

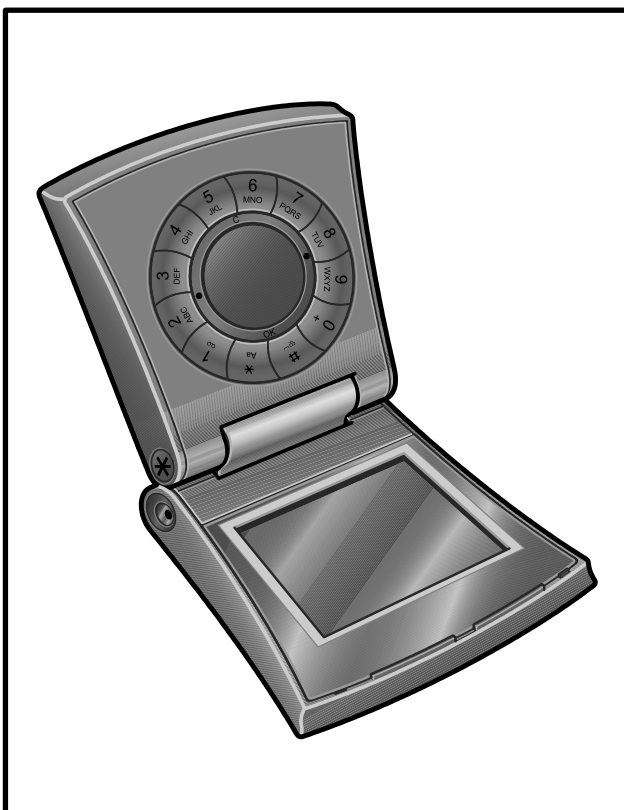
SAMSUNG

GSM TELEPHONE

SGH-E910

SERVICE *Manual*

GSM TELEPHONE



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1. SGH-E910 Specification

1-1. GSM General Specification

	GSM900 Phase 1	EGSM 900 Phase 2	DCS1800 Phase 1	PCS1900
Freq. Band[MHz] Uplink/Downlink	890~915 935~960	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990
ARFCN range	1~124	0~124 & 975~1023	512~885	512~810
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz
Mod. Bit rate/ Bit Period	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us
Time Slot Period/Frame Period	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms
Modulation	0.3GMSK	0.3GMSK	0.3GMSK	0.3GMSK
MS Power	33dBm~13dBm	33dBm~5dBm	30dBm~0dBm	30dBm~0dBm
Power Class	5pcl ~ 15pcl	5pcl ~ 19pcl	0pcl ~ 15pcl	0pcl ~ 15pcl
Sensitivity	-102dBm	-102dBm	-100dBm	-100dBm
TDMA Mux	8	8	8	8
Cell Radius	35Km	35Km	2Km	-

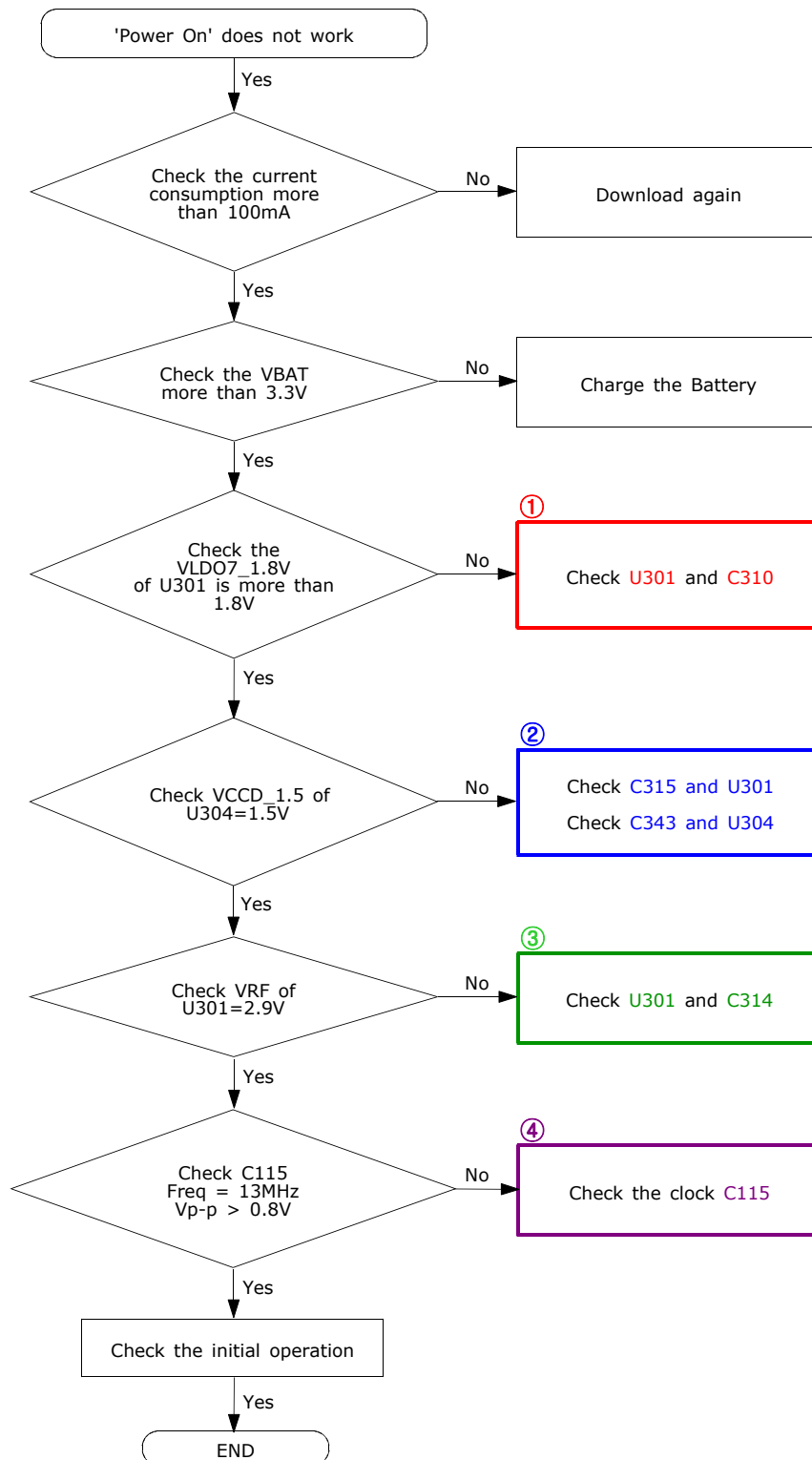
1-2. GSM Tx Power Class

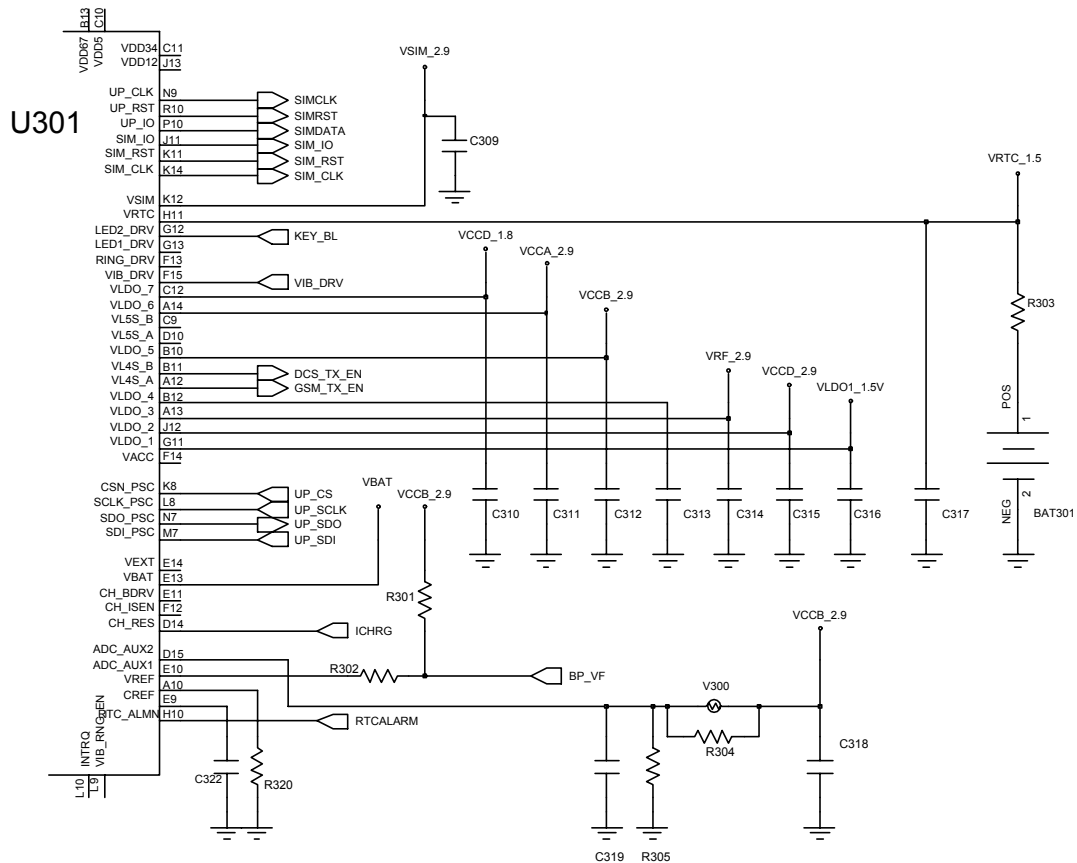
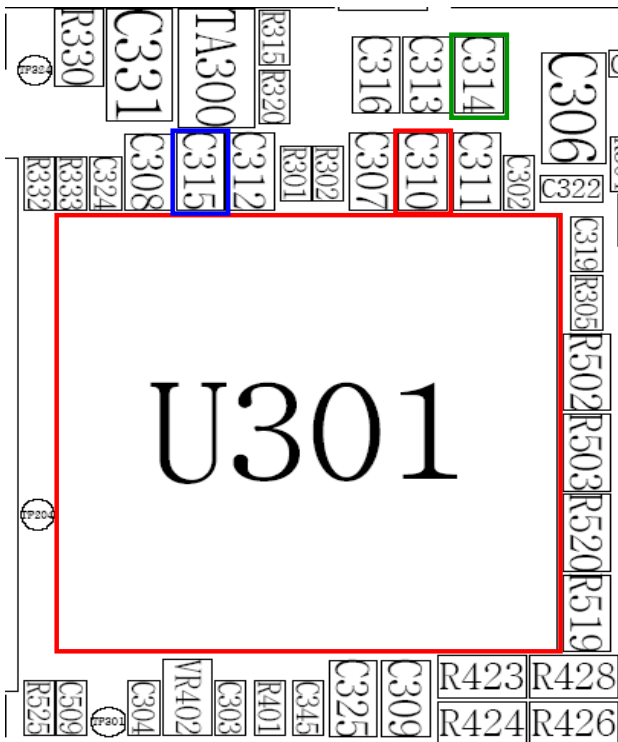
TX Power control level	GSM900	TX Power control level	DCS1800	TX Power control level	PCS1900
5	33±2 dBm	0	30±3 dBm	0	30±3 dBm
6	31±2 dBm	1	28±3 dBm	1	28±3 dBm
7	29±2 dBm	2	26±3 dBm	2	26±3 dBm
8	27±2 dBm	3	24±3 dBm	3	24±3 dBm
9	25±2 dBm	4	22±3 dBm	4	22±3 dBm
10	23±2 dBm	5	20±3 dBm	5	20±3 dBm
11	21±2 dBm	6	18±3 dBm	6	18±3 dBm
12	19±2 dBm	7	16±3 dBm	7	16±3 dBm
13	17±2 dBm	8	14±3 dBm	8	14±3 dBm
14	15±2 dBm	9	12±4 dBm	9	12±4 dBm
15	13±2 dBm	10	10±4 dBm	10	10±4 dBm
16	11±3 dBm	11	8±4dBm	11	8±4dBm
17	9±3dBm	12	6±4 dBm	12	6±4 dBm
18	7±3 dBm	13	4±4 dBm	13	4±4 dBm
19	5±3 dBm	14	2±5 dBm	14	2±5 dBm
		15	0±5 dBm	15	0±5 dBm

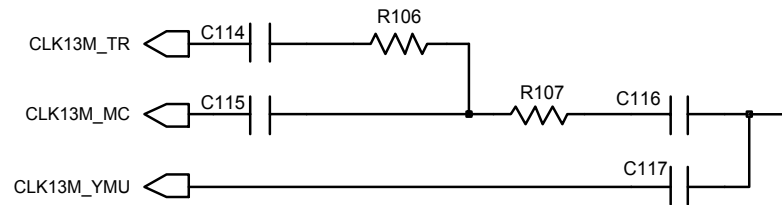
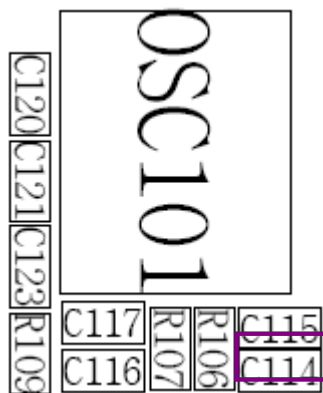
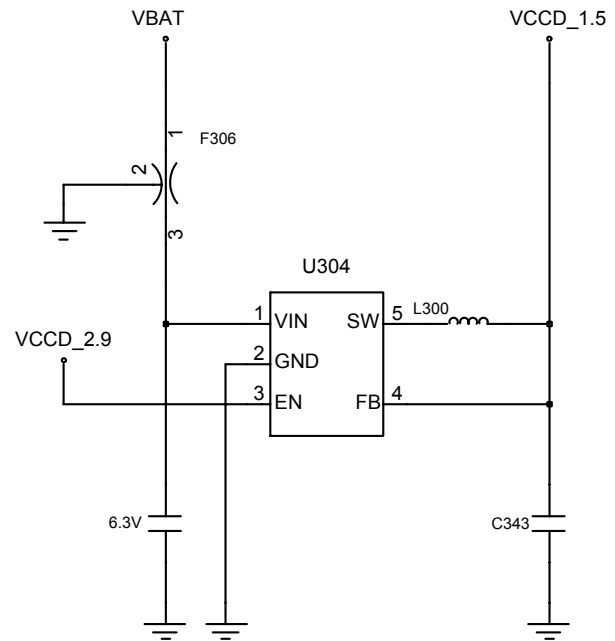
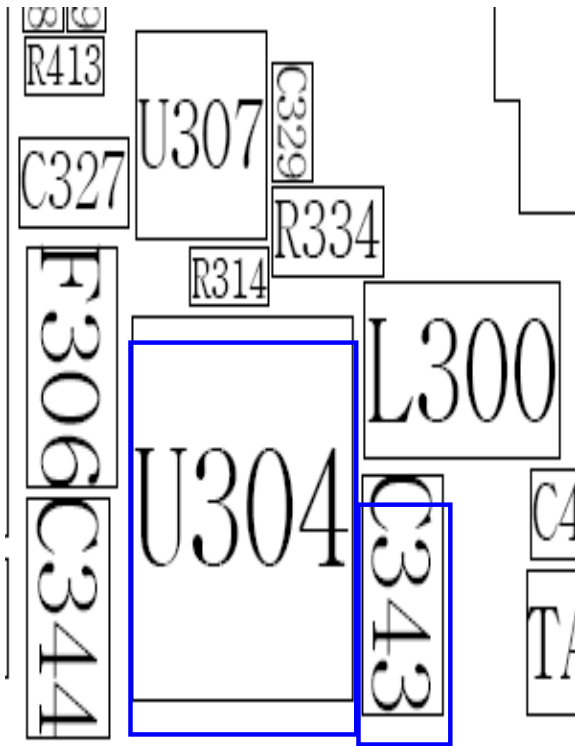
2. SGH-E910 Flow Chart of Troubleshooting

