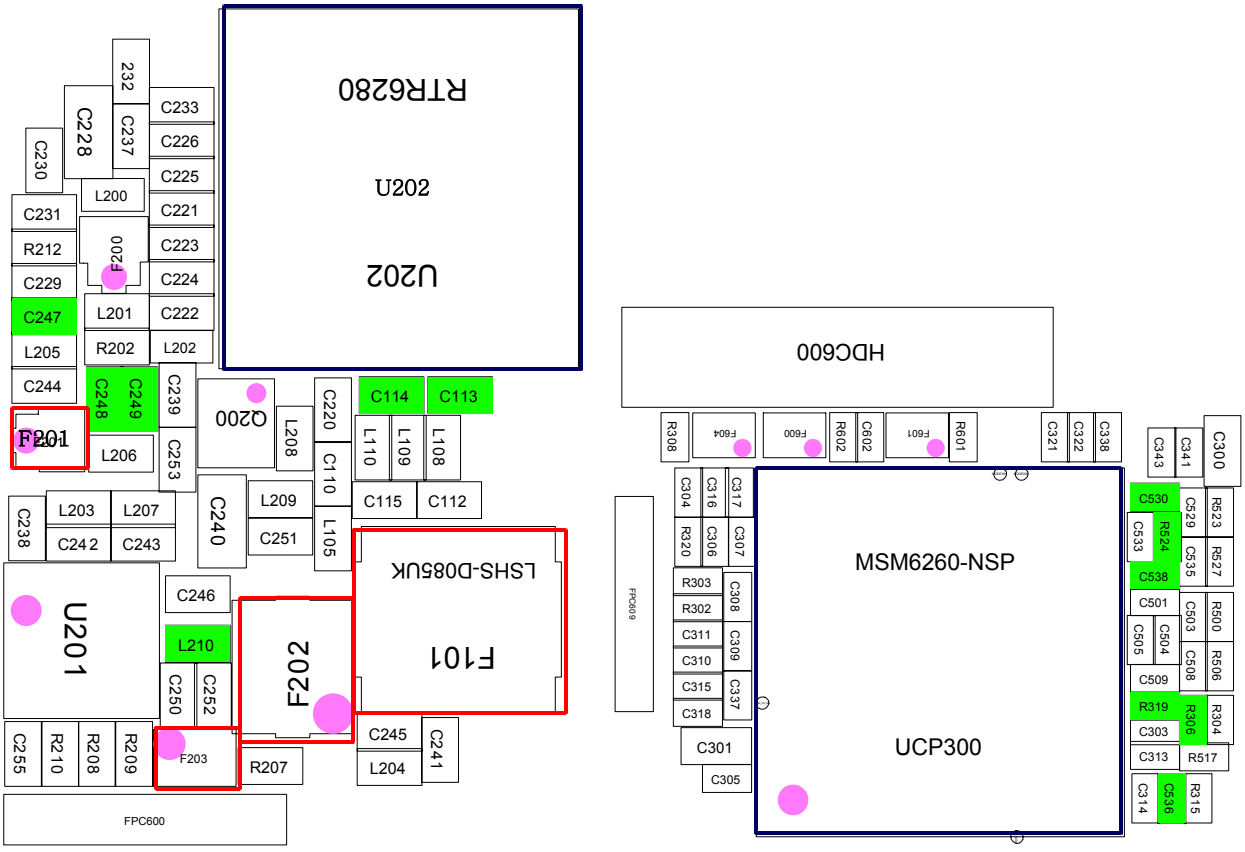

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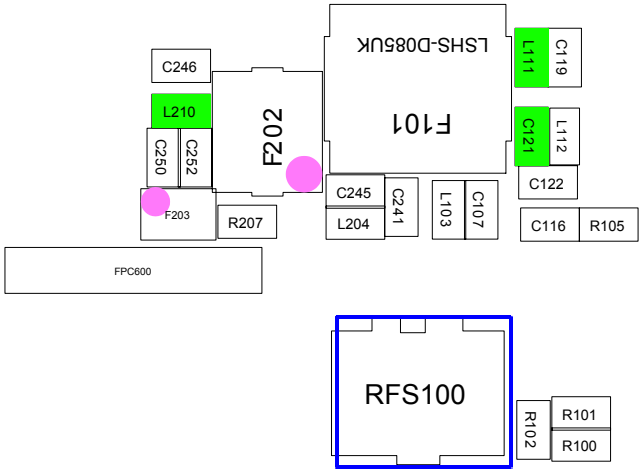

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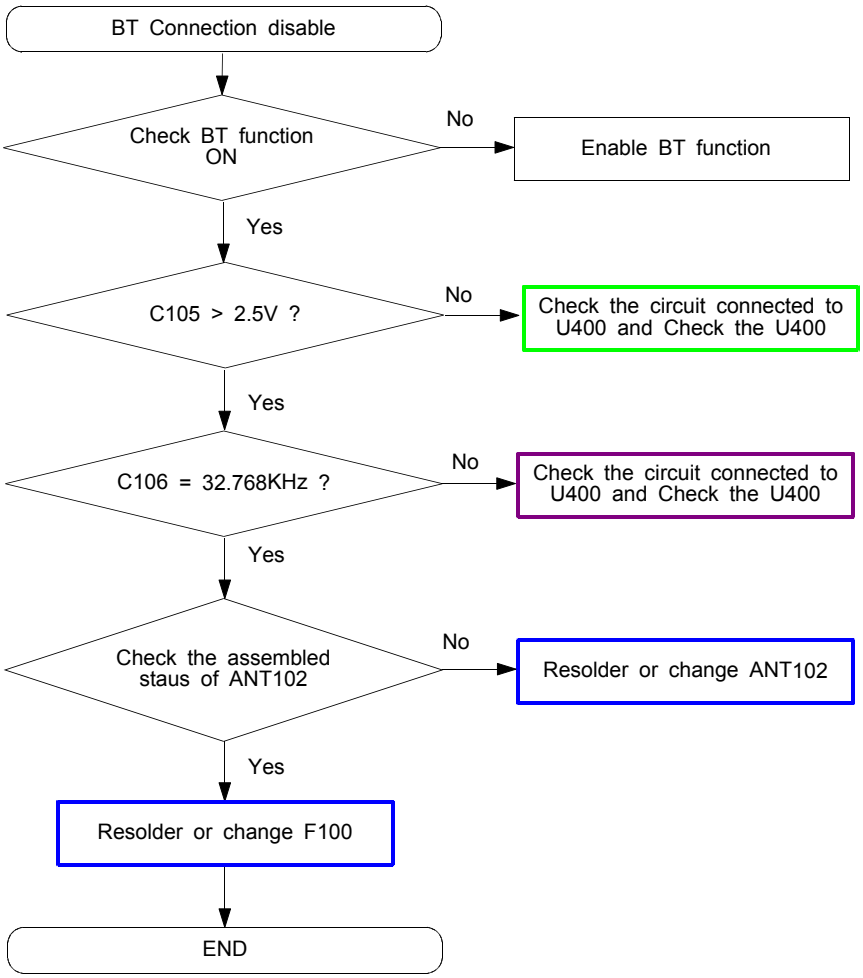
10-18. Bluetooth Part



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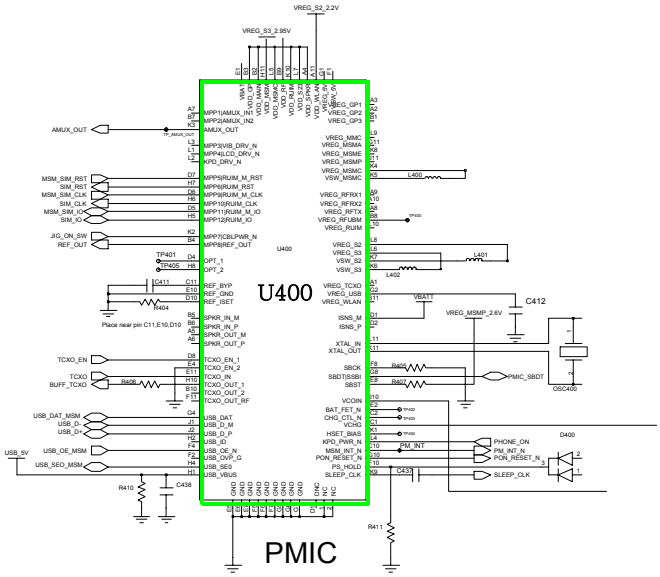

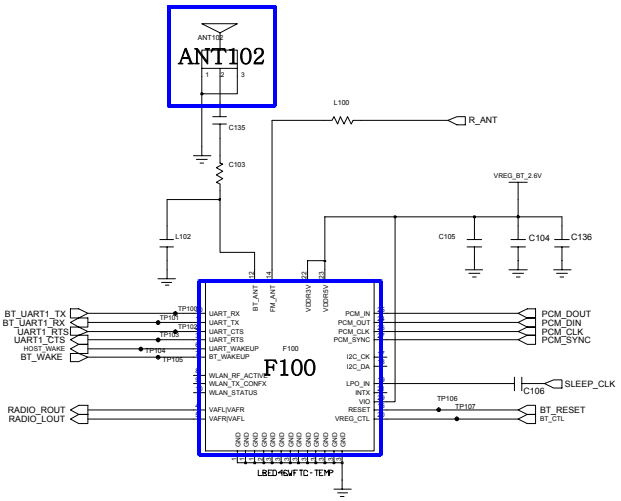

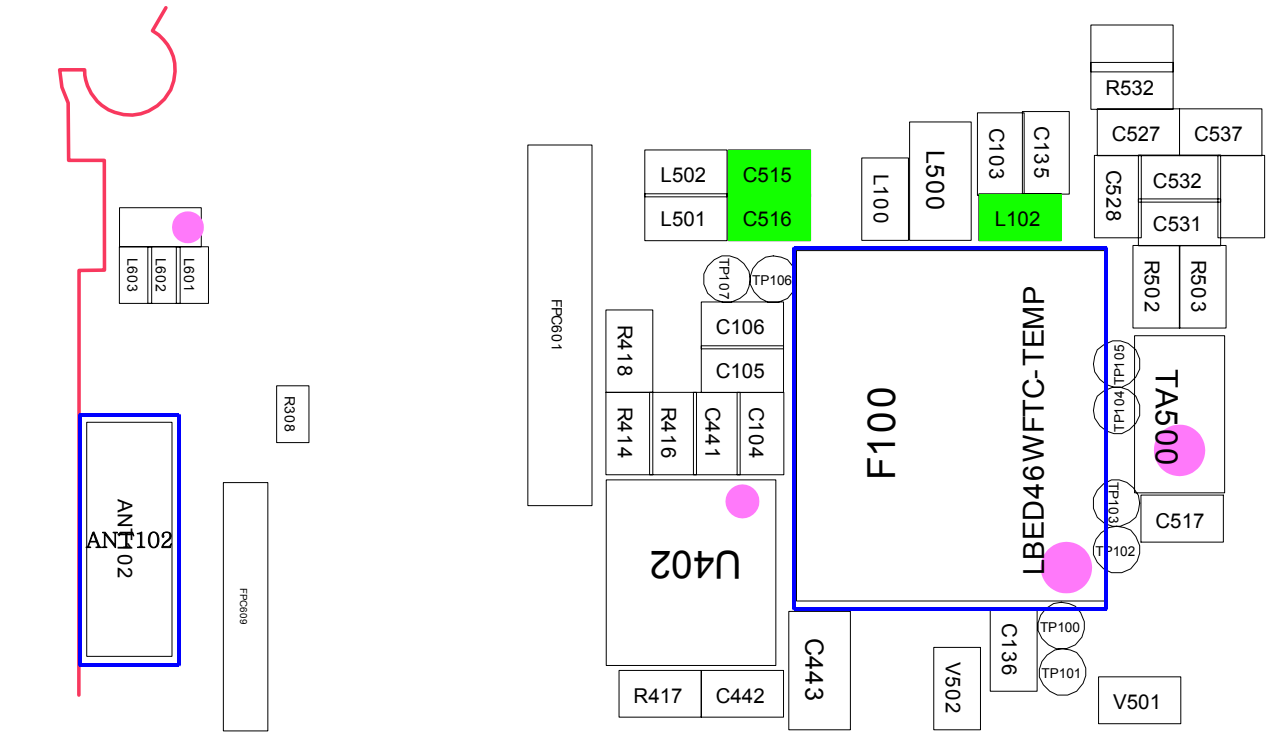

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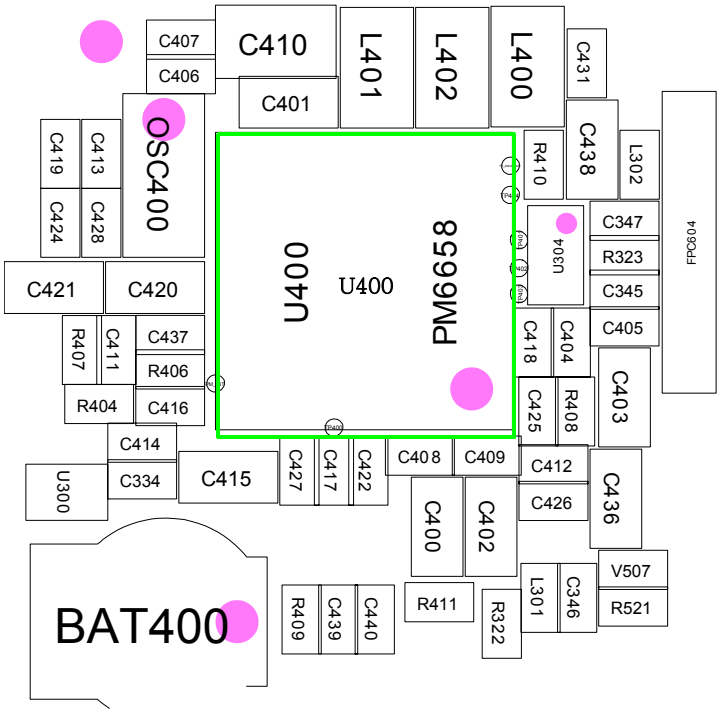

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4. Array course control

4-1. Software Adjustments

1. JIG(GH80-03308A): Download, Trace, Calibration, etc

2. 0.4M Test cable(GH39-00886A): JIG to phone

3. 1.5M Test cable(GH39-00889A): JIG to phone

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4.Travel Adaptor(GH44-01702A)

5.Data Link Cable(GH39-00922A): USB cable

6.Serial cable(LJ39-00013A) : PC to JIG

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7. RF test cable(GH39-00397A): RF test

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4-2. Software Downloading