2-1 BASEBAND

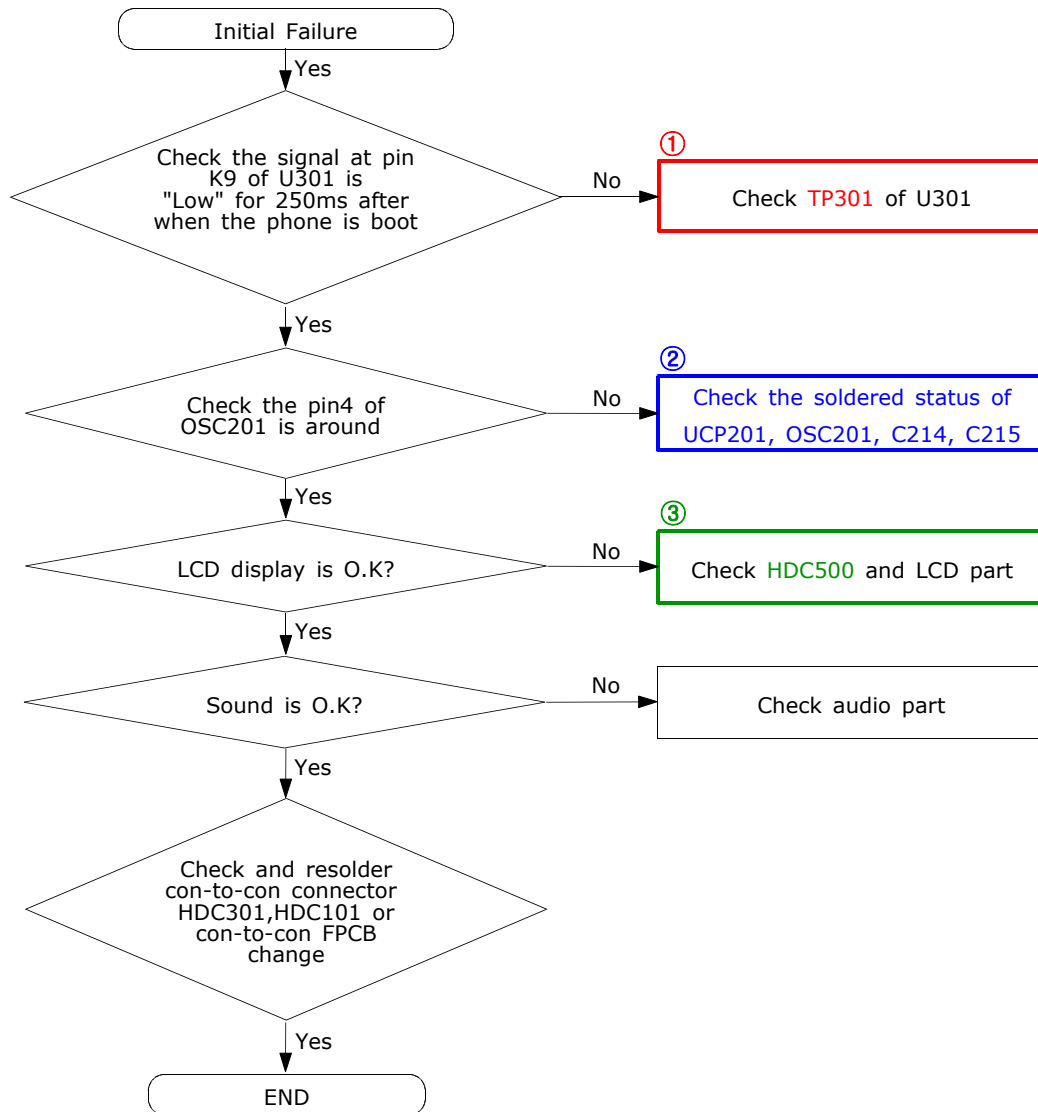
2-1-1. Power ON

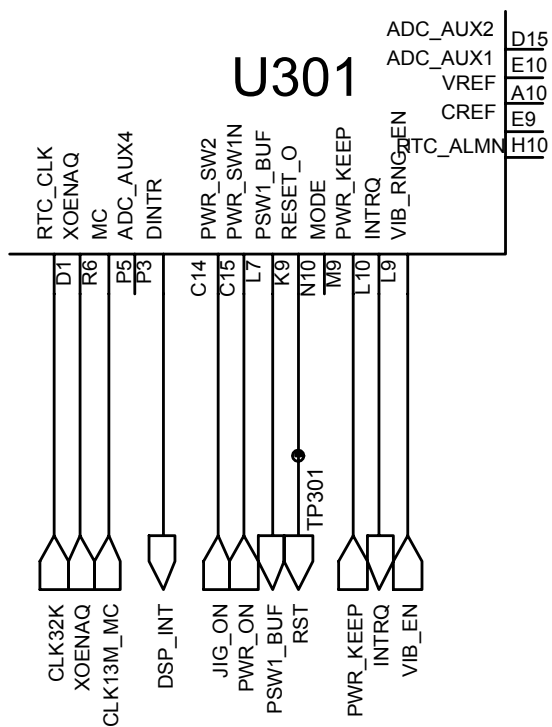
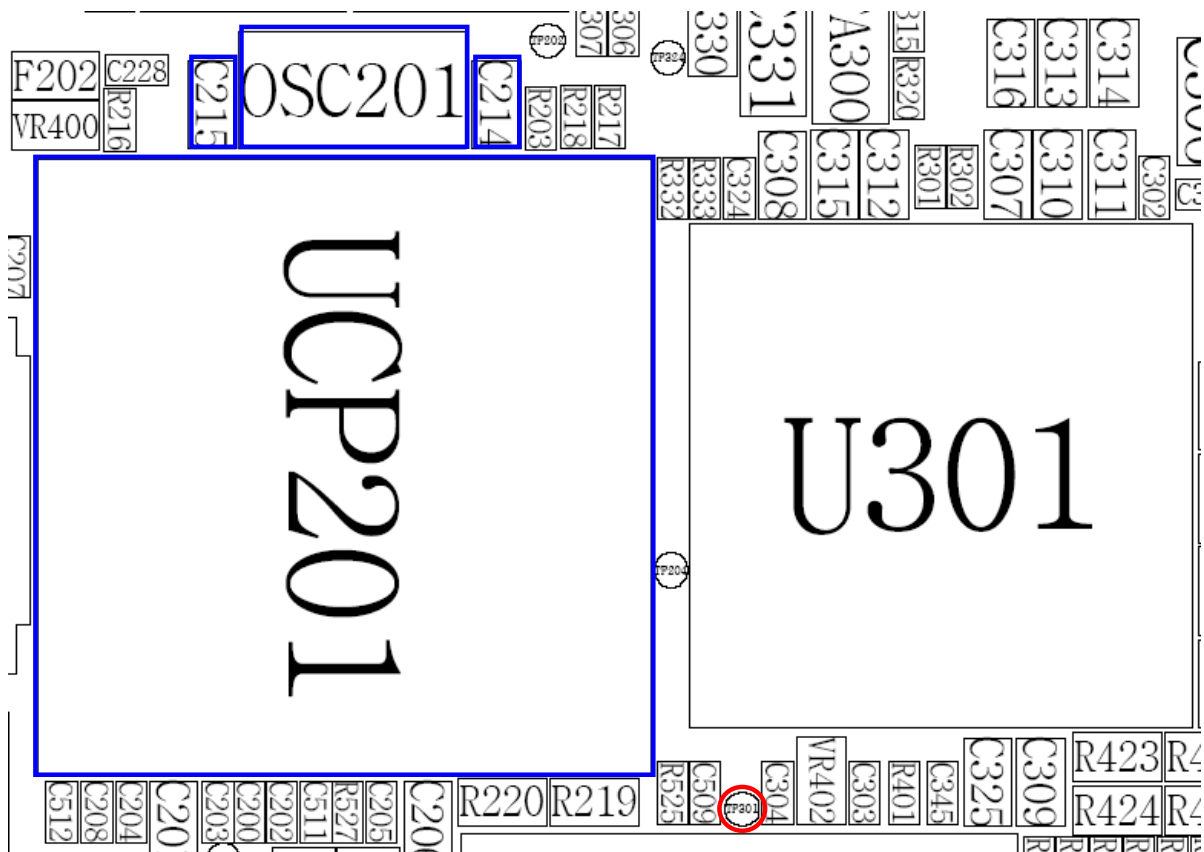


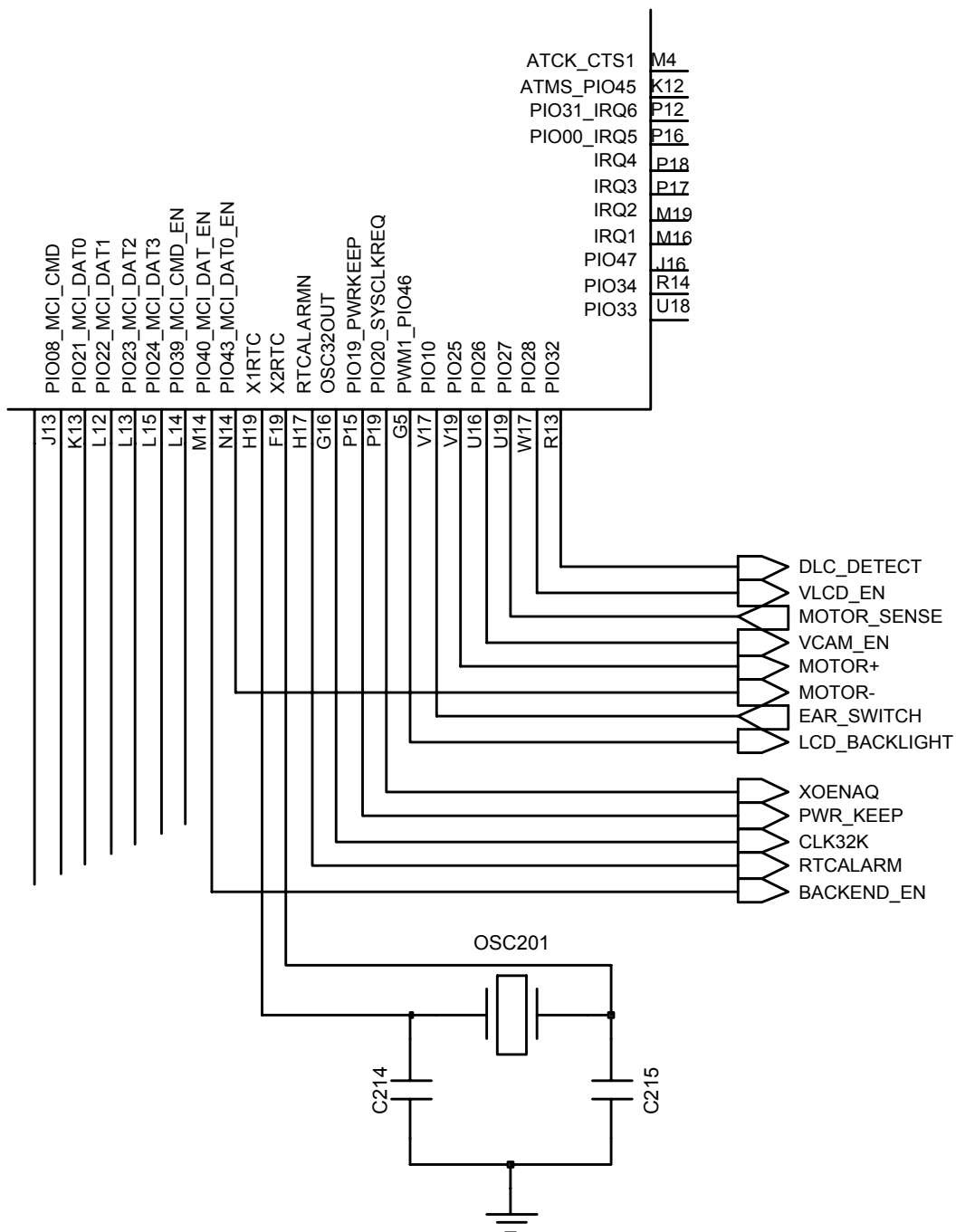


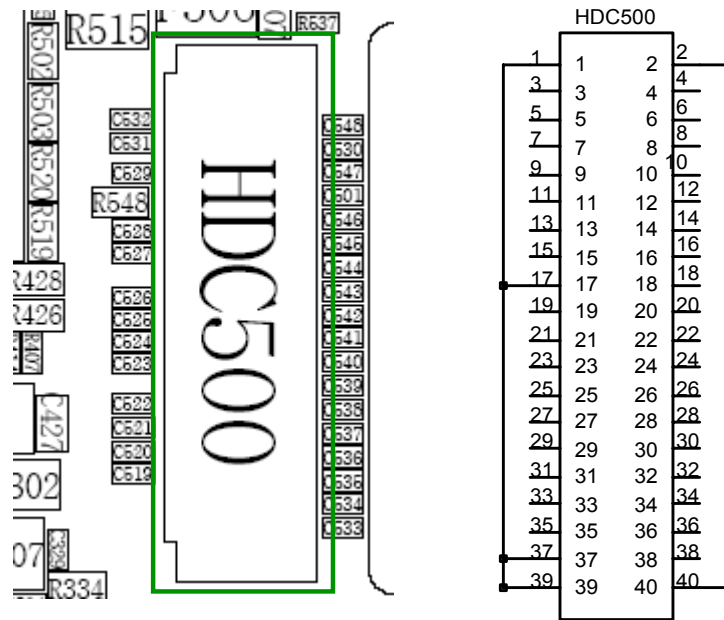


2-1-2. Initial

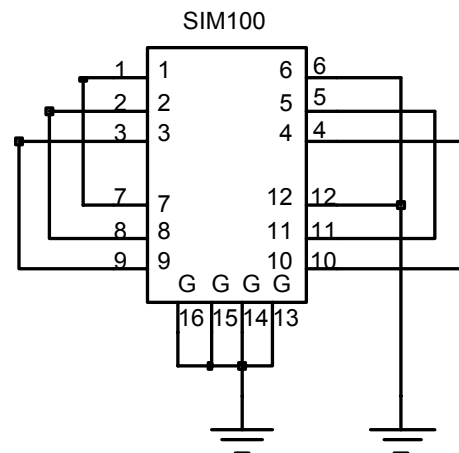
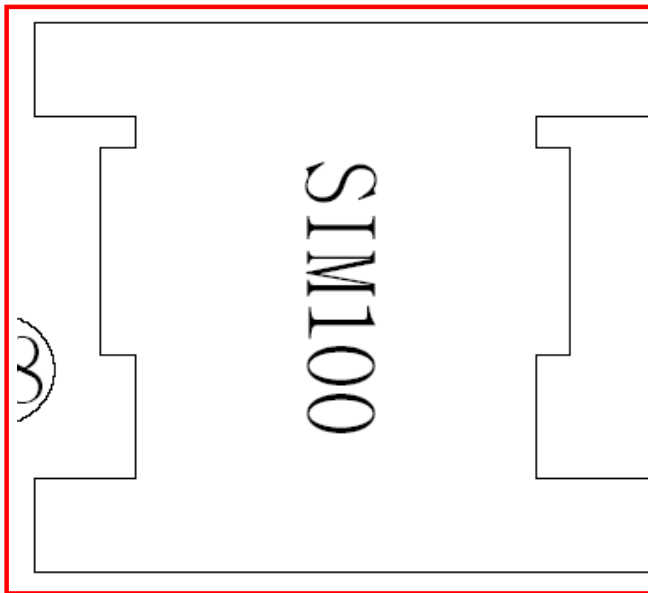
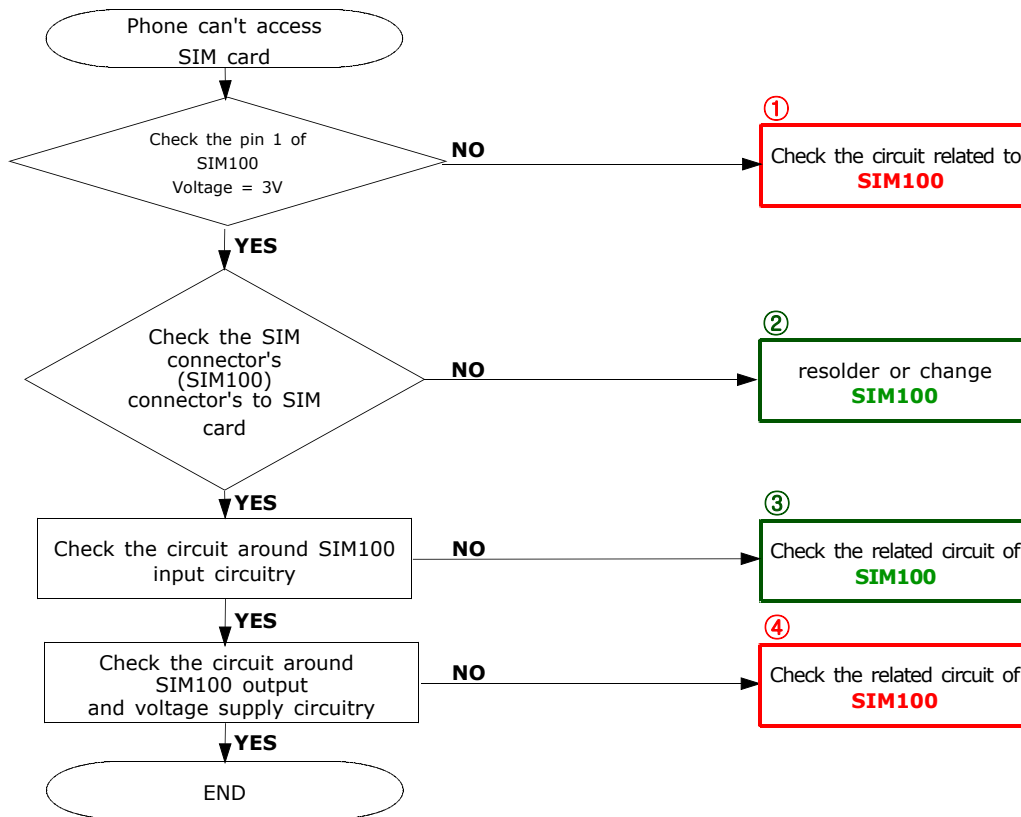