4-2-1. Downloading Binary Files

•Four binary files for downloading L770V

– amss_compressed.bin : Modem binary for communication function and user interface and various application

– Rsrc_L770_Vodafone.rc1 : Files need for each application

– Rsrc2_L770V(Low).rc2 : Power on/off animation

– FactoryFs_L770_Vodafone.ffs : Default file system to be put into in initial production

4-2-2. Pre-requsite for Downloading

•Downloader Program (**MultiLoader V5.32.exe**)

•SGH-L770V Mobile Phone

•USB Data Link Cable

•Binary files

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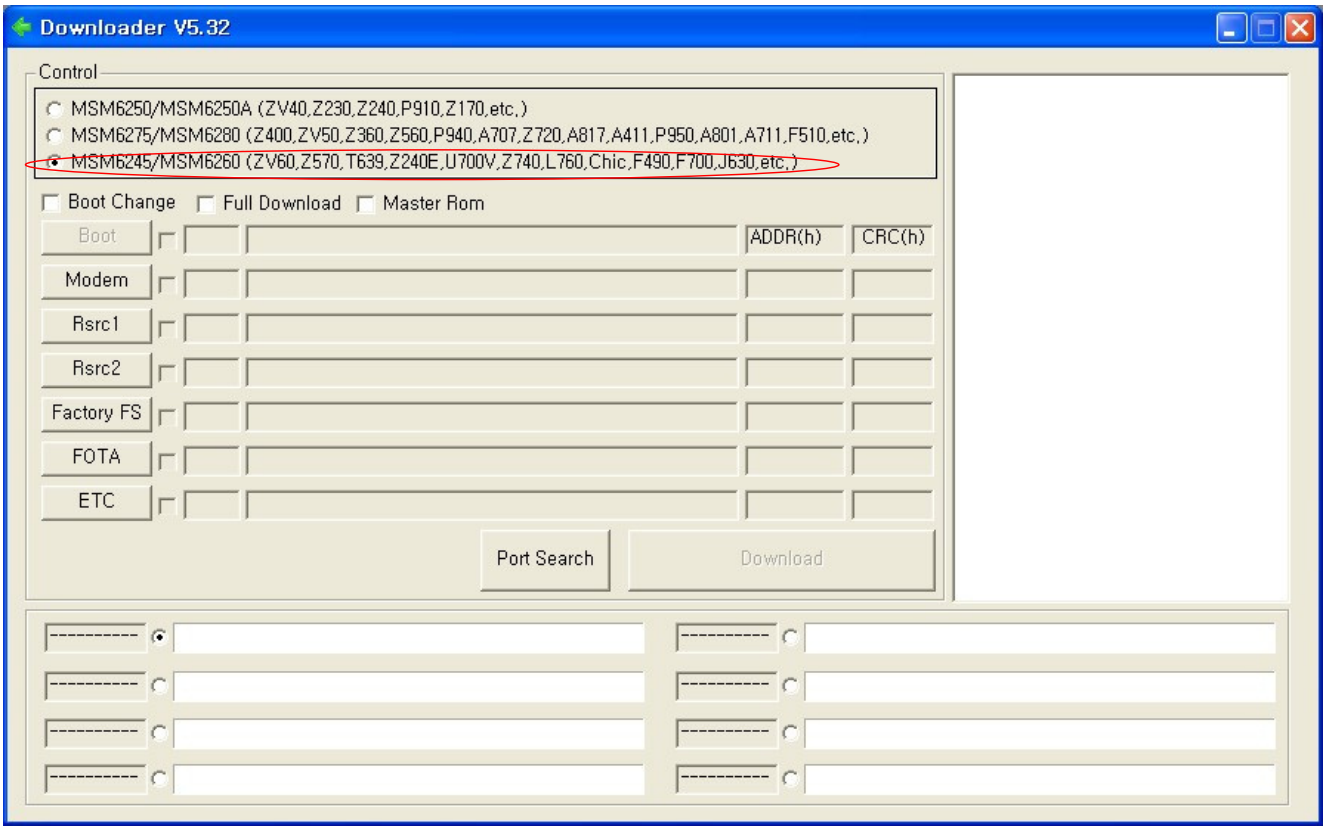
4-2-3. S/W Downloader Program

1. Boot the L770V by pressing 'power ON' + 'number 9' at the same time.
If you do properly, you can see the following message on Main LCD "Download"