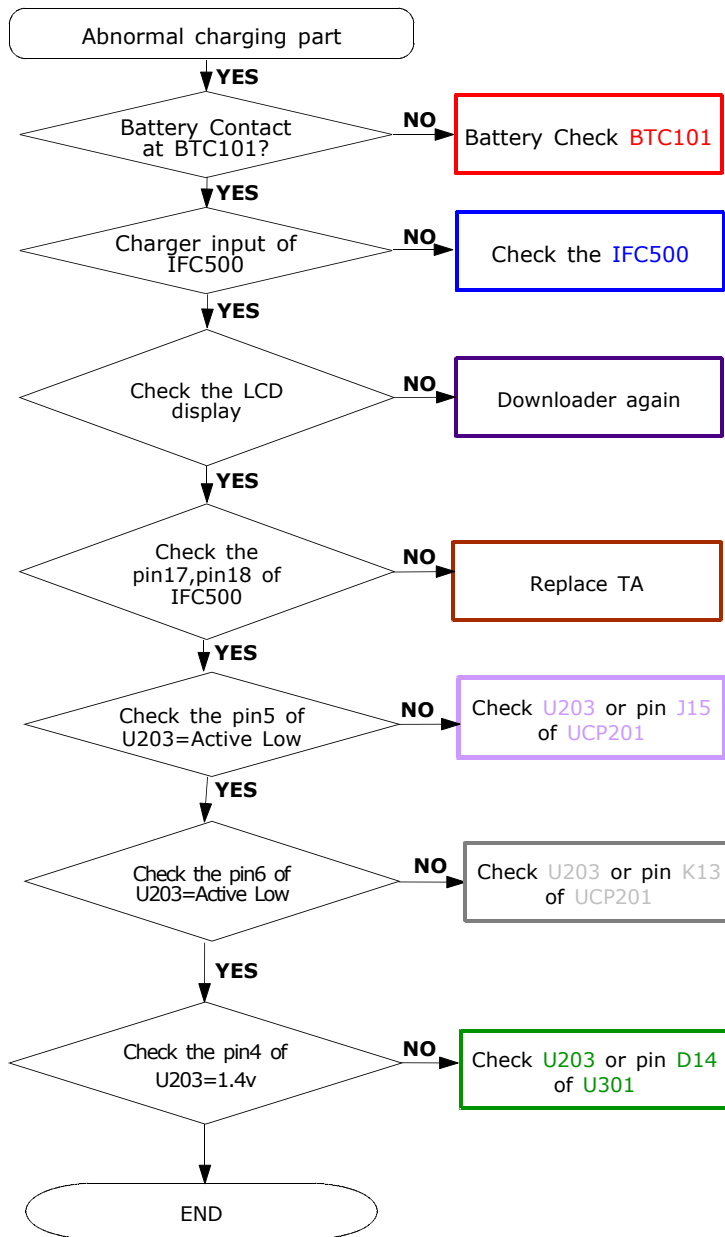


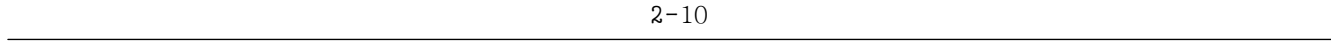


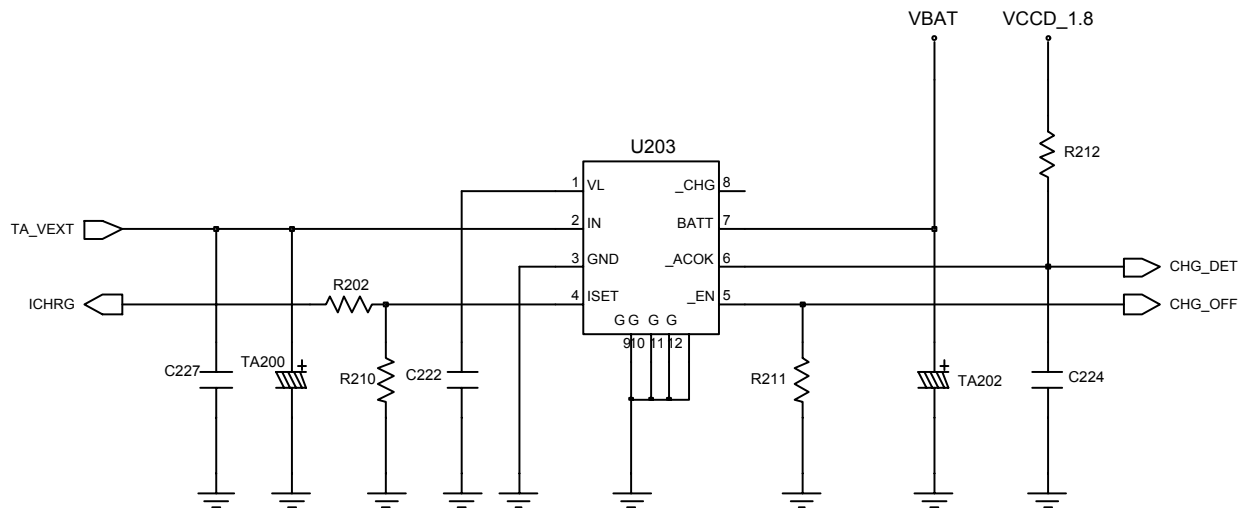
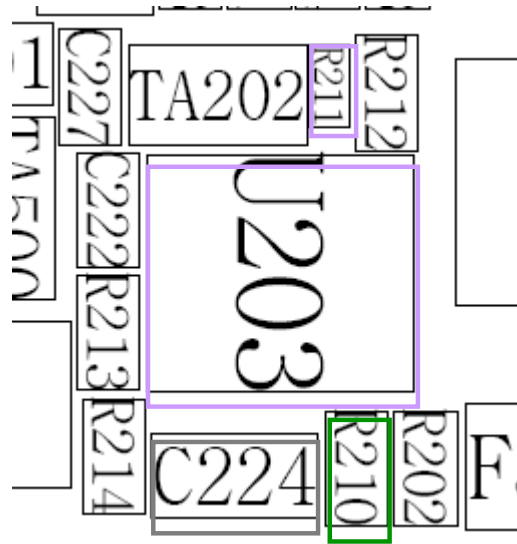
2-1-3. Sim Part



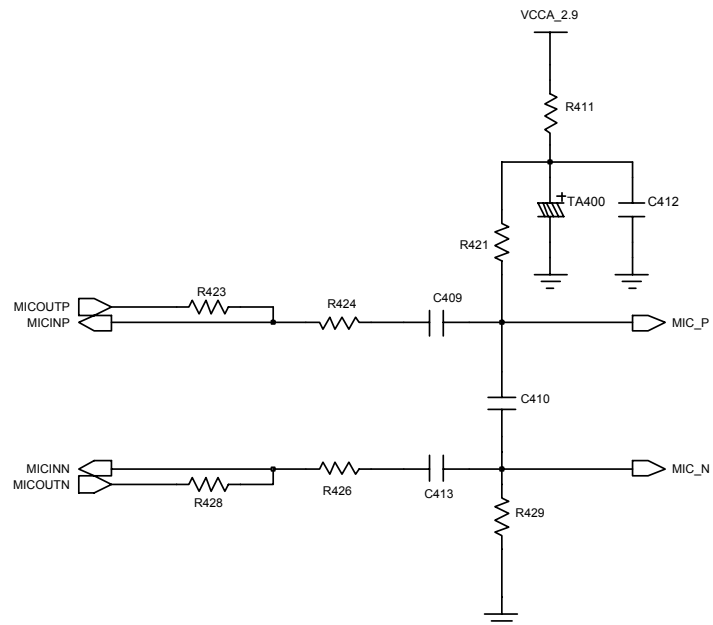
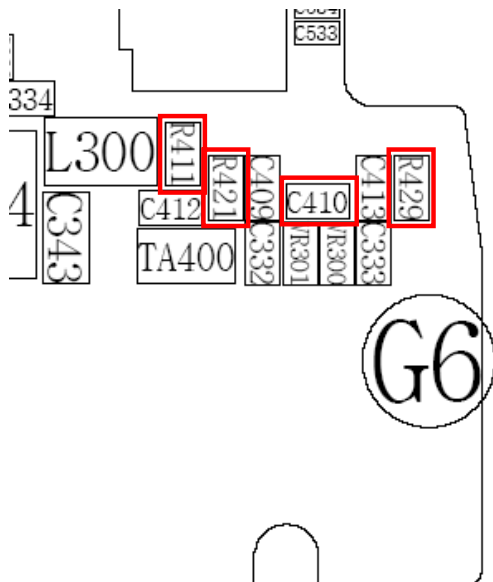
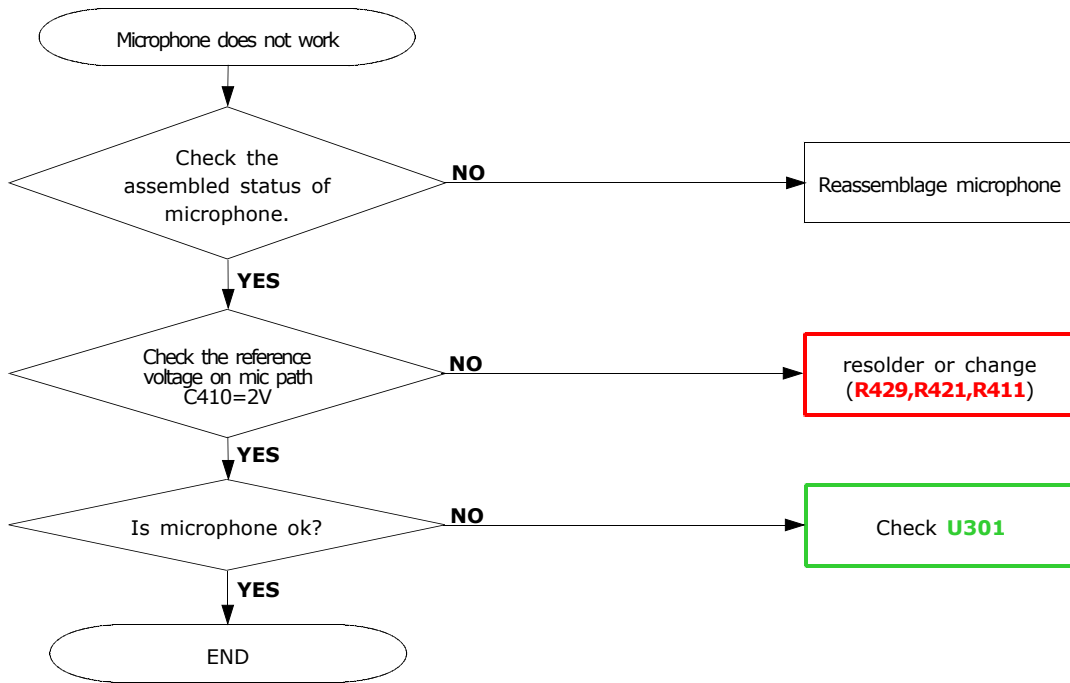
2-1-4. Charging Part



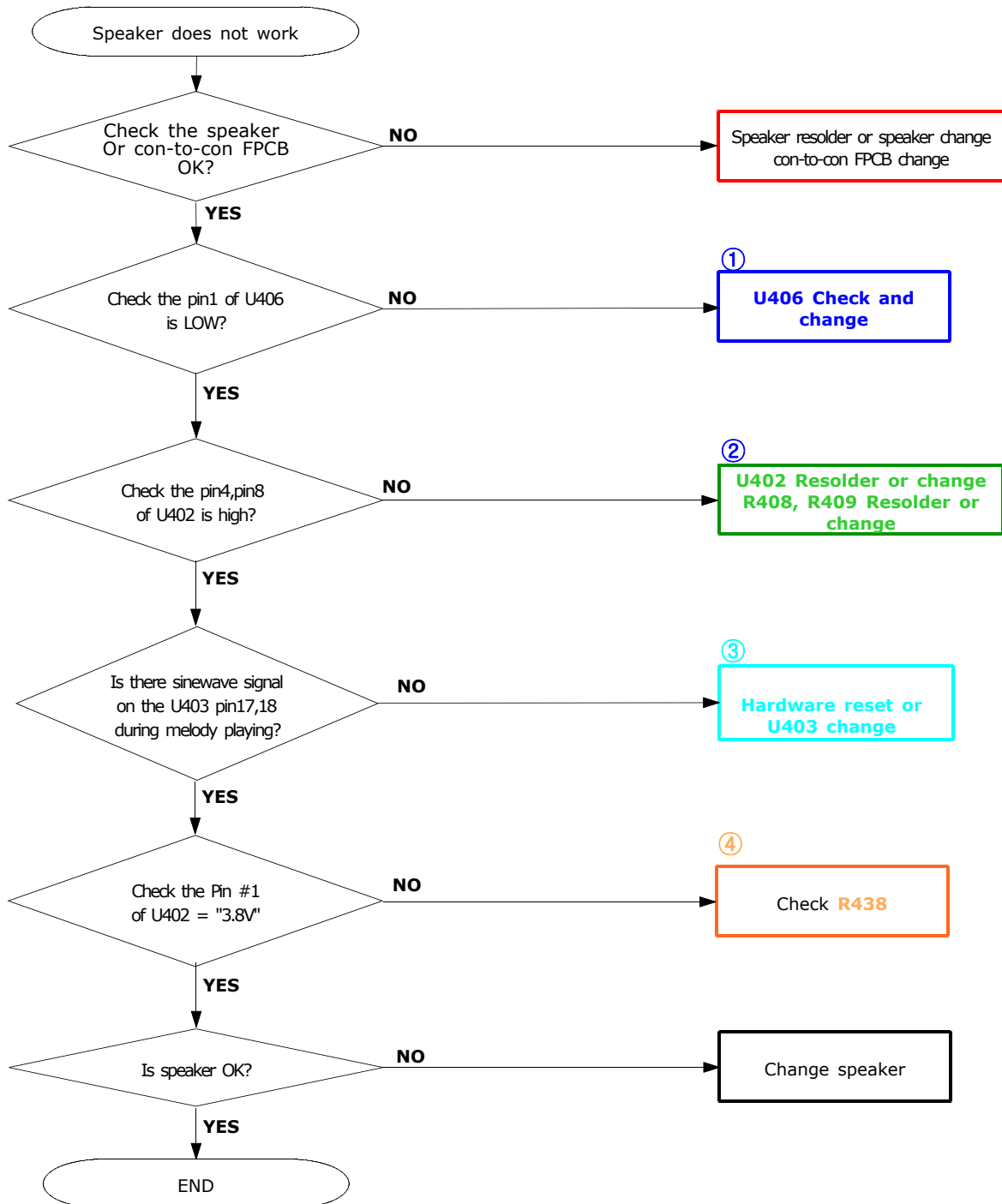


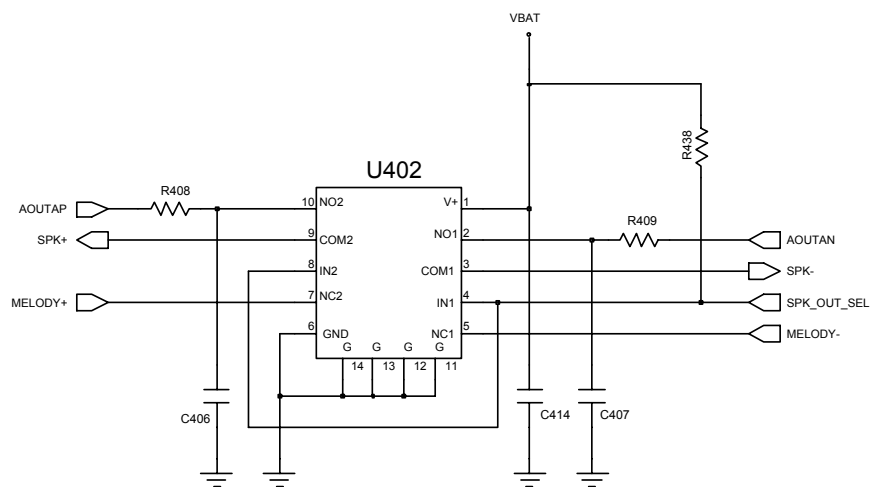
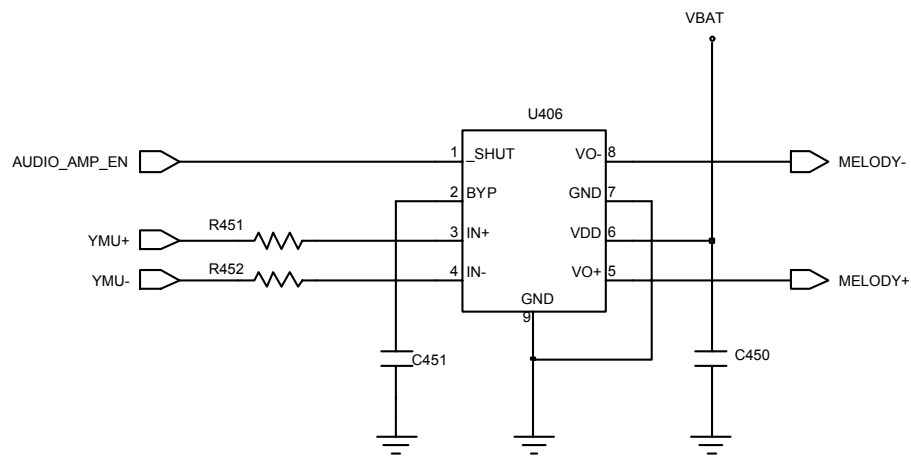
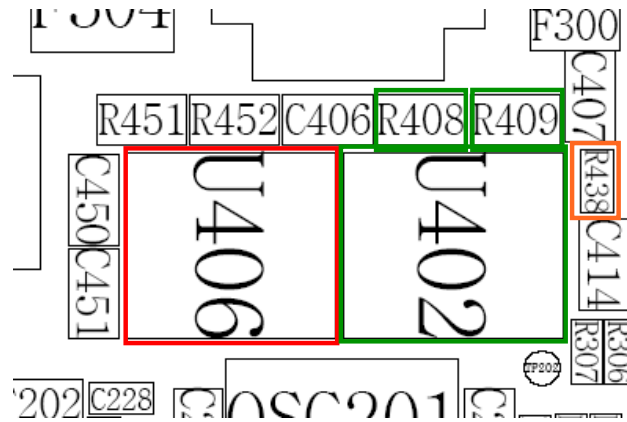