2. Load the binary download program by executing the "**MultiLoader V5.32.exe**".
And the Check the **MSM6245/MSM6260**



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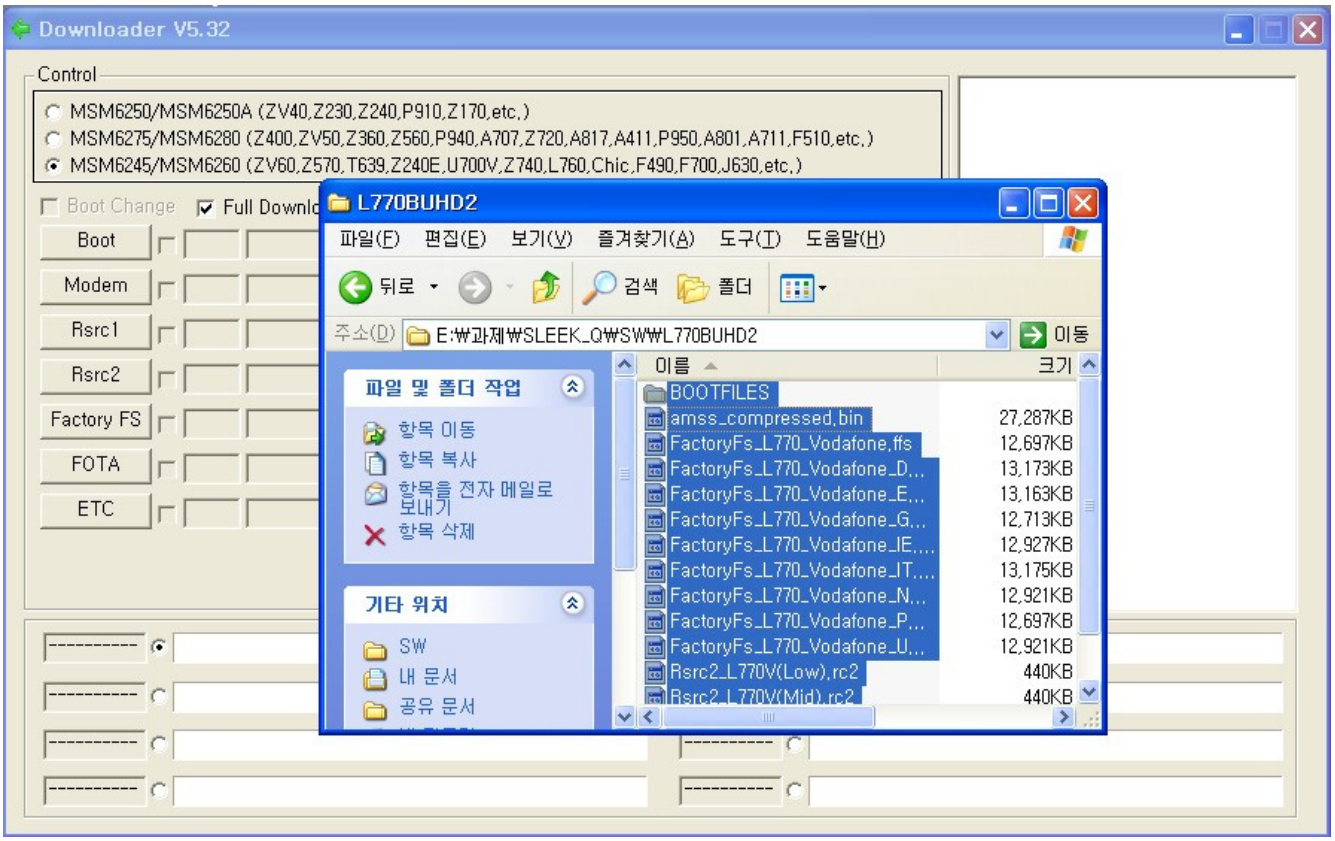
3. Select the binary file what you want to download and drag all



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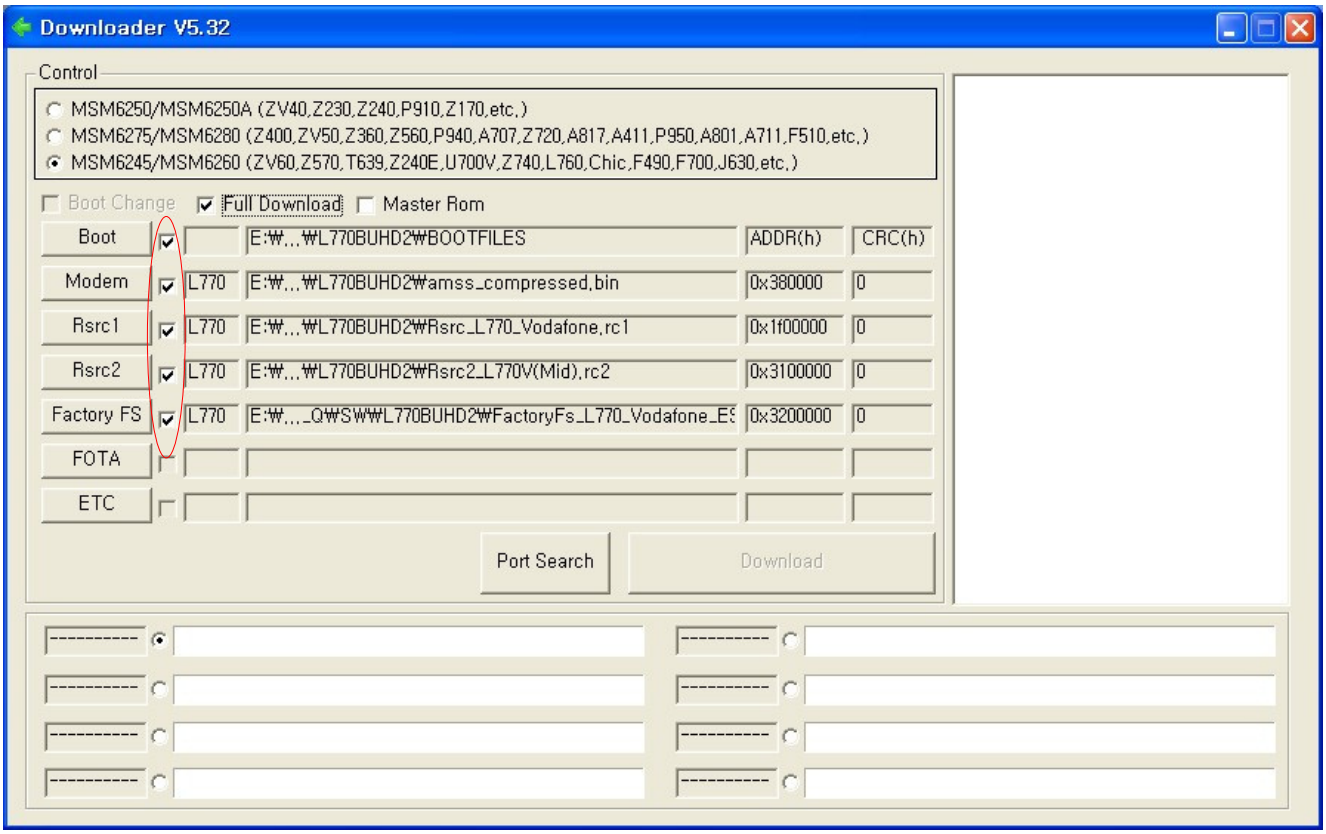
4. Select the check box what you want to download.



* Up to eight ports are supported.

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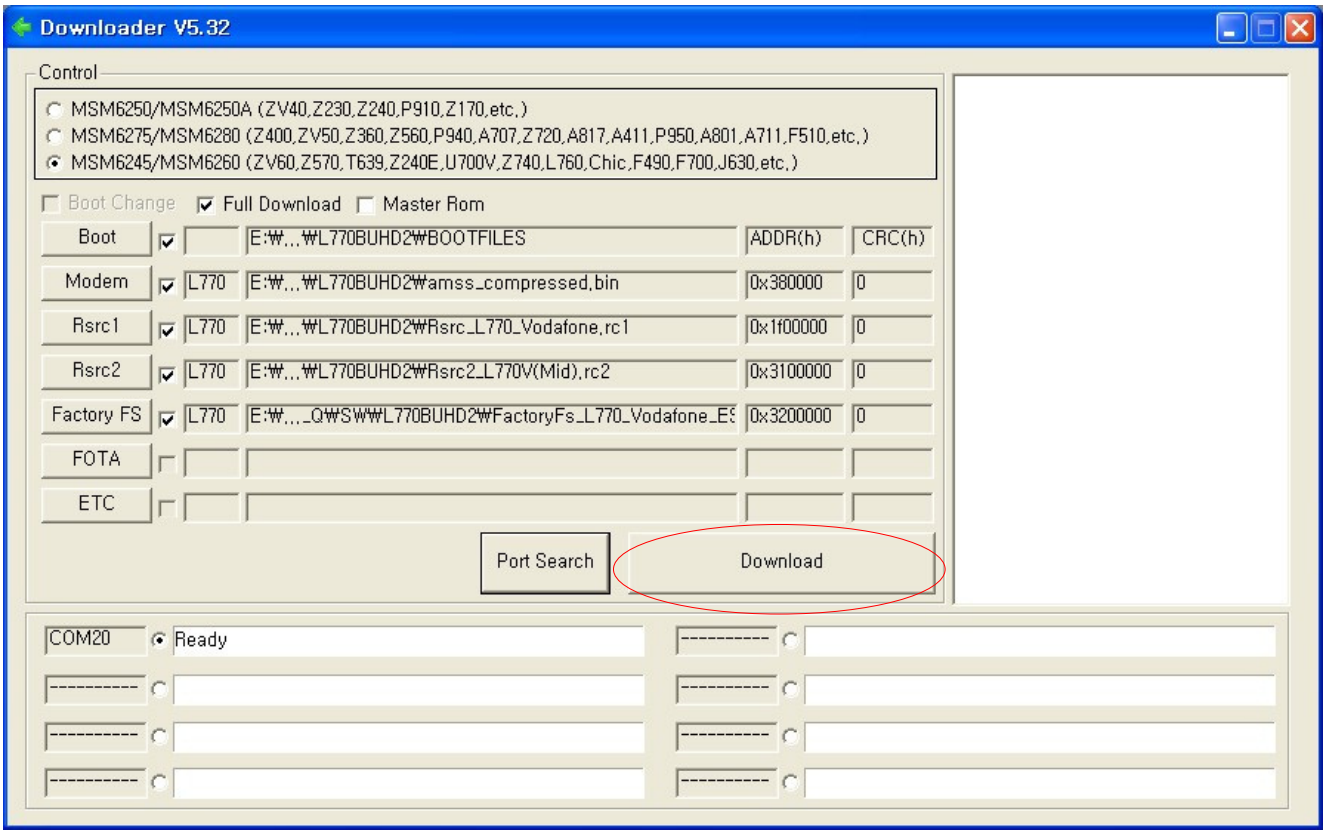
5. Now press the button 'DownLoad'.



6. When downloading is complete, UE reboot automatically.
-If there is difference in FactoryFS.bin, UE will format file system automatically.