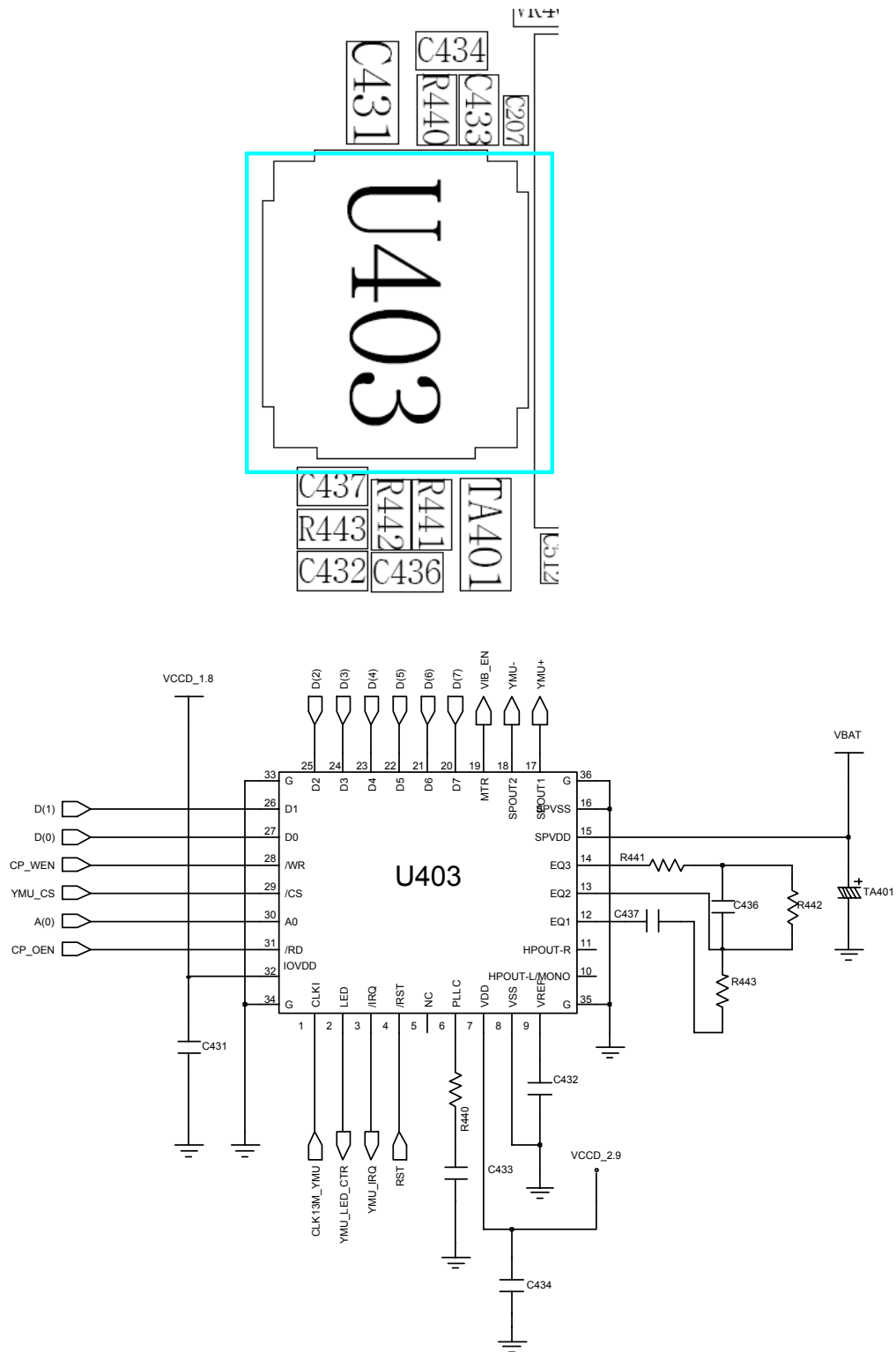
2-1-5. Microphone Part



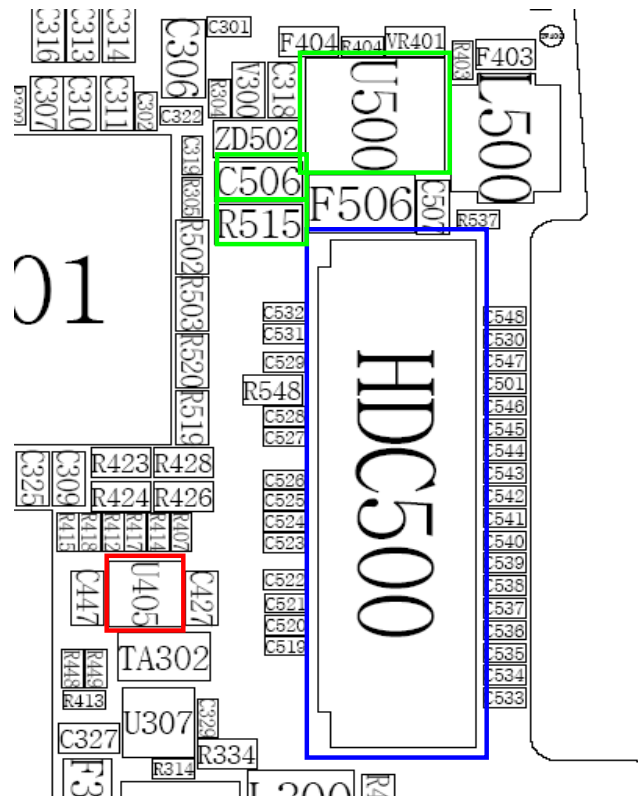
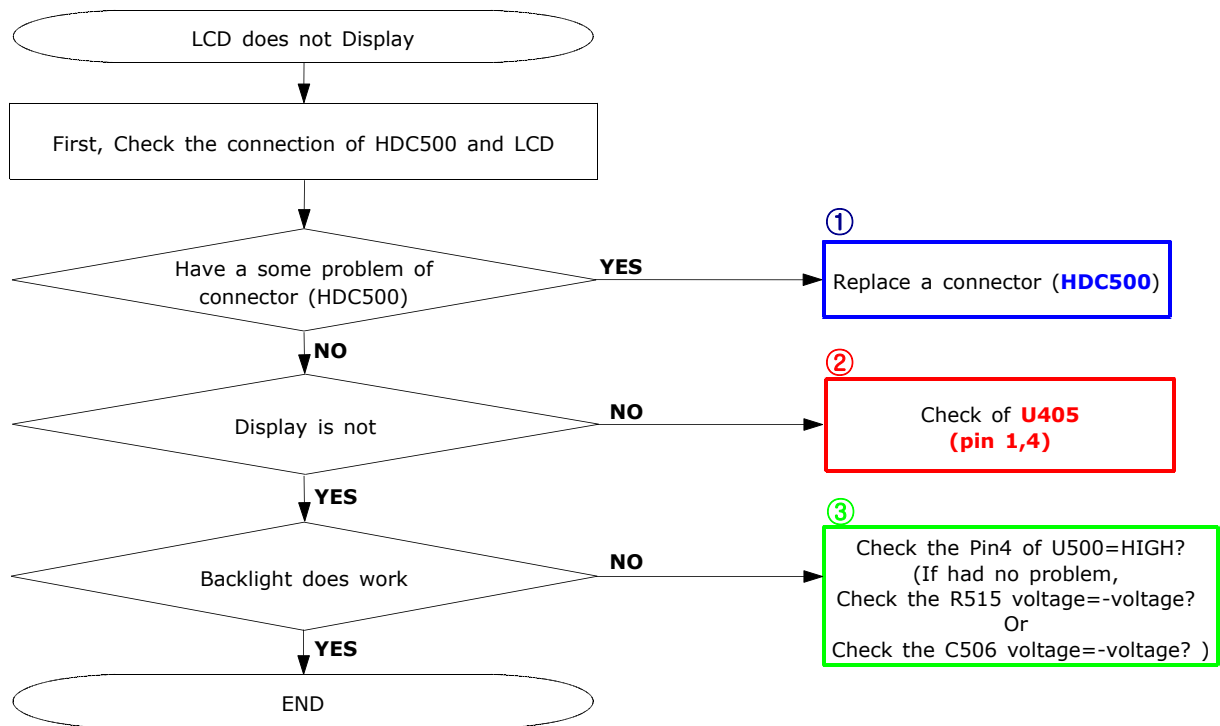
2-1-6. Speaker Part

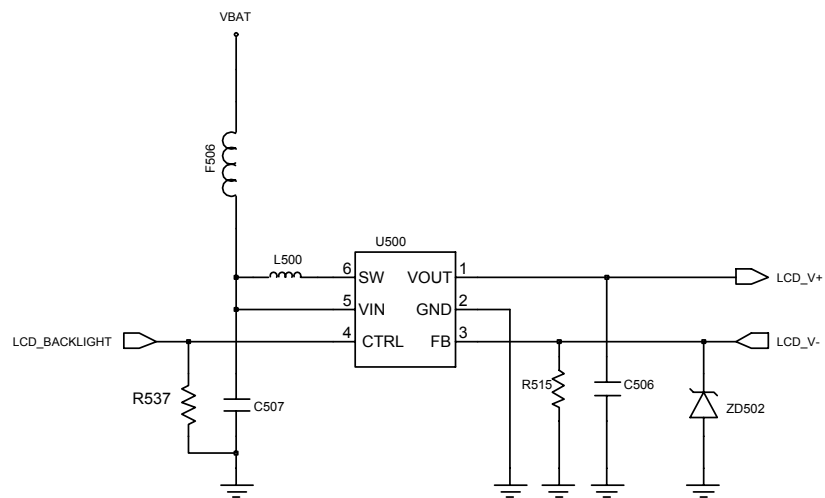
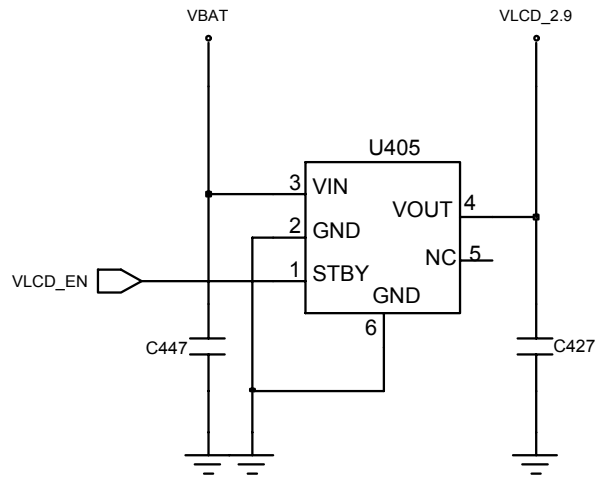
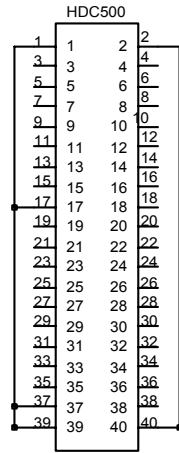


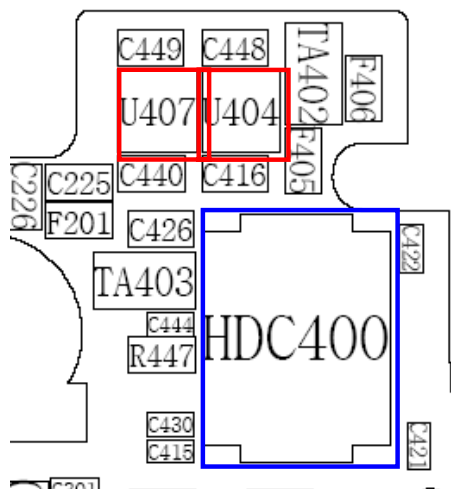
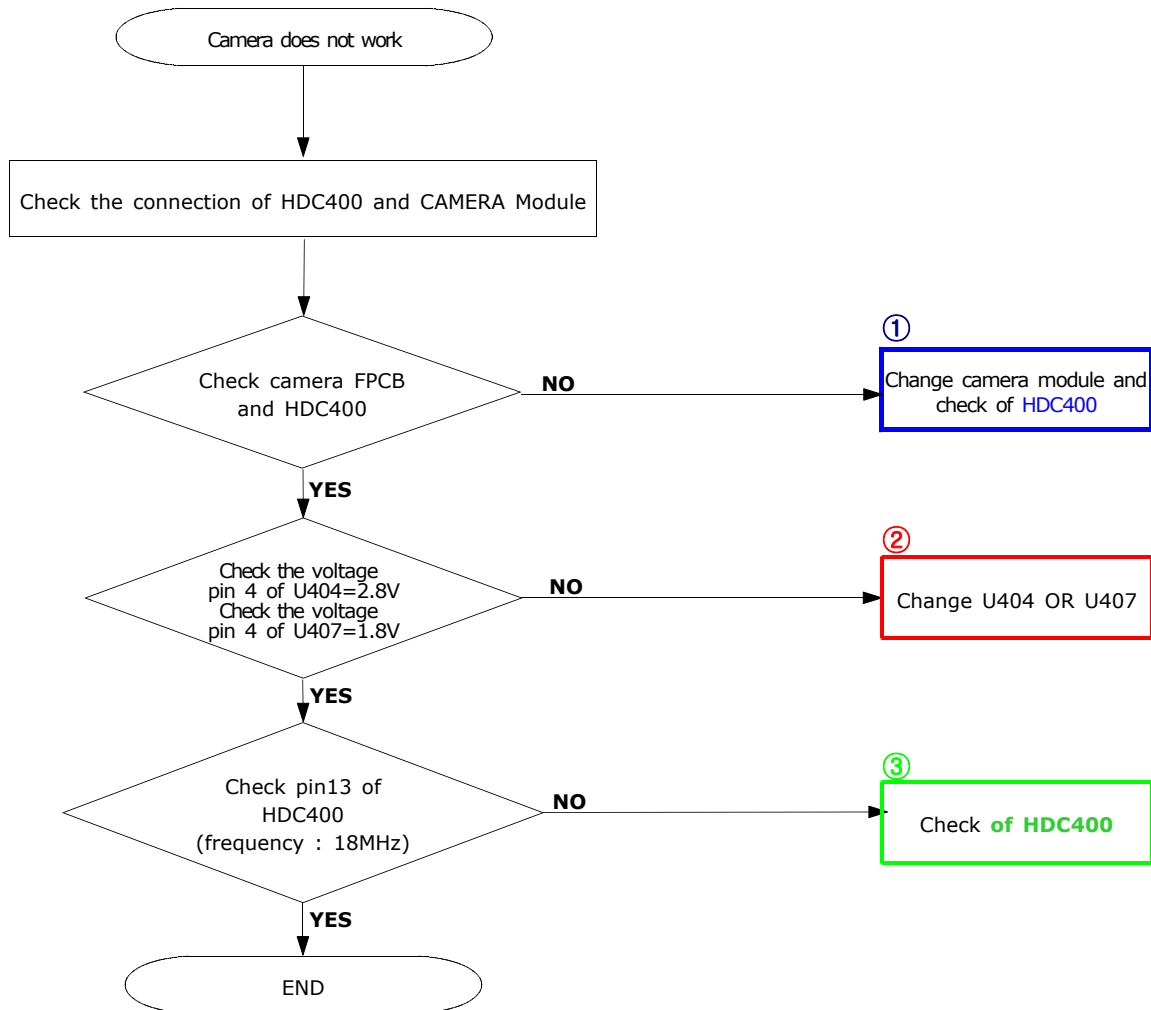


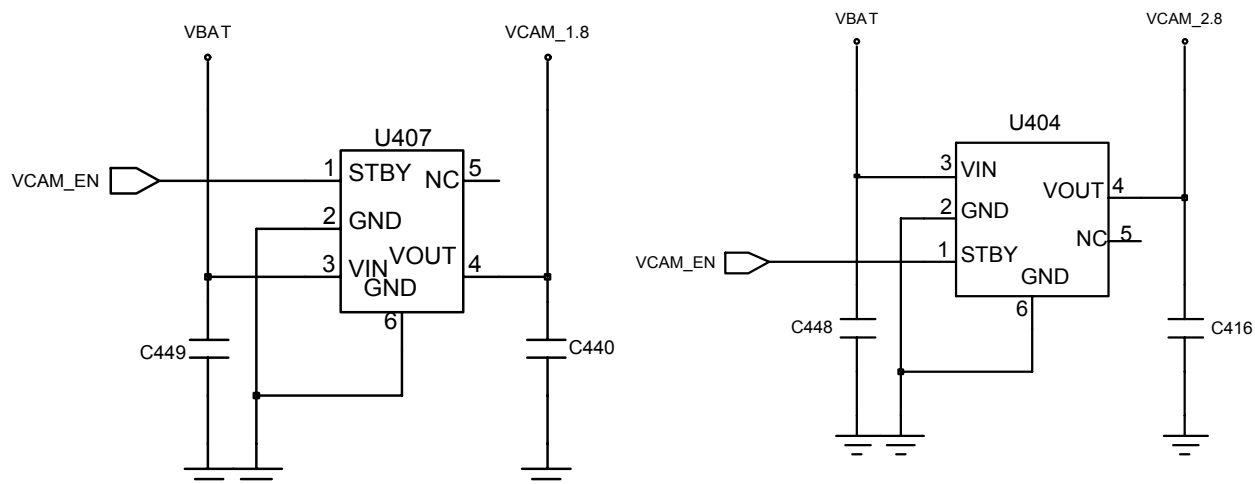
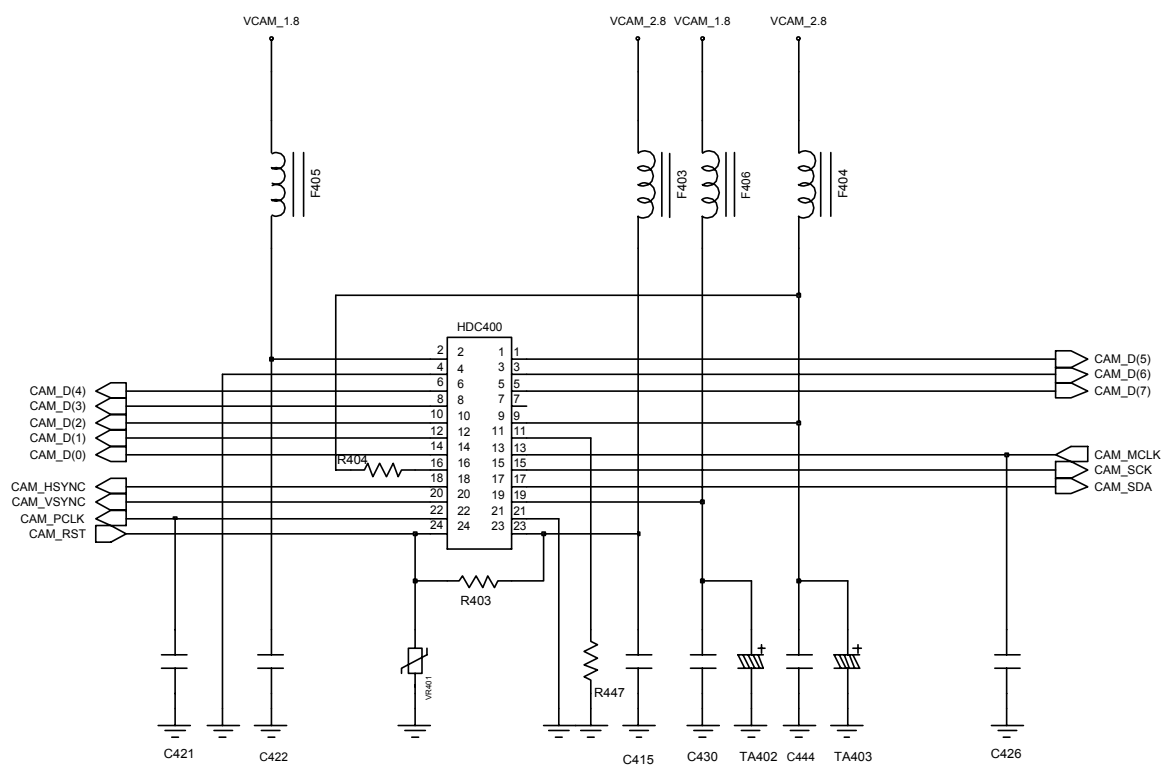