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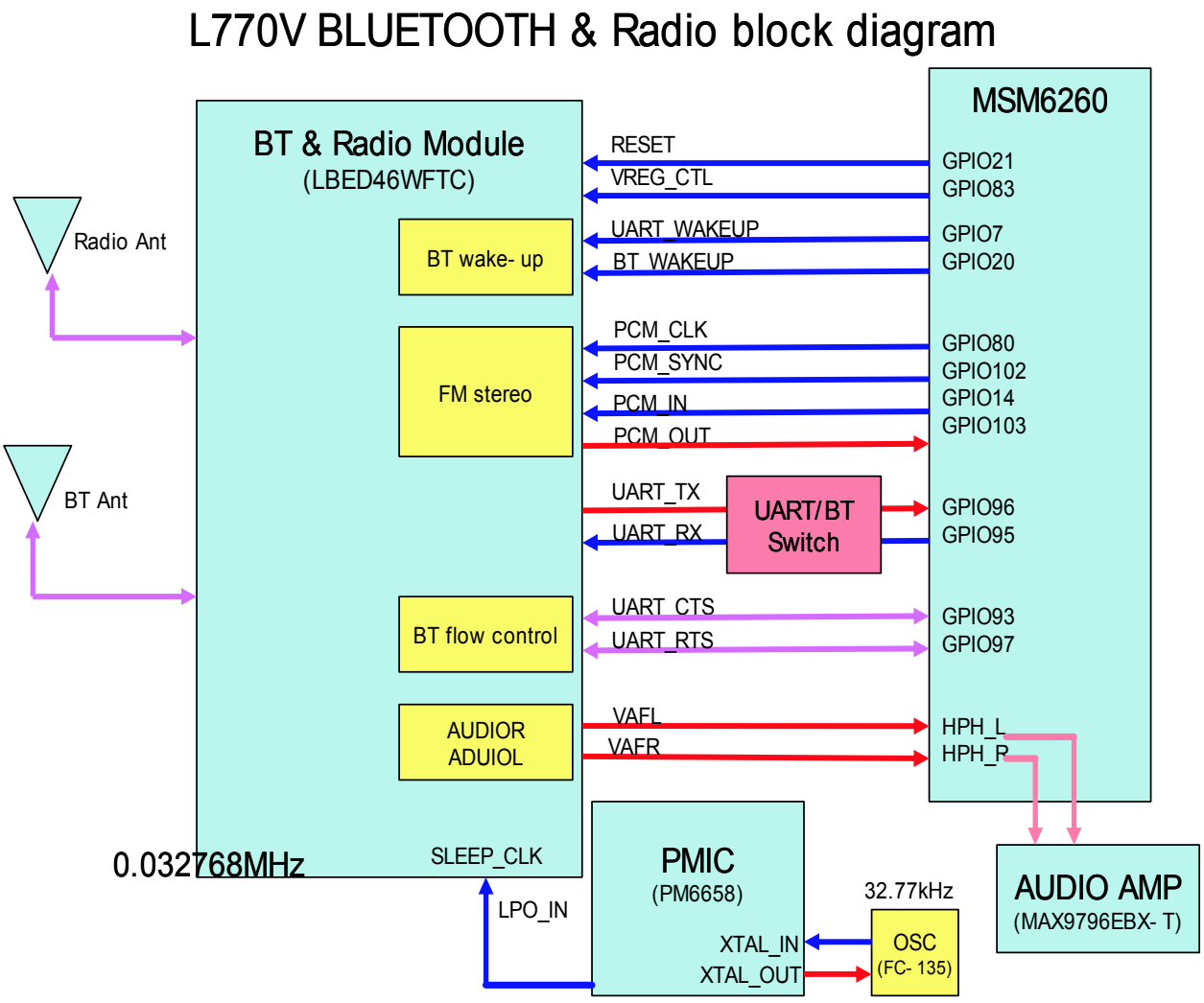
8. Block Diagrams

8-1. RF Block Diagram



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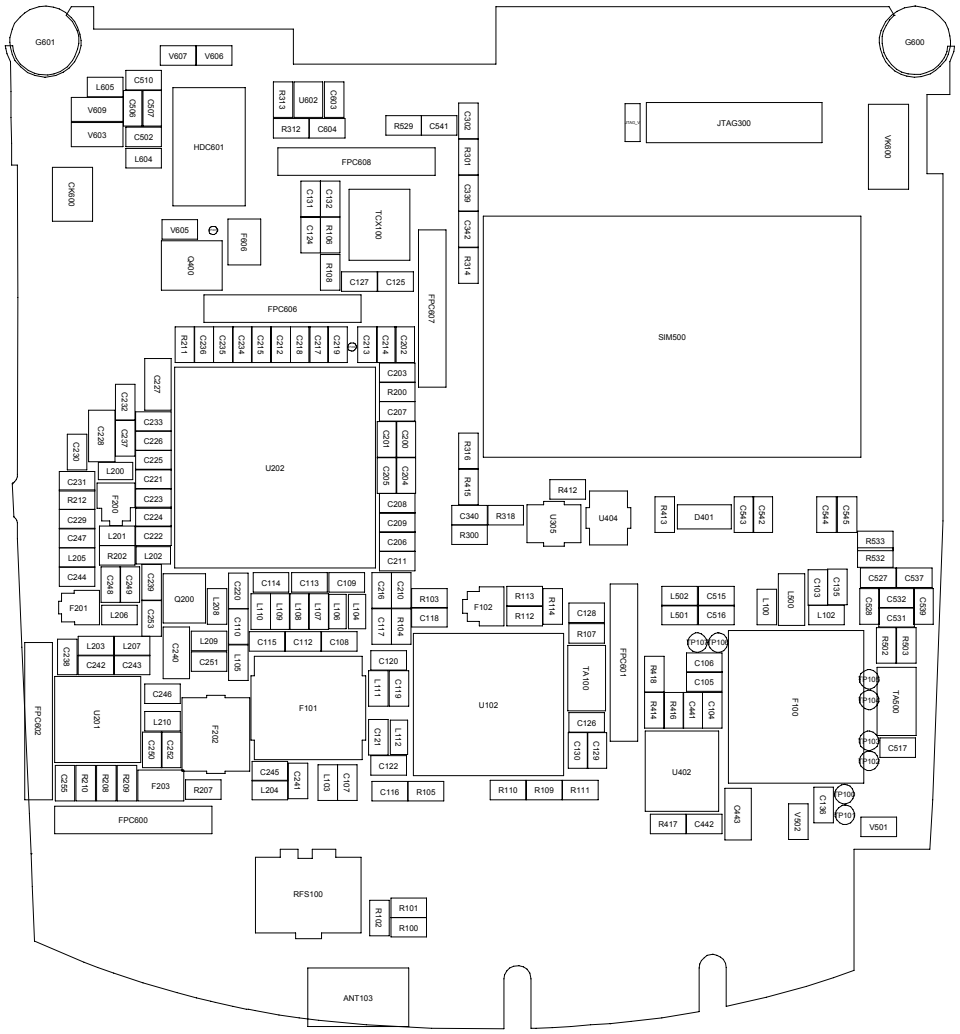
9. PCB Diagrams

9-1. Main top



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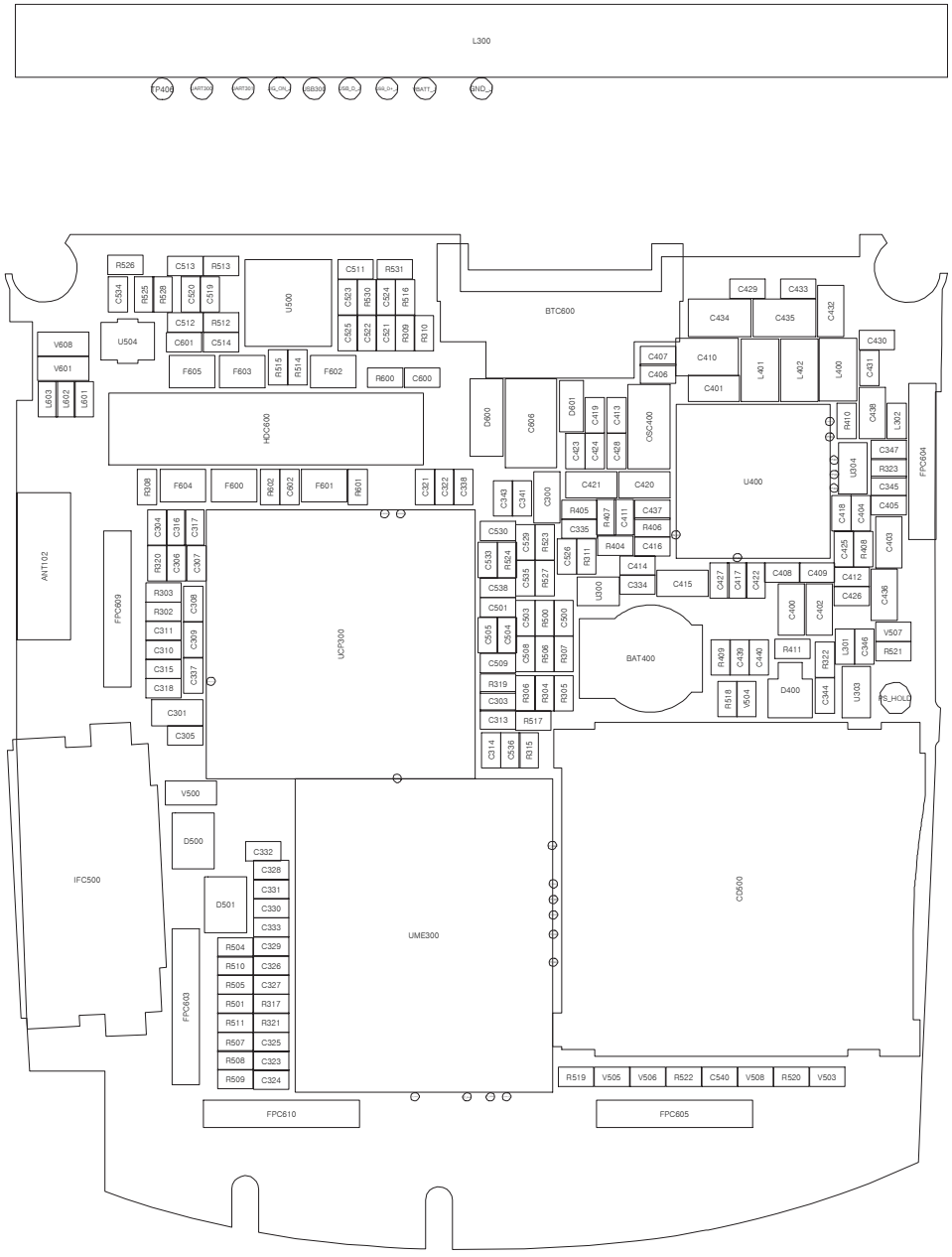
9-2. Main bottom



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3. Product Function

Main Function

- Bluetooth Class 2
- Extended GSM 900MHz & DCS1800MHz & PCS1900MHz &WCDMA 2100MHz Quad Band
- Slide type
- Color LCD (2.1" QVGA 37.04×51.62×2.05t_max)
- Built-in 2 Mega pixel and QCIF Camera
- Built-in MP3 Player
- GPRS Multi-slot Class 12
- Downloadable Game via JAVA
- Sending Photo & Video by MMS or E-Mail
- External Memory Card Socket (T-flash)
- 880mAh Battery

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11. Reference data

11-1. Reference Abbreviate

AAC: Advanced Audio Coding.
AVC : Advanced Video Coding.
BER : Bit Error Rate
BPSK: Binary Phase Shift Keying
CA : Conditional Access
CDM : Code Division Multiplexing
C/I : Carrier to Interference
DMB : Digital Multimedia Broadcasting
EN **:** European Standard
ES **:** Elementary Stream
ETSI: European Telecommunications Standards Institute
MPEG: Moving Picture Experts Group
PN : Pseudo-random Noise
PS : Pilot Symbol
QPSK: Quadrature Phase Shift Keying
RS : Reed-Solomon
SI : Service Information
TDM : Time Division Multiplexing
TS **:** Transport Stream

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1. Safety Precautions

1-1. Repair Precaution

- Repair in Shield Box, during detailed tuning.
  Take specially care of tuning or test,
  because specipicty of cellular phone is sensitive for surrounding interference(RF noise).

- Be careful to use a kind of magnetic object or tool,
  because performance of parts is damaged by the influence of manetic force.

- Surely use a standard screwdriver when you disassemble this product,
  otherwise screw will be worn away.

- Use a thicken twisted wire when you measure level.
  A thicken twisted wire has low resistance, therefore error of measurement is few.

- Repair after separate Test Pack and Set because for short danger (for example an overcurrent and furious flames of parts etc) when you repair board in condition of connecting Test Pack and tuning on.

- Take specially care of soldering, because Land of PCB is small and weak in heat.

- Surely tune on/off while using AC power plug, because a repair of battery charger is dangerous when tuning ON/OFF PBA and Connector after disassembing charger.

- Don't use as you pleases after change other material than replacement registered on SEC System.
  Otherwise engineer in charge isn't charged with problem that you don't keep this rules.

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1-2. ESD(Electrostatically Sensitive Devices) Precaution

Several semiconductor may be damaged easilly by static electricity. Such parts are called by ESD(Electrostatically Sensitive Devices), for example IC,BGA chip etc. Read Precaution below. You can prevent from ESD damage by static electricity.

- Remove static electricity remained your body before you touch semiconductor or parts with semiconductor. There are ways that you touch an earthed place or wear static electricity prevention string on wrist.

- Use earthed soldering steel when you connect or disconnect ESD.

- Use soldering removing tool to break static electricity. , otherwise ESD will be damaged by static electricity.

- Don't unpack until you set up ESD on product. Because most of ESD are packed by box and aluminum plate to have conductive power,they are prevented from static electricity.

- You must maintain electric contact between ESD and place due to be set up until ESD is connected completely to the proper place or a circuit board.