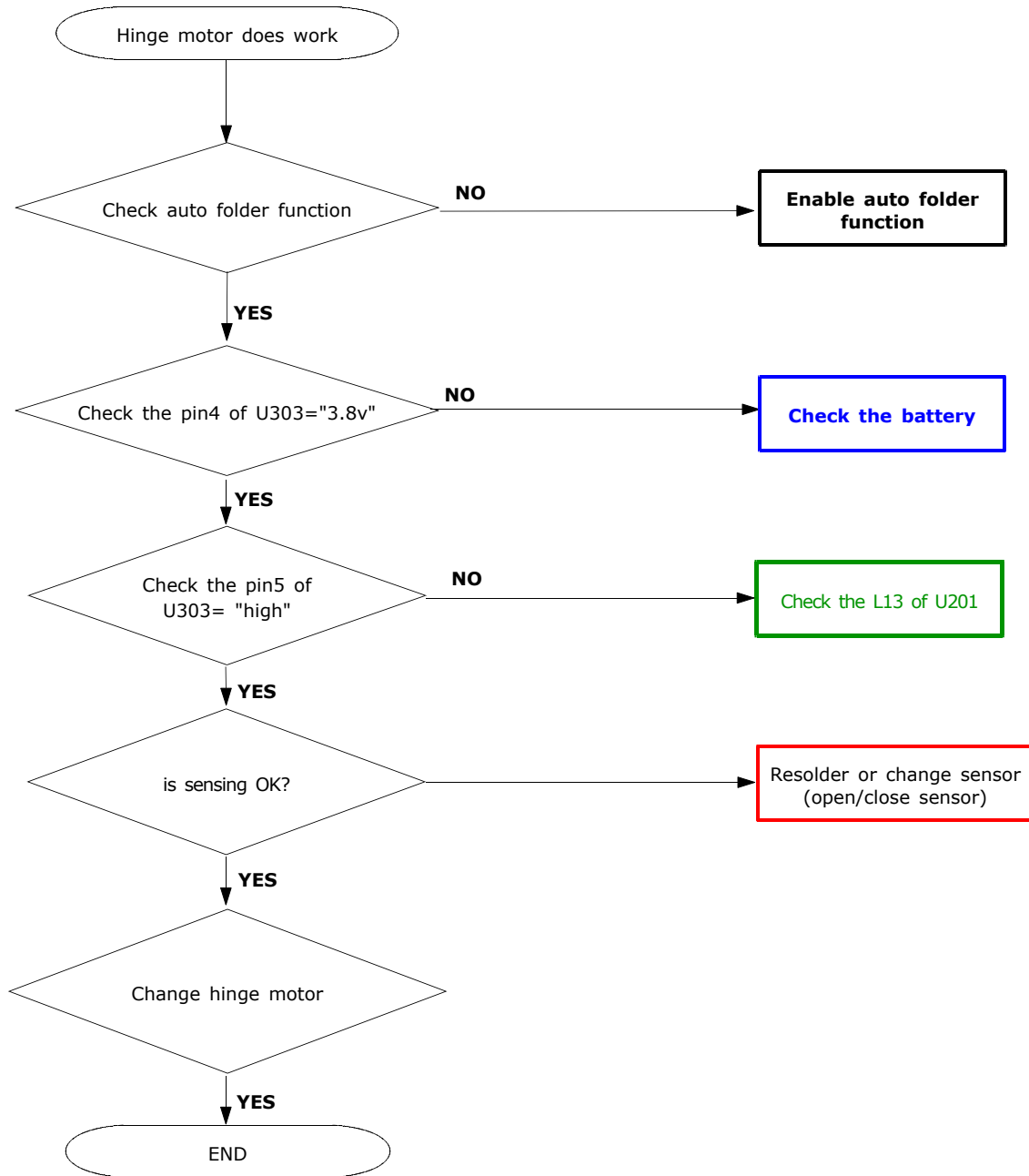
2-1-7. LCD

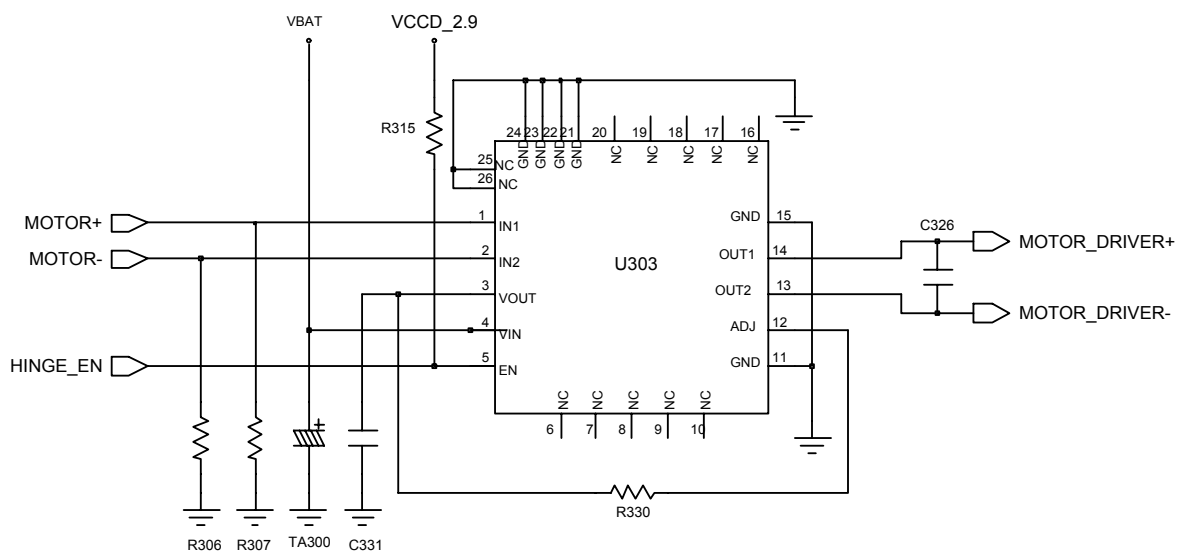
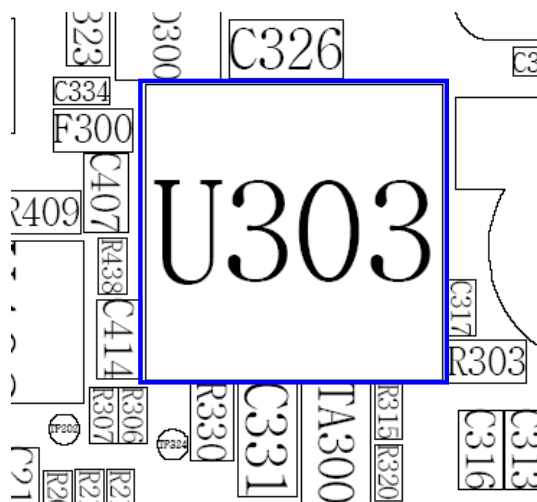




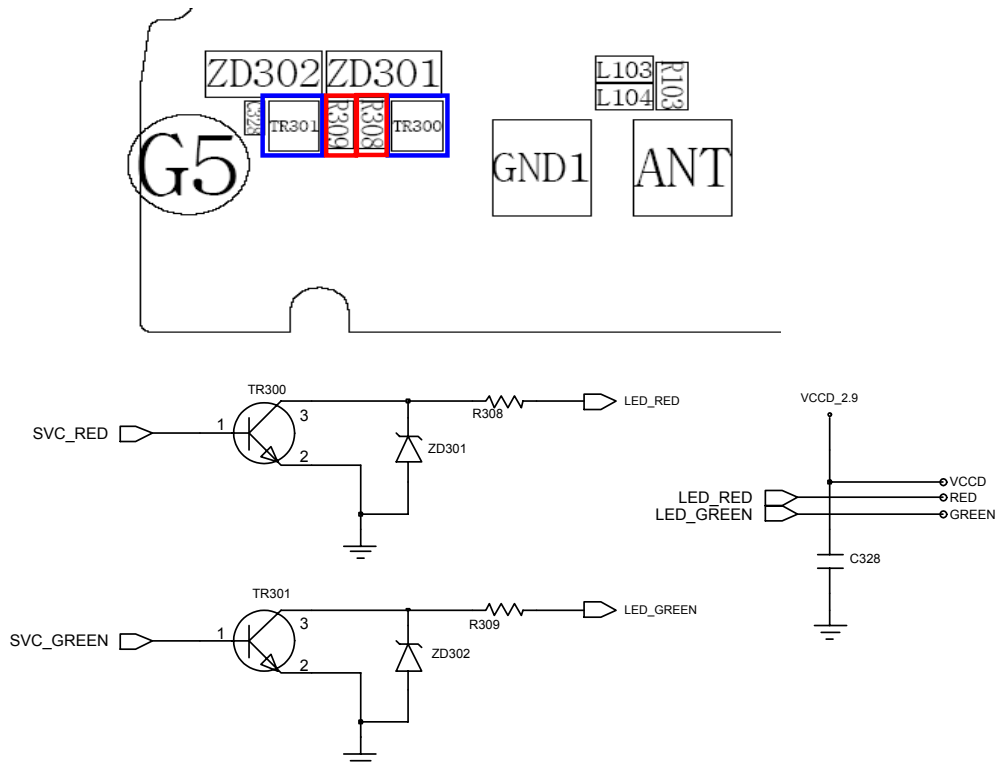
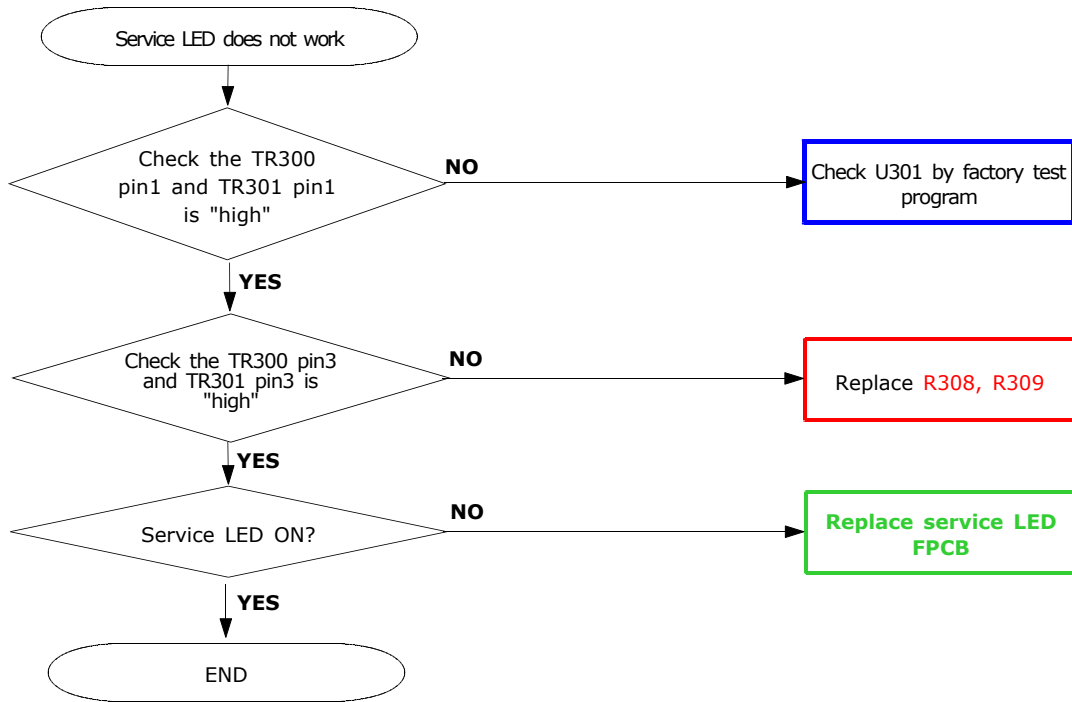
2-1-8. Camera



2-1-9. HINGE MOTOR



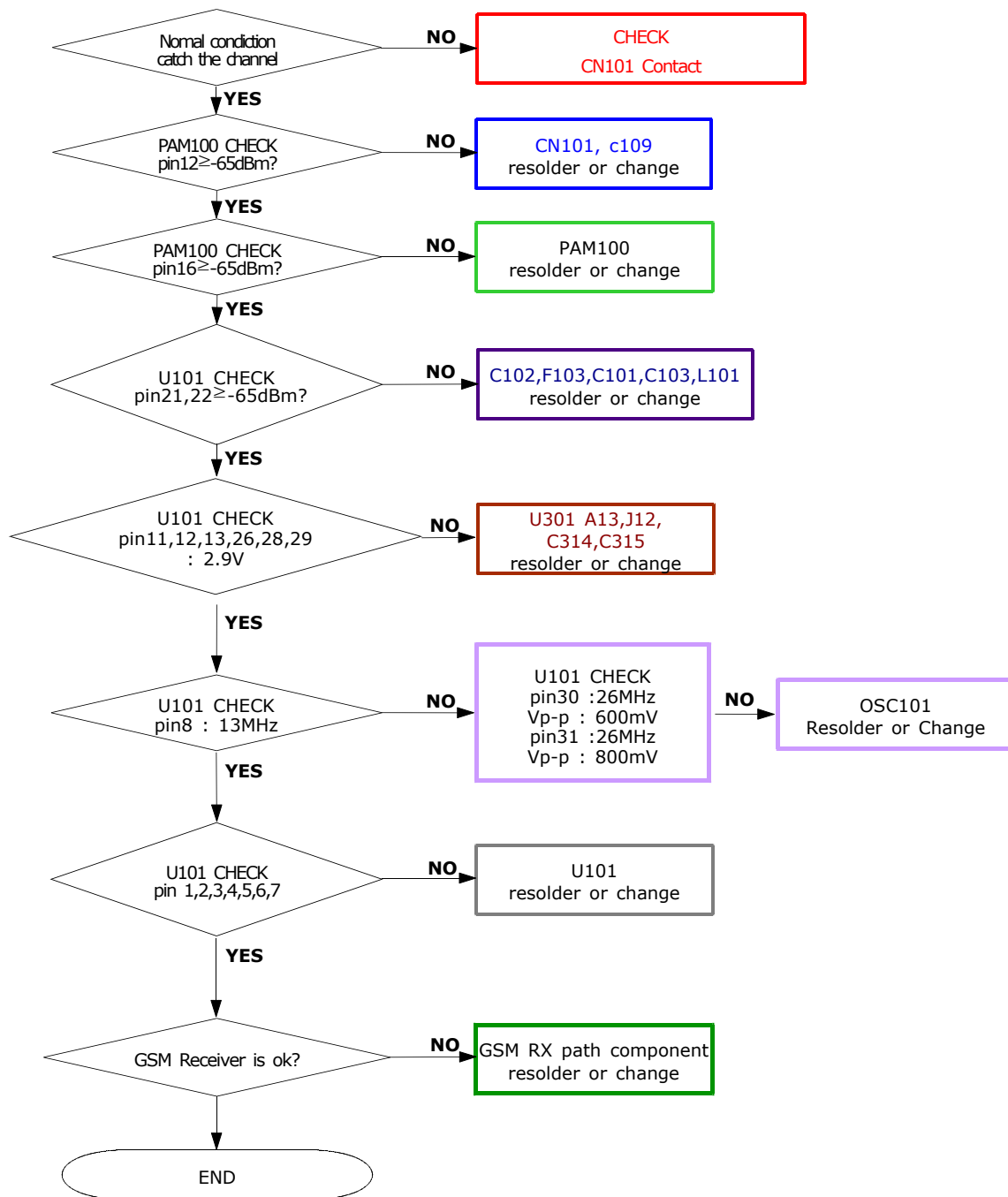
2-1-10. SERVICE LED PART



2-2.RF

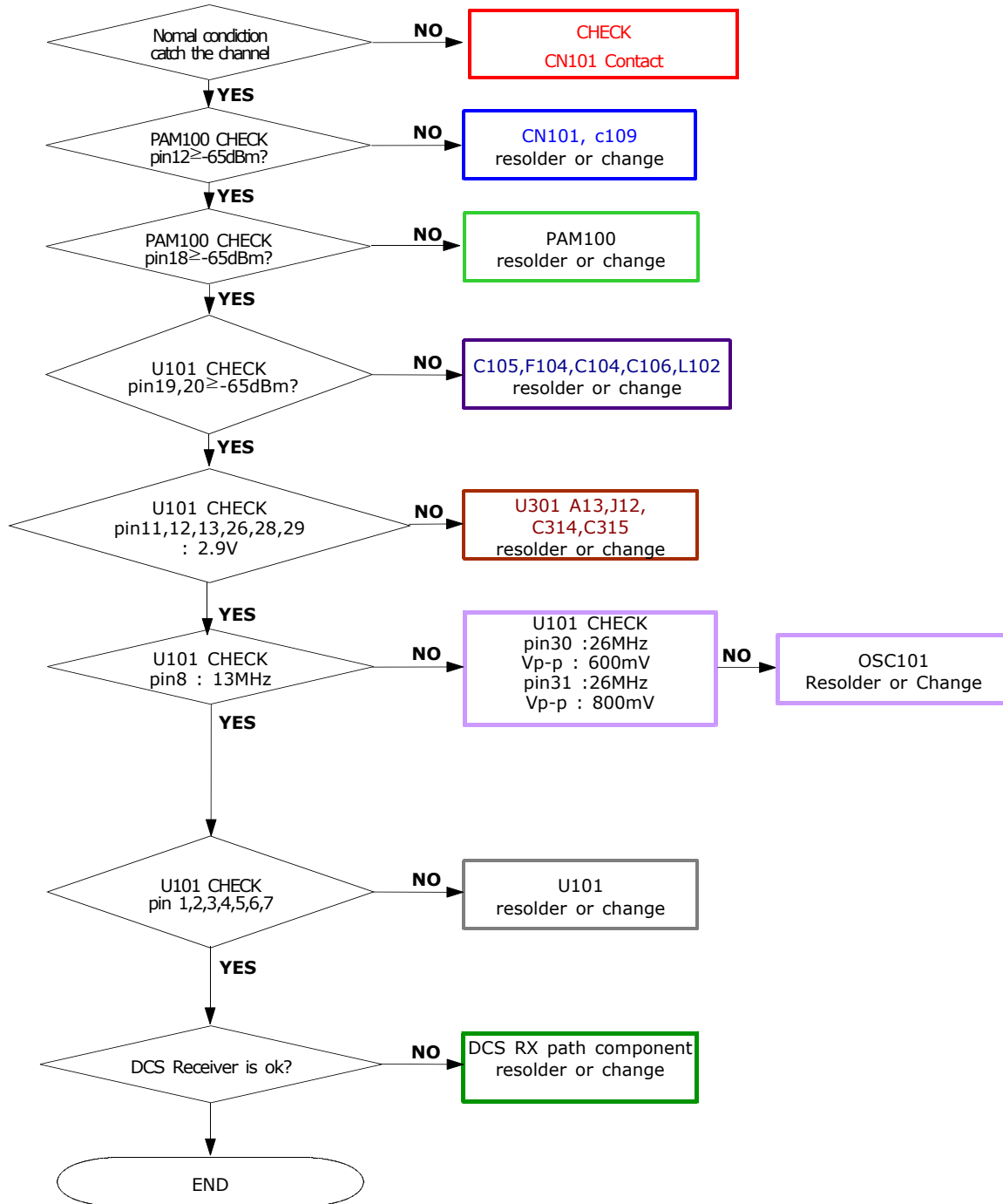
2-2-1. GSM Receiver

CONTINUOUS RX ON
RF INPUT : 62CH
Cell power : -50dBm

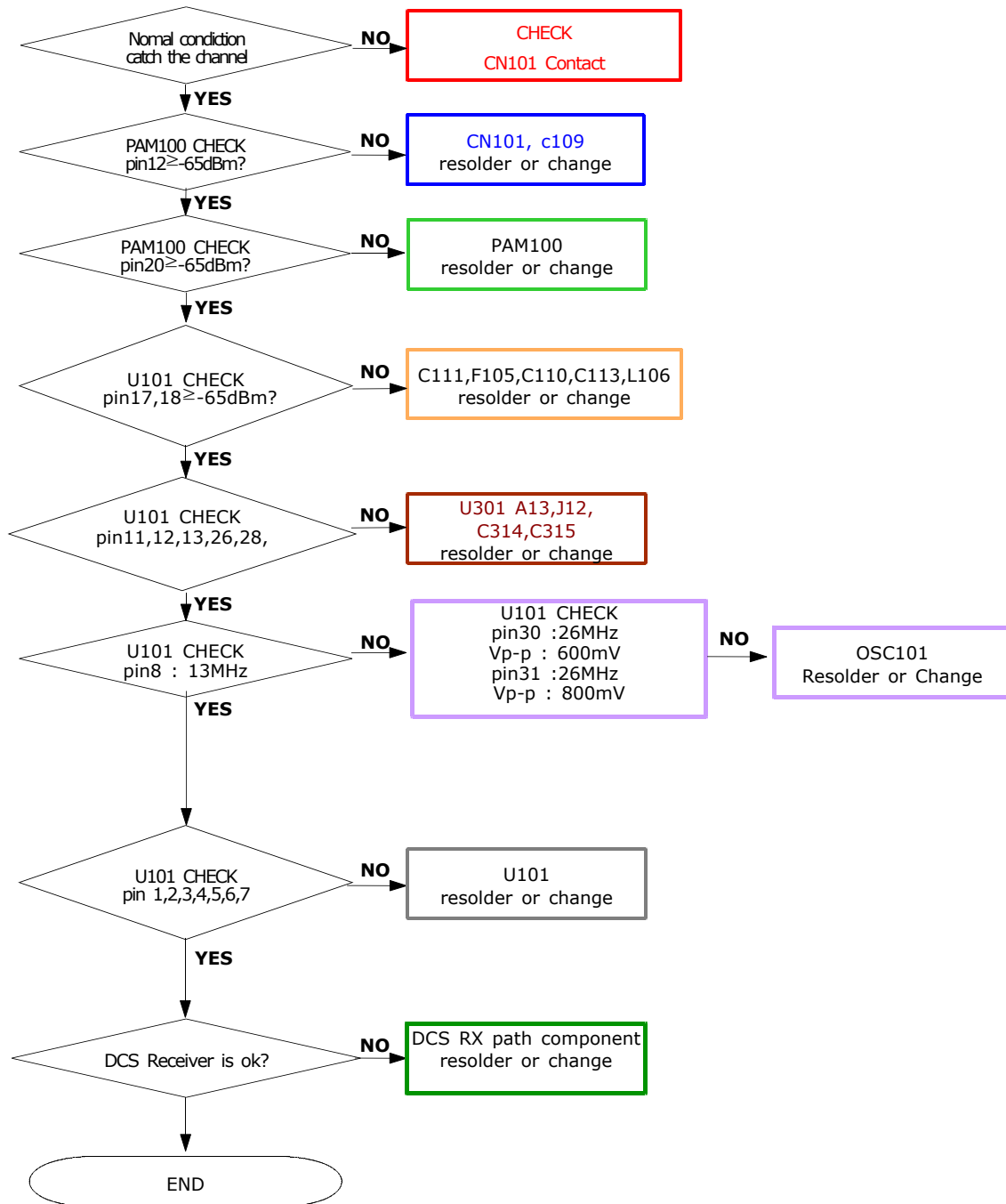


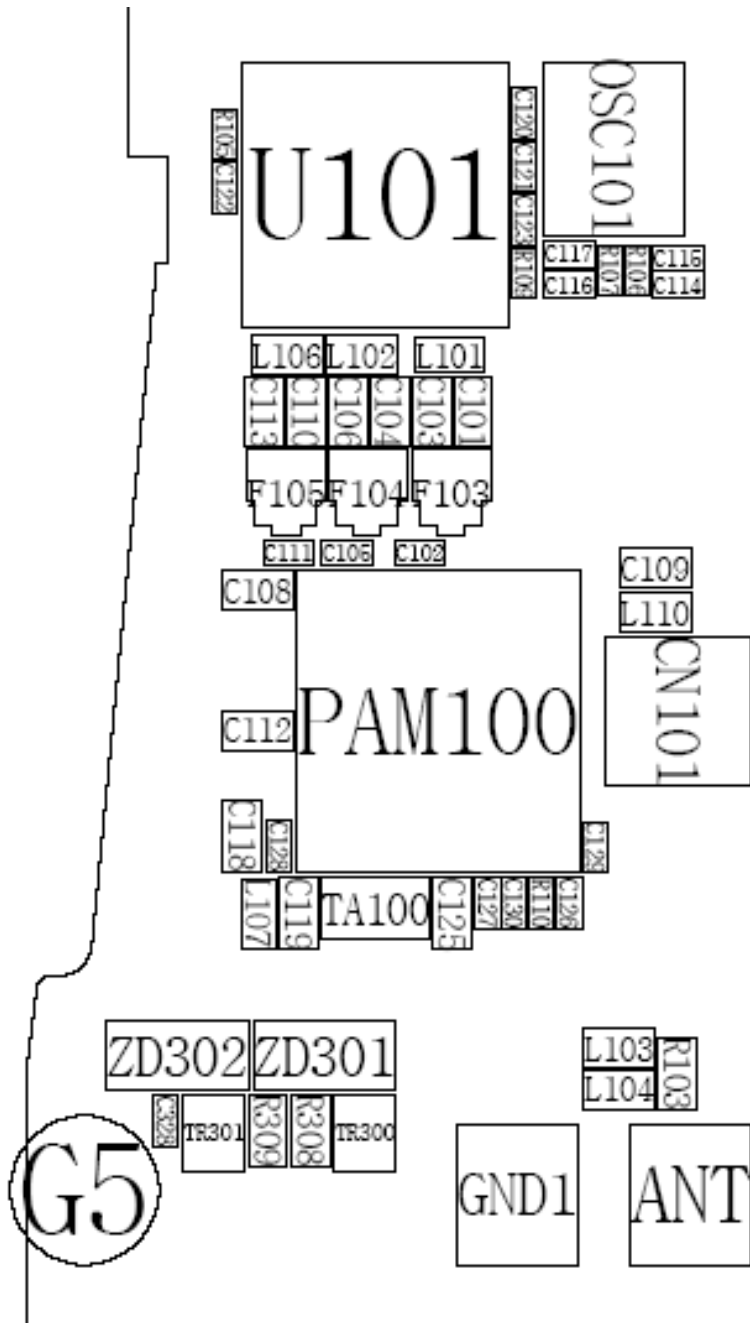
2-2-2. DCS Receiver

CONTINUOUS RX ON
RF INPUT : 62CH
Cellpower:-50dBm

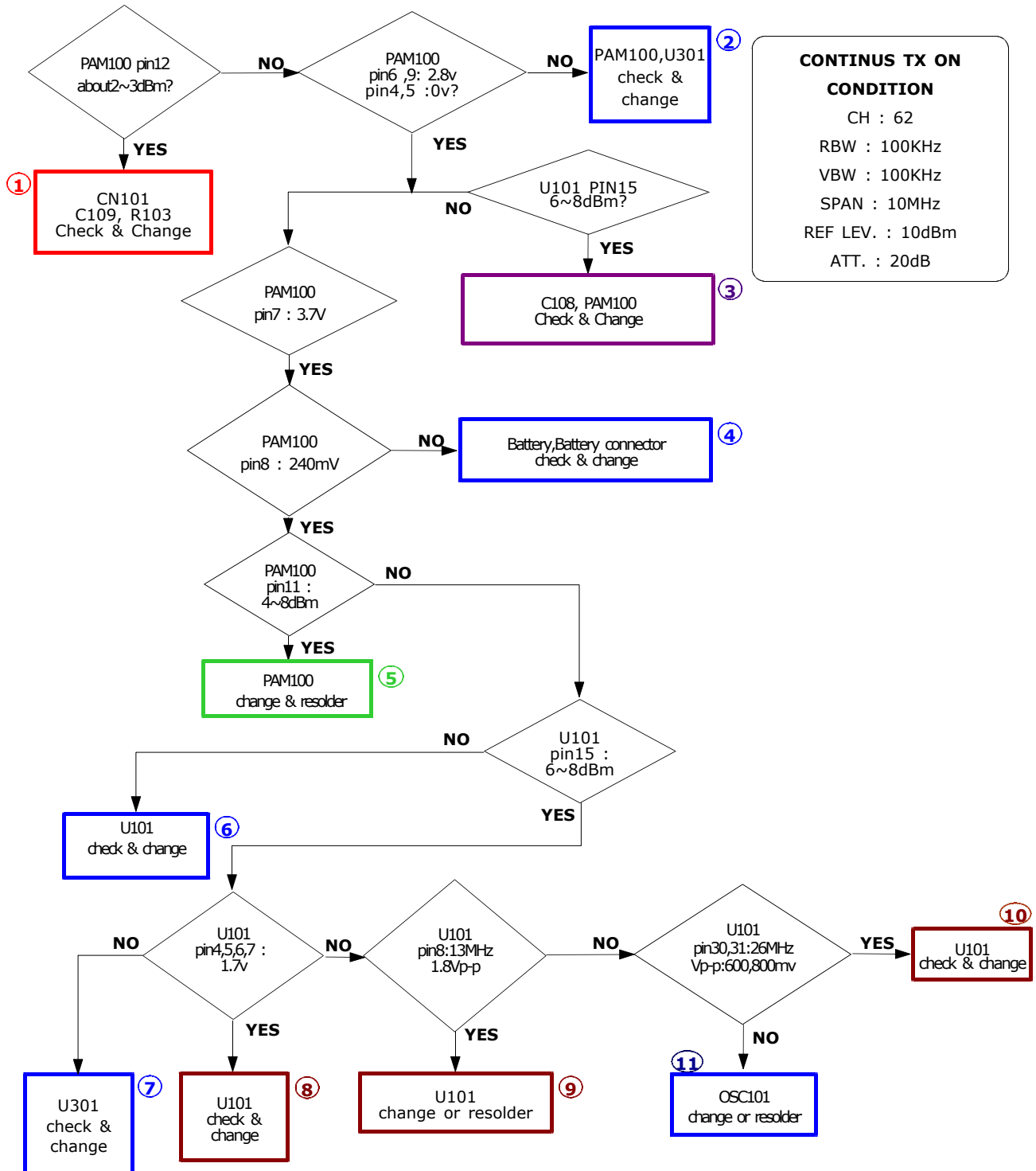


2-2-3. PCS Receiver

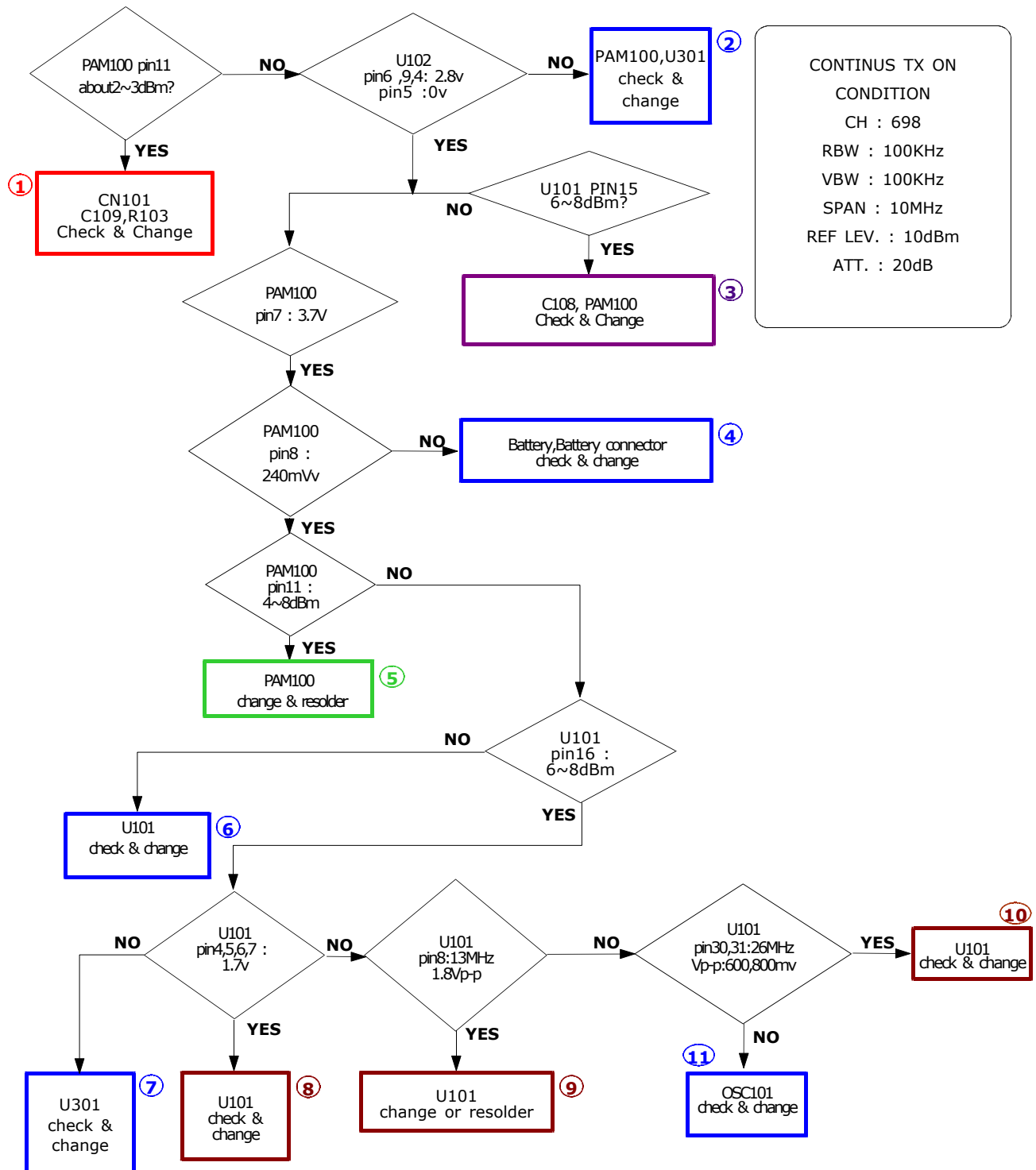




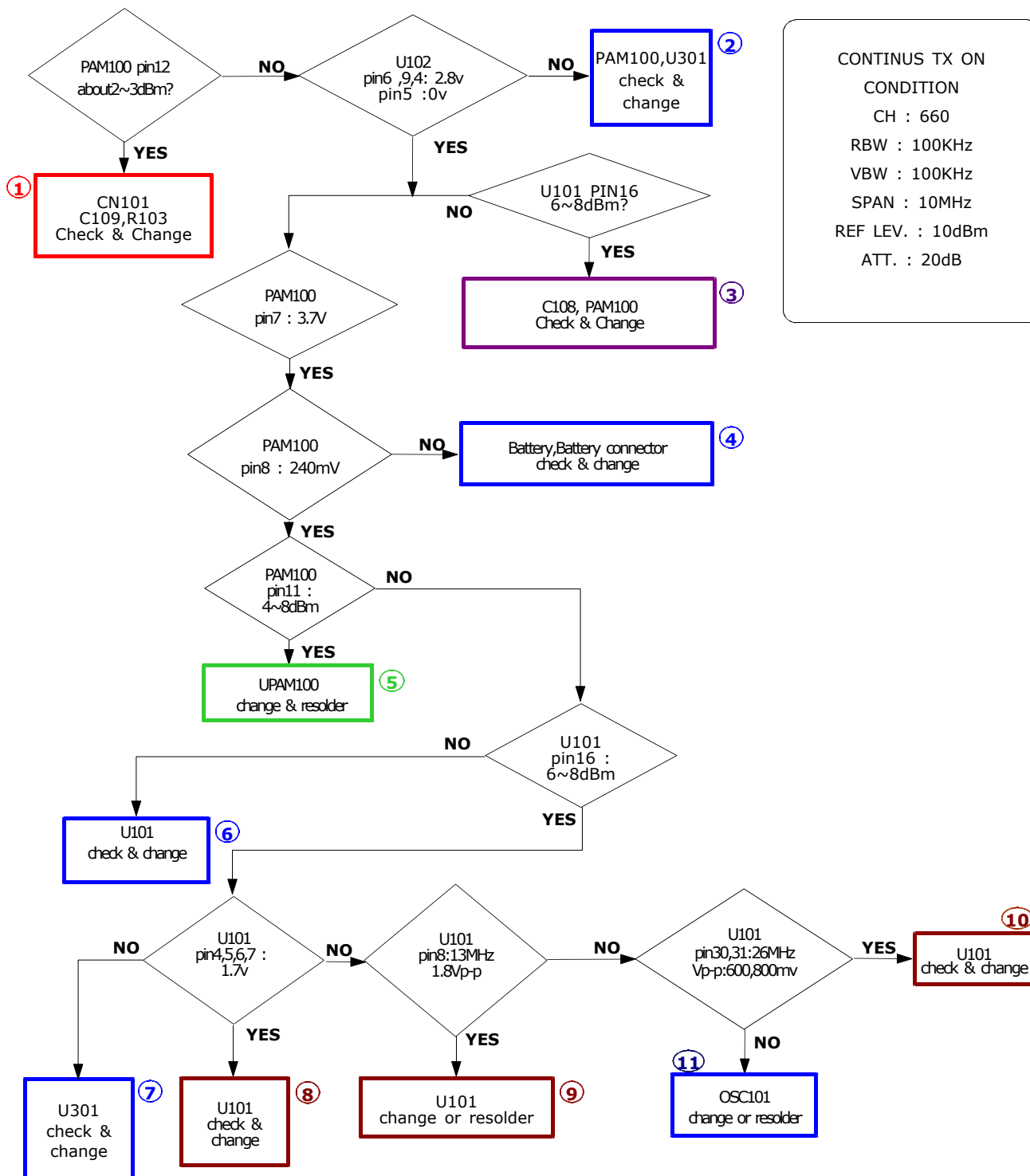
2-2-4. GSM Transmitter

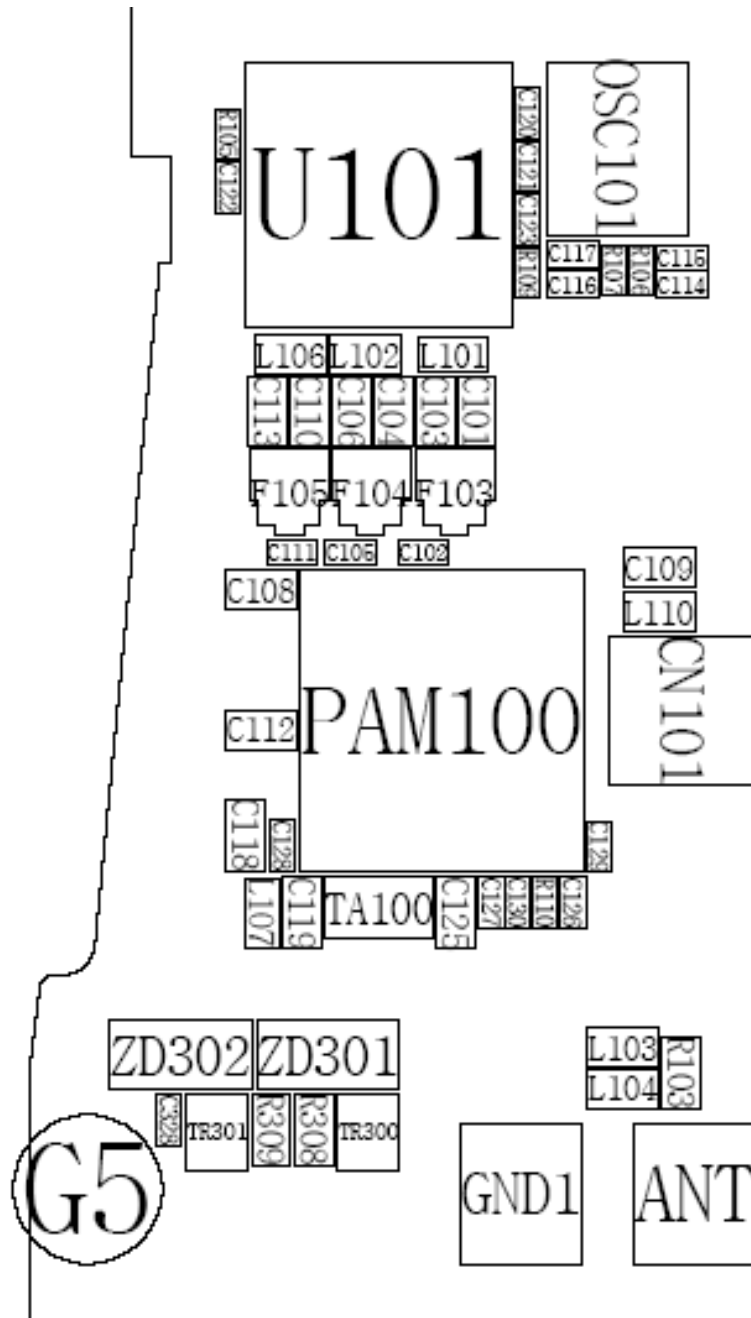


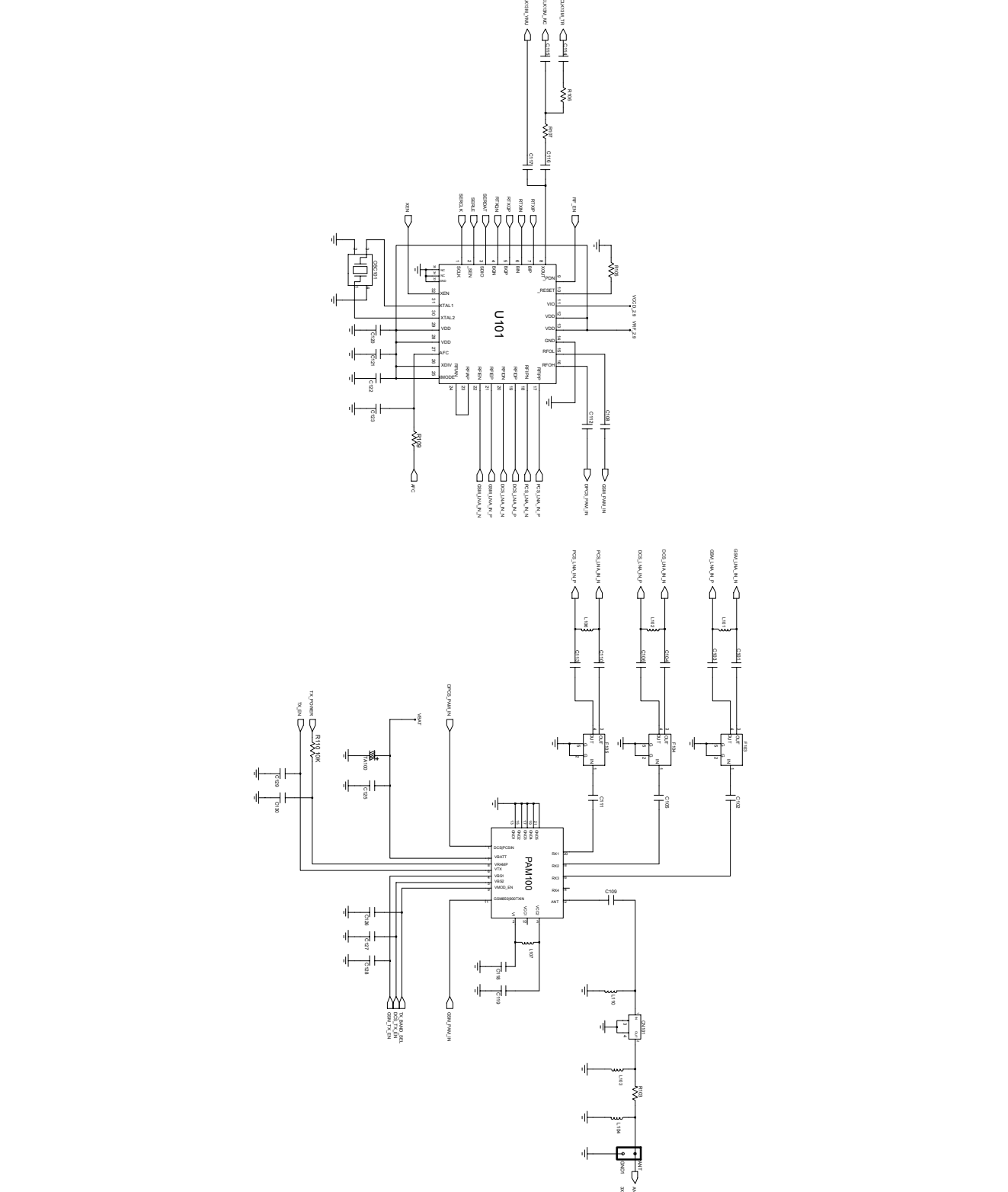
2-2-5. DCS Transmitter



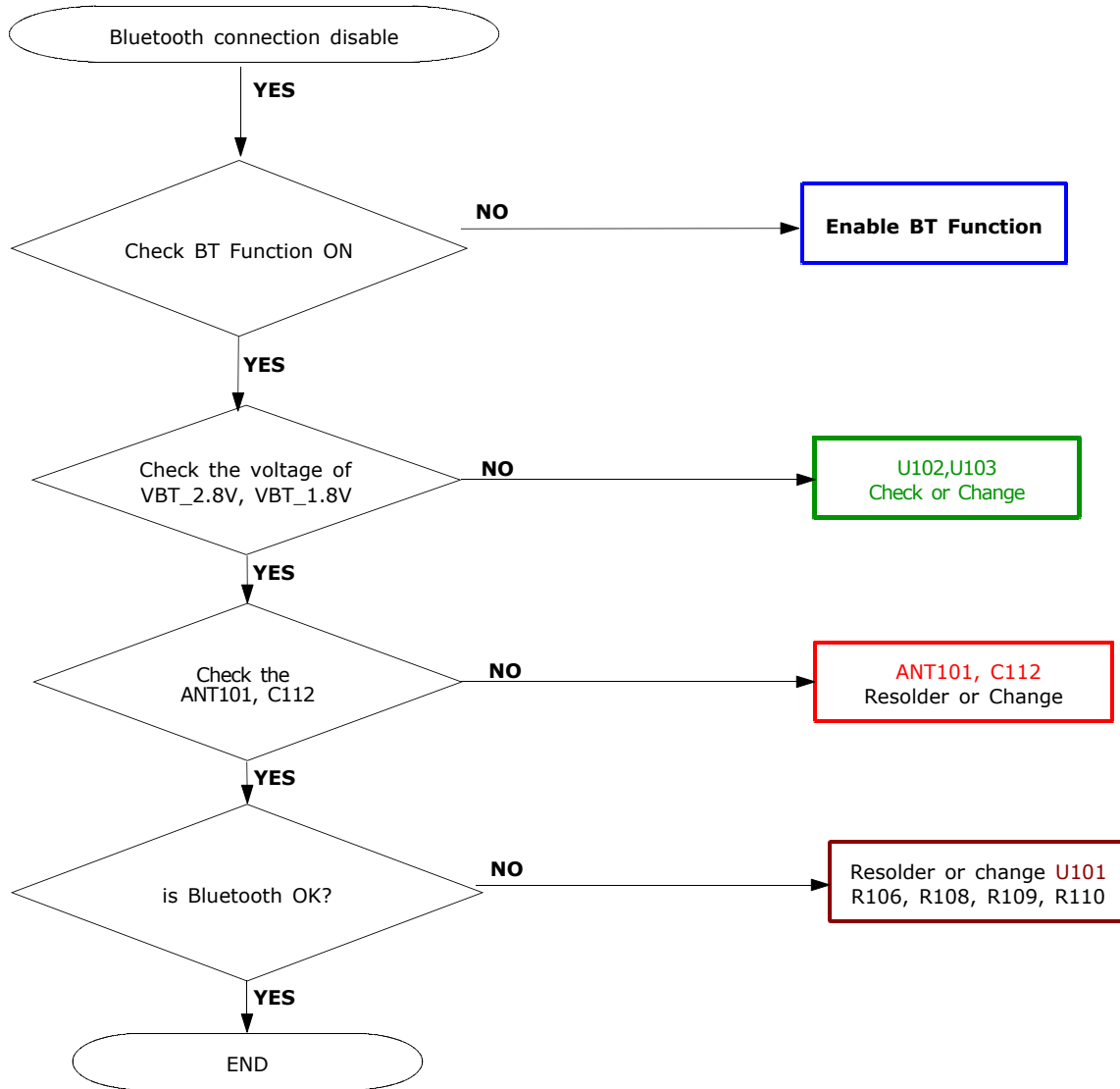
2-2-6. PCS Transmitter

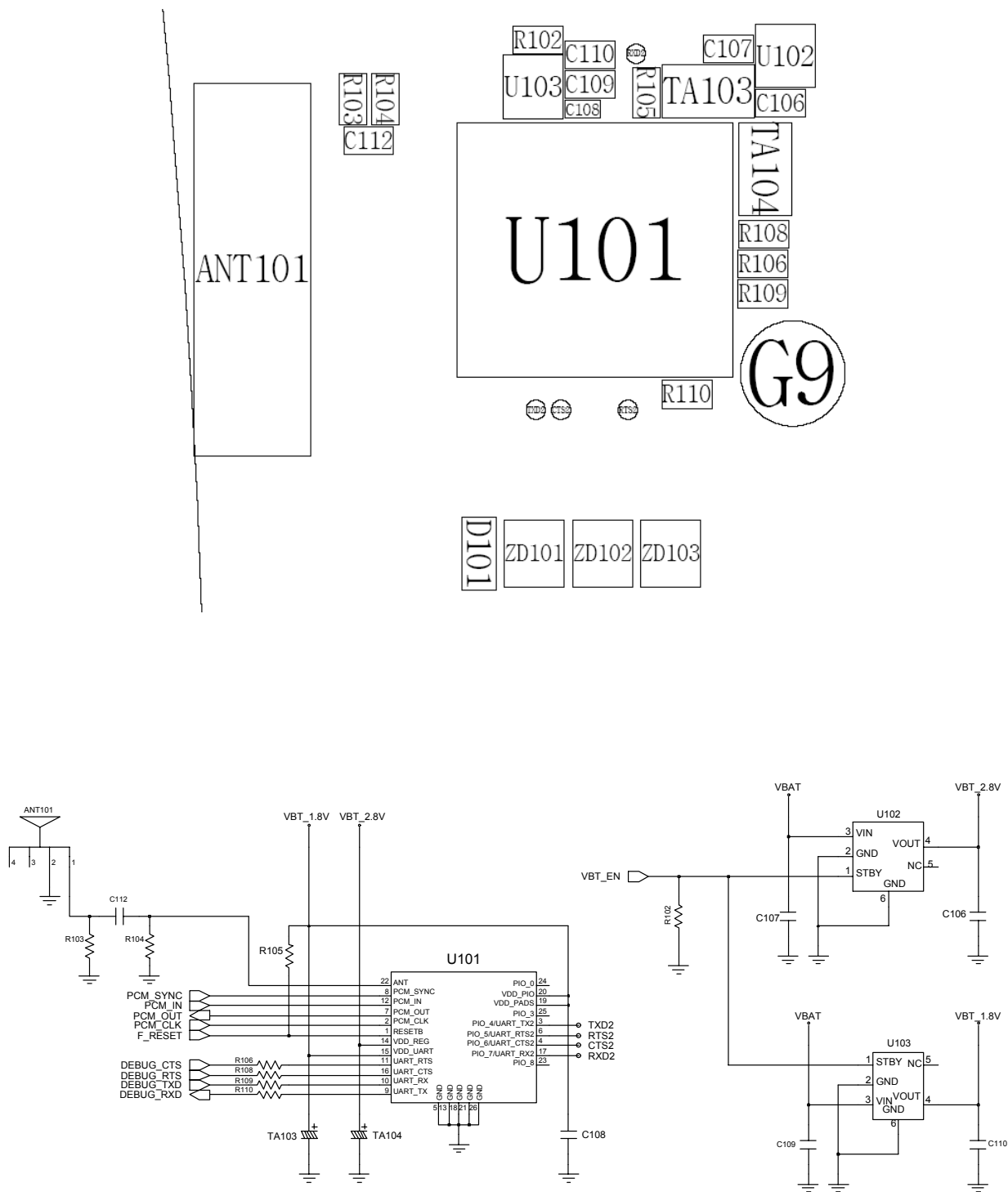






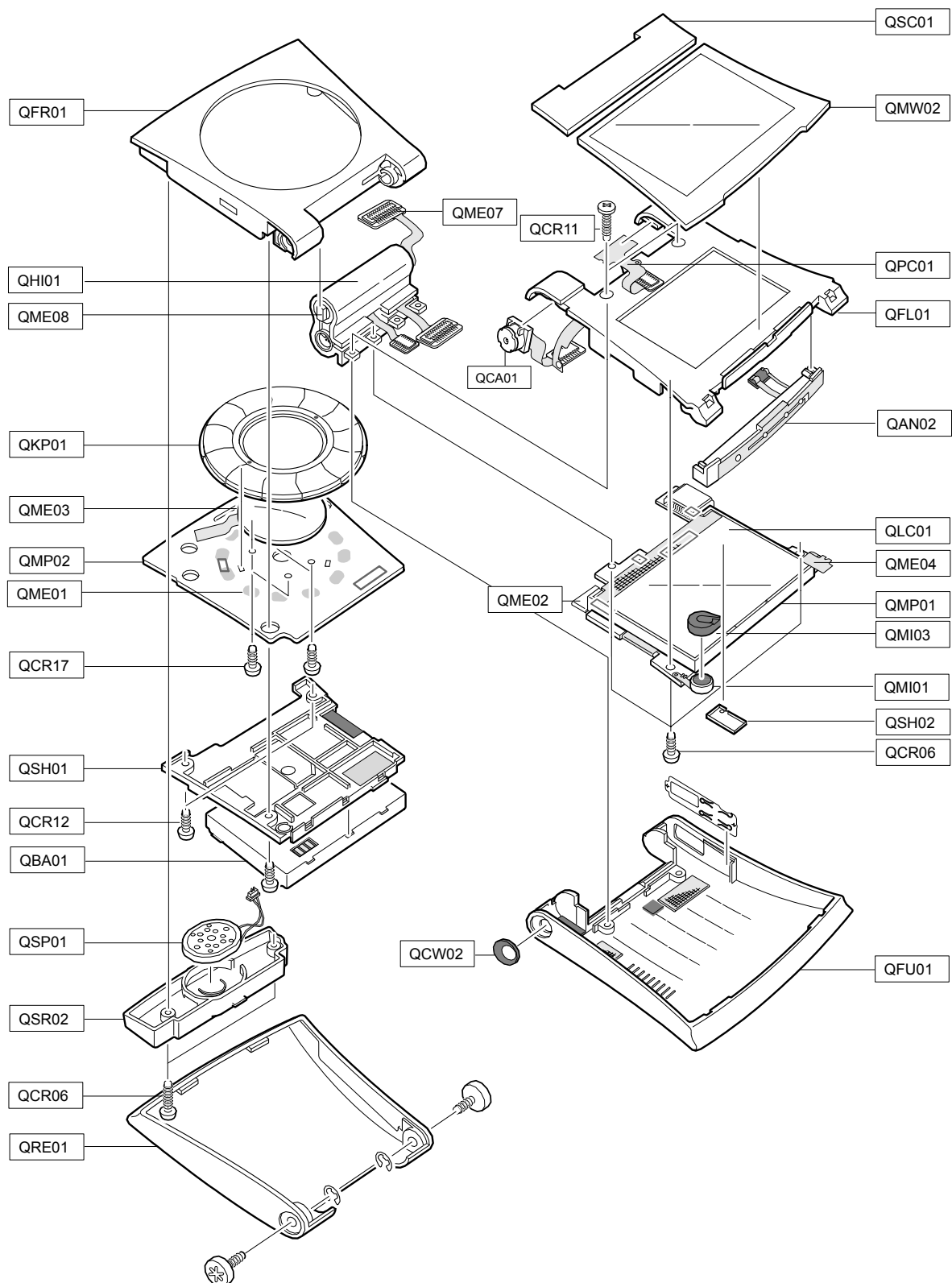
2-3-1. Bluetooth Part





3. SGH-E910 Exploded View and Parts List

3-1. Cellular phone Exploded View



3-2. Cellular phone Parts list

Location No		Description	SEC CODE
QAN02		ANTENNA-SGHE910	GH42-00680A
QBA01		BATTERY-800MAH,GRY,ENG,M	GH43-02149A
QCA01		UNIT-CAMERA	GH59-02526A
QCR06		SCREW-MACHINE	6001-001155
QCR06		SCREW-MACHINE	6001-001155
QCR11		SCREW-MACHINE	6001-001654
QCR12		SCREW-MACHINE	6001-001530
QCR17		SCREW-MACHINE	6001-001460
QFR01		MEC-FRONT COVER	GH75-07435A
QHI01		MEC-HINGE	GH75-07440A
QKP01		MEC-KEYPAD	GH75-07439A
QLC01		LCD-SGHE910 MODULE	GH07-00790A
QME01		UNIT-METAL DOME	GH59-02514A
QME02		UNIT-FPCB ASSY(OPEN)	GH59-02516A
QME03		UNIT-JOG KEY	GH59-02519A
QME04		UNIT-LED FPCB ASSY	GH59-02529A
QME07		UNIT-CON TO CON ASSY	GH59-02515A
QME08		UNIT-AUTO FOLDER	GH59-02527A
QMI01		MICROPHONE-ASSY	GH30-00219A
QMP01		PBA MAIN-SGHE910	GH92-02282A
QMP02		PBA SUB-SGHE910 KEY	GH92-02406A
QMW02		PMO-MAIN LCD WINDOW	GH72-23269A
QPC01		UNIT-FPCB ASSY(CLOSE)	GH59-02517A
QRE01		MEC-REAR COVER	GH75-07438A
QSC01		PMO-SCREW COVER	GH72-23049A
QSH01		MEC-SHIELD COVER	GH75-08076A
QSH02		NPR-SHIELD CAN	GH71-05579A
QSP01		SPEAKER	3001-001836
QSR02		MEC-SPEAKER BRACKET	GH75-08077A
QFL01		MEC-FOLDER LOWER	GH75-07437A
	QMI03	RMO-MIC HOLDER	GH73-05579A
QFU01		MEC-FOLDER UPPER	GH75-07436A
	QCW02	PMO-CAMERA WINDOW	GH72-23270A

Description	SEC CODE
BAG PE	6902-000461
ADAPTOR-SGHE910 TA,BLK,EU	GH44-01075A
LABEL(P)-WATER SOAK	GH68-02026A
LABEL(R)-MAIN (EU)	GH68-08485A
CUSHION-CASE	GH69-03347A
BOX(P)-UNIT MAIN (WHITE)	GH69-03348A
PMO-ANGLE DRIVER	GH72-26180A
RMO-KEY PCB RUBBER	GH73-06041A
MPR-TAPE LCD PCB GOLD	GH74-17771A
MPR-TAPE LCD CONNECTOR	GH74-17772A
MPR-KEY PCB CUSHION L	GH74-17773A
MPR-KEY PCB CUSHION R	GH74-17774A
MPR-TAPE JOG DIAL CONN	GH74-18198A
MPR-HINGE HOUSING SHEET	GH74-18199A
MPR-BOHO VINYL LCD WIN	GH74-18201A
MPR-BOHO VINYL LCD FRAME	GH74-18203A
MPR-SPONGE LCD CONNECTOR	GH74-18207A
MPR-LCD PCB CUSHION A	GH74-18208A
MPR-LCD PCB CUSHION B	GH74-18209A
MPR-MIC SPONGE	GH74-18210A
MPR-KEY PCB SPONGE	GH74-18855A
MPR-SPONGE CLOSE SENSOR	GH74-18856A
MPR-BOHO VINYL HIN HOU B	GH74-18859A
MPR-BOHO VINYL HIN HOU B	GH74-18859A
MPR-BOHO VINYL SPK BRA	GH74-19101A
MPR-BOHO VINYL FOLDER	GH74-19182A
MPR-BOHO VINYL FOLDER	GH74-19182A
MPR-LCD PCB INSULA TAPE	GH74-19188A
MPR-LCD FPCB SPONGE	GH74-19189A
MPR-VINYL BOHO FRONT	GH74-19684A
MPR-VINYL BOHO JOG KEY	GH74-19685A
MPR-VINYL BOHO JOG KEY	GH74-19685A
MPR-VINYL BOHO LCD WIN P	GH74-20237A

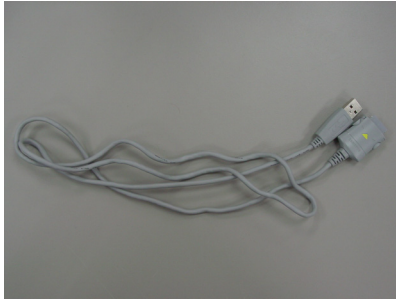
3-3. Test Jig (GH80-03307A)



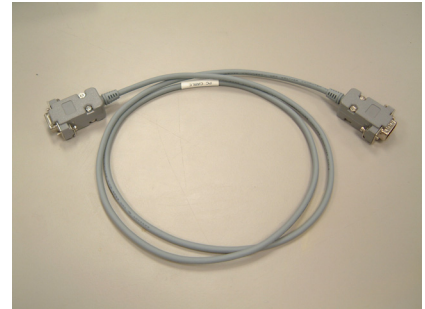
3-3-1. RF Test Cable
(GH39-00182A)



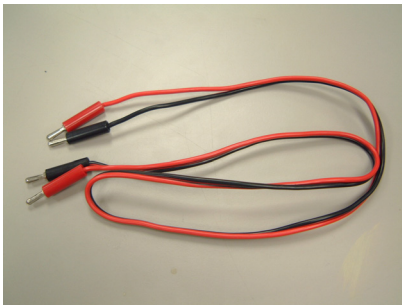
3-3-2. DATA CABLE
(GH39-00279A)



3-3-3. Serial Cable



3-3-4. Power Supply Cable



3-3-5. Test Cable
(GH39-00462A)



3-3-6. TA
(GH44-01075A)



4. SGH-E910 MAIN Electrical Parts List

SEC Code	Design LOC	Discription	STATUS
0403-001062	ZD301	DIODE-ZENER	SA
0403-001062	ZD302	DIODE-ZENER	SA
0403-001547	ZD501	DIODE-ZENER	SA
0406-001150	D101	DIODE-TVS	SA
0406-001190	ZD101	DIODE-TVS	SA
0406-001190	ZD102	DIODE-TVS	SA
0406-001190	ZD103	DIODE-TVS	SA
0406-001190	ZD300	DIODE-TVS	SA
0406-001190	ZD506	DIODE-TVS	SA
0406-001190	ZD507	DIODE-TVS	SA
0406-001201	ZD502	DIODE-TVS	SA
0407-000115	D300	DIODE-ARRAY	SA
0501-000225	TR501	TR-SMALL SIGNAL	SA
0504-001141	TR300	TR-DIGITAL	SA
0504-001141	TR301	TR-DIGITAL	SA
0601-002053	LED102	LED	SA
0601-002053	LED103	LED	SA
0601-002053	LED104	LED	SA
0601-002053	LED105	LED	SA
0601-002053	LED106	LED	SA
0601-002053	LED107	LED	SA
0601-002053	LED108	LED	SA
0601-002053	LED109	LED	SA
0601-002053	LED110	LED	SA
0601-002053	LED111	LED	SA
0601-002053	LED112	LED	SA
0601-002053	LED113	LED	SA
0601-002053	LED114	LED	SA
0601-002053	LED115	LED	SA
0601-002053	LED116	LED	SA
0801-002529	U204	IC-CMOS LOGIC	SA
0904-001946	U401	IC-GRAPHIC CONT.	SA
1001-001261	U402	IC-ANALOG SWITCH	SA
1003-001547	U303	IC-MOTOR DRIVER	SA

SEC Code	Design LOC	Discription	STATUS
1108-000001	UME200	IC-MCP	SA
1201-002222	U406	IC-AUDIO AMP	SA
1201-002278	PAM100	IC-POWER AMP	SA
1203-003109	U203	IC-BATTERY	SA
1203-003328	U500	IC-DC/DC CONVERTER	SA
1203-003432	U103	IC-POSI.FIXED REG.	SA
1203-003432	U307	IC-POSI.FIXED REG.	SA
1203-003432	U407	IC-POSI.FIXED REG.	SA
1203-003434	U304	IC-DC/DC CONVERTER	SA
1203-003523	U102	IC-POSI.FIXED REG.	SA
1203-003523	U104	IC-POSI.FIXED REG.	SA
1203-003523	U404	IC-POSI.FIXED REG.	SA
1203-003523	U405	IC-POSI.FIXED REG.	SA
1203-003565	U301	IC-POWER SUPERVISOR	SA
1204-002138	U403	IC-MELODY	SA
1205-002683	U101	IC-TRANSCEIVER	SA
1404-001165	V300	THERMISTOR-NTC	SA
1405-001082	VR101	VARISTOR	SA
1405-001082	VR102	VARISTOR	SA
1405-001082	VR103	VARISTOR	SA
1405-001082	VR300	VARISTOR	SA
1405-001082	VR301	VARISTOR	SA
1405-001082	VR400	VARISTOR	SA
1405-001082	VR401	VARISTOR	SA
1405-001082	VR402	VARISTOR	SA
2007-000138	R548	R-CHIP	SA
2007-000139	R118	R-CHIP	SA
2007-000139	R120	R-CHIP	SA
2007-000139	R121	R-CHIP	SA
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2007-000139	R123	R-CHIP	SA
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2007-000139	R125	R-CHIP	SA
2007-000139	R126	R-CHIP	SA

SEC Code	Design LOC	Discription	STATUS
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2007-000142	R210	R-CHIP	SA
2007-000148	R303	R-CHIP	SA
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2007-000157	R113	R-CHIP	SA
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2007-000171	R219	R-CHIP	SA
2007-000171	R334	R-CHIP	SA
2007-000171	R447	R-CHIP	SA
2007-000171	R450	R-CHIP	SA
2007-000775	R442	R-CHIP	SA
2007-001119	R500	R-CHIP	SA
2007-001306	R308	R-CHIP	SA
2007-001306	R309	R-CHIP	SA
2007-001319	R411	R-CHIP	SA
2007-001323	R105	R-CHIP	SA
2007-001325	R440	R-CHIP	SA

SEC Code	Design LOC	Discription	STATUS
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2007-007014	R443	R-CHIP	SA
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2007-007142	R426	R-CHIP	SA
2007-007142	R503	R-CHIP	SA
2007-007142	R520	R-CHIP	SA
2007-007306	R521	R-CHIP	SA
2007-007314	R451	R-CHIP	SA
2007-007314	R452	R-CHIP	SA
2007-007317	R501	R-CHIP	SA
2007-007468	R502	R-CHIP	SA
2007-007468	R519	R-CHIP	SA
2007-007528	R421	R-CHIP	SA
2007-007528	R429	R-CHIP	SA
2007-007590	R114	R-CHIP	SA
2007-007590	R115	R-CHIP	SA
2007-007590	R511	R-CHIP	SA
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2007-008053	R305	R-CHIP	SA
2007-008055	R438	R-CHIP	SA
2007-008419	R332	R-CHIP	SA

SEC Code	Design LOC	Discription	STATUS
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2007-008419	R538	R-CHIP	SA
2007-008419	R539	R-CHIP	SA
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2007-008516	R301	R-CHIP	SA
2007-008516	R404	R-CHIP	SA

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2007-008544	R549	R-CHIP	SA
2007-008548	R106	R-CHIP	SA
2007-008587	R107	R-CHIP	SA
2007-008588	R401	R-CHIP	SA
2007-008588	R402	R-CHIP	SA
2007-008786	R304	R-CHIP	SA
2007-009157	R203	R-CHIP	SA
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2203-000330	C412	C-CER,CHIP	SA
2203-000425	C214	C-CER,CHIP	SA
2203-000425	C215	C-CER,CHIP	SA
2203-000438	C433	C-CER,CHIP	SA
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2203-000812	C100	C-CER,CHIP	SA
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2203-000995	C109	C-CER,CHIP	SA
2203-000995	C226	C-CER,CHIP	SA
2203-001405	C437	C-CER,CHIP	SA
2203-001652	C326	C-CER,CHIP	SA
2203-005061	C118	C-CER,CHIP	SA
2203-005061	C125	C-CER,CHIP	SA
2203-005281	C101	C-CER,CHIP	SA
2203-005281	C103	C-CER,CHIP	SA
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2203-005288	C110	C-CER,CHIP	SA
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2203-005482	C101	C-CER,CHIP	SA

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SEC Code	Design LOC	Discription	STATUS
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2203-005736	C102	C-CER,CHIP	SA
2203-005736	C105	C-CER,CHIP	SA
2203-005736	C111	C-CER,CHIP	SA
2203-005736	C115	C-CER,CHIP	SA
2203-005736	C130	C-CER,CHIP	SA
2203-005736	C317	C-CER,CHIP	SA
2203-005736	C345	C-CER,CHIP	SA
2203-006047	C451	C-CER,CHIP	SA
2203-006190	C503	C-CER,CHIP	SA
2203-006190	C514	C-CER,CHIP	SA

SEC Code	Design LOC	Discription	STATUS
2203-006194	C116	C-CER,CHIP	SA
2203-006194	C117	C-CER,CHIP	SA
2203-006194	C123	C-CER,CHIP	SA
2203-006194	C202	C-CER,CHIP	SA
2203-006194	C204	C-CER,CHIP	SA
2203-006194	C210	C-CER,CHIP	SA
2203-006194	C212	C-CER,CHIP	SA
2203-006194	C301	C-CER,CHIP	SA
2203-006194	C302	C-CER,CHIP	SA
2203-006194	C319	C-CER,CHIP	SA
2203-006201	C306	C-CER,CHIP	SA
2203-006201	C431	C-CER,CHIP	SA
2203-006208	C224	C-CER,CHIP	SA
2203-006208	C331	C-CER,CHIP	SA
2203-006208	C343	C-CER,CHIP	SA
2203-006208	C344	C-CER,CHIP	SA
2203-006257	C102	C-CER,CHIP	SA
2203-006257	C222	C-CER,CHIP	SA
2203-006260	C409	C-CER,CHIP	SA
2203-006260	C413	C-CER,CHIP	SA
2203-006399	C106	C-CER,CHIP	SA
2203-006399	C110	C-CER,CHIP	SA
2203-006399	C310	C-CER,CHIP	SA
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2203-006399	C316	C-CER,CHIP	SA
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2203-006399	C416	C-CER,CHIP	SA
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2203-006423	C108	C-CER,CHIP	SA

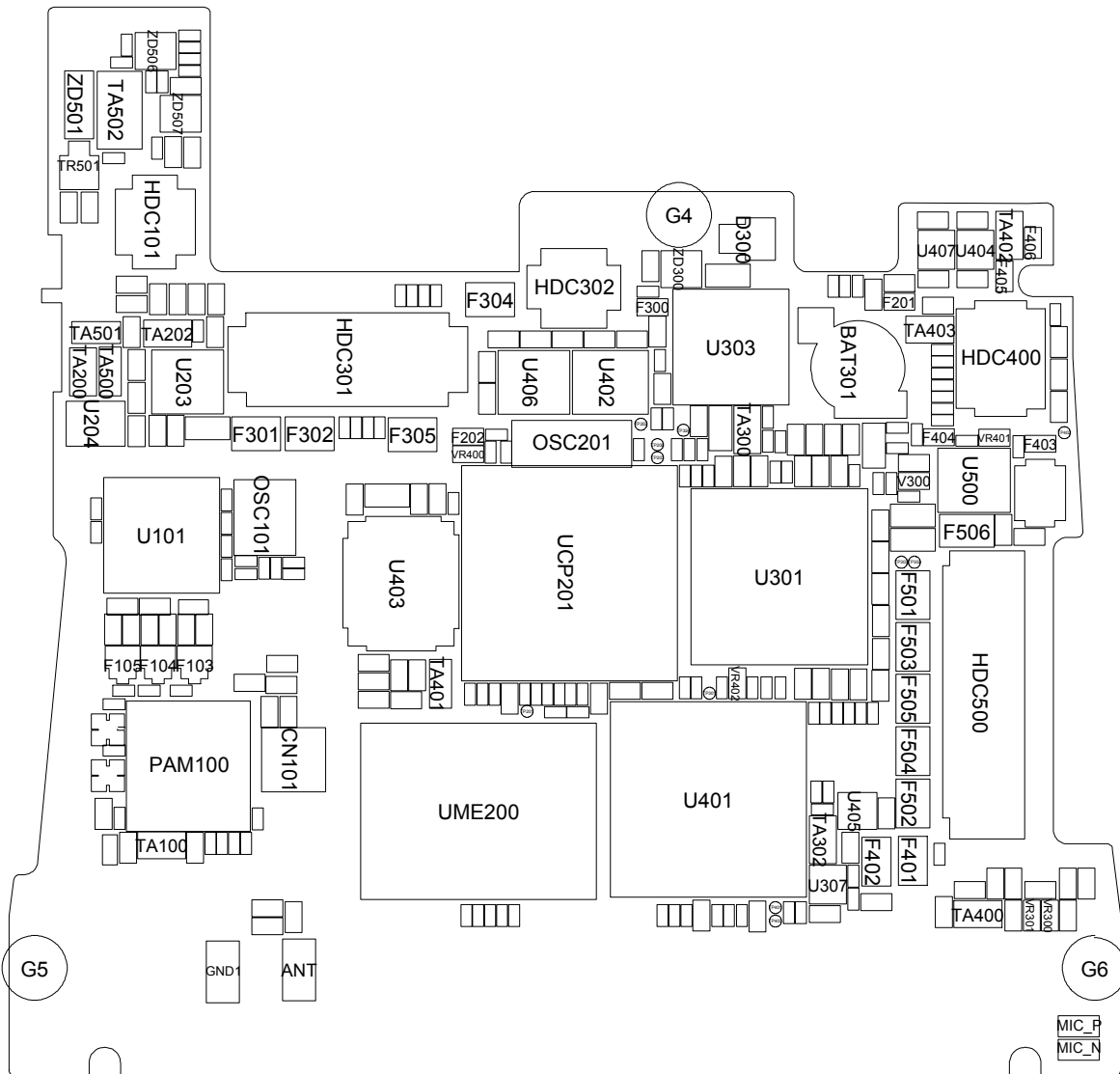
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2203-006423	C404	C-CER,CHIP	SA
2203-006423	C415	C-CER,CHIP	SA
2203-006423	C418	C-CER,CHIP	SA
2203-006423	C419	C-CER,CHIP	SA
2203-006423	C422	C-CER