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6. MAIN Electrical Parts List

0403-001547	D600	DIODE-ZENER
0404-001172	D401	DIODE-SCHOTTKY
0406-001201	D601	DIODE-TVS
0406-001201	V601	DIODE-TVS
0406-001201	V603	DIODE-TVS
0406-001201	V608	DIODE-TVS
0406-001201	V609	DIODE-TVS
0406-001203	V500	DIODE-TVS
0406-001208	D500	DIODE-TVS
0406-001208	D501	DIODE-TVS
0407-001002	D400	DIODE-ARRAY
0504-000168	Q400	TR-DIGITAL
0504-001151	Q200	TR-DIGITAL
1001-001428	U305	IC-ANALOG MULTIPLEX
1001-001428	U404	IC-ANALOG MULTIPLEX
1001-001447	U504	IC-ANALOG MULTIPLEX
1009-001035	U303	IC-HALL EFFECT S/W
1009-001035	U304	IC-HALL EFFECT S/W
1108-000172	UME300	IC-MCP
1201-002461	U201	IC-POWER AMP
1201-002671	U102	IC-POWER AMP
1201-002692	U500	IC-AUDIO AMP
1203-004776	U602	IC-POSI.FIXED REG.
1203-004778	U400	IC-POWER SUPERVISOR
1203-004838	U402	IC-BATTERY
1205-003281	UCP300	IC-MODEM
1205-003341	U202	IC-TRANSCEIVER
1209-001712	U300	IC-SENSOR
1405-001082	V605	VARISTOR
1405-001082	V606	VARISTOR
1405-001082	V607	VARISTOR
1405-001133	V501	VARISTOR
1405-001133	V502	VARISTOR
1405-001167	V503	VARISTOR
1405-001167	V504	VARISTOR
1405-001167	V505	VARISTOR
1405-001167	V506	VARISTOR
1405-001167	V507	VARISTOR

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1405-001167	V508	VARISTOR
2007-000138	R318	R-CHIP
2007-000138	R412	R-CHIP
2007-000138	R526	R-CHIP
2007-000138	R602	R-CHIP
2007-000140	R508	R-CHIP
2007-000140	R509	R-CHIP
2007-000140	R510	R-CHIP
2007-000144	R409	R-CHIP
2007-000148	R304	R-CHIP
2007-000148	R307	R-CHIP
2007-000148	R314	R-CHIP
2007-000148	R315	R-CHIP
2007-000148	R316	R-CHIP
2007-000148	R317	R-CHIP
2007-000148	R320	R-CHIP
2007-000148	R511	R-CHIP
2007-000148	R530	R-CHIP
2007-000148	R531	R-CHIP
2007-000149	R200	R-CHIP
2007-000151	R529	R-CHIP
2007-000157	R410	R-CHIP
2007-000157	R518	R-CHIP
2007-000157	R519	R-CHIP
2007-000157	R520	R-CHIP
2007-000157	R521	R-CHIP
2007-000157	R522	R-CHIP
2007-000162	R413	R-CHIP
2007-000162	R415	R-CHIP
2007-000162	R501	R-CHIP
2007-000162	R516	R-CHIP
2007-000165	R411	R-CHIP
2007-000165	R414	R-CHIP
2007-000165	R517	R-CHIP
2007-000170	R300	R-CHIP
2007-000171	C103	R-CHIP
2007-000171	L100	R-CHIP
2007-000171	R103	R-CHIP

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2007-000171	R502	R-CHIP
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2007-007014	R308	R-CHIP
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2007-007317	R527	R-CHIP
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2007-007586	R311	R-CHIP
2007-008298	R211	R-CHIP
2203-000138	C238	C-CER,CHIP
2203-000233	C106	C-CER,CHIP
2203-000233	C203	C-CER,CHIP
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2203-000679	C541	C-CER,CHIP
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2203-002709	C343	C-CER,CHIP

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2203-005482	C104	C-CER,CHIP
2203-005482	C136	C-CER,CHIP
2203-005482	C328	C-CER,CHIP
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2203-005482	C331	C-CER,CHIP
2203-005482	C338	C-CER,CHIP
2203-005482	C405	C-CER,CHIP
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2203-005482	C408	C-CER,CHIP
2203-005482	C409	C-CER,CHIP
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2703-002208	L209	INDUCTOR-SMD
2703-002267	L109	INDUCTOR-SMD
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2703-002268	L204	INDUCTOR-SMD
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2703-002368	C250	INDUCTOR-SMD
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2703-002597	L200	INDUCTOR-SMD
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2703-002708	L112	INDUCTOR-SMD
2703-003205	L601	INDUCTOR-SMD
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2703-003205	L603	INDUCTOR-SMD
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2809-001323	TCX100	OSCILLATOR-VCTCXO
2901-001409	F600	FILTER-EMI SMD
2901-001409	F603	FILTER-EMI SMD
2901-001409	F604	FILTER-EMI SMD
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2901-001422	F601	FILTER-EMI SMD

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2904-001703	F102	FILTER-SAW
2904-001769	F200	FILTER-SAW
2904-001789	F201	FILTER-SAW
2910-000024	F202	DUPLEXER-SAW
2911-000096	F101	DUPLEXER-FEM
3301-001342	L301	BEAD-SMD
3301-001342	L302	BEAD-SMD
3705-001358	RFS100	CONNECTOR-COAXIAL
3709-001448	CD500	CONNECTOR-CARD EDGE
3709-001487	SIM500	CONNECTOR-CARD EDGE
3710-002523	IFC500	SOCKET-INTERFACE
3711-006329	BTC600	HEADER-BATTERY
3711-006521	HDC600	CONNECTOR-HEADER
3711-006782	HDC601	HEADER-BOARD TO BOARD
4202-001435	ANT102	ANTENNA-CHIP
4302-001180	BAT400	BATTERY-LI(2ND)
4709-001399	F203	COUPLER-DIRECTION
4709-001546	F100	BLUETOOTH MODULE
GH70-02640A	FPC600	ICT SHIELD-CAN CLIP
GH70-02640A	FPC601	ICT SHIELD-CAN CLIP
GH70-02640A	FPC602	ICT SHIELD-CAN CLIP
GH70-02640A	FPC603	ICT SHIELD-CAN CLIP
GH70-02640A	FPC604	ICT SHIELD-CAN CLIP
GH70-02640A	FPC605	ICT SHIELD-CAN CLIP
GH70-02640A	FPC606	ICT SHIELD-CAN CLIP
GH70-02640A	FPC607	ICT SHIELD-CAN CLIP
GH70-02640A	FPC608	ICT SHIELD-CAN CLIP
GH70-02640A	FPC609	ICT SHIELD-CAN CLIP
GH70-02640A	FPC610	ICT SHIELD-CAN CLIP

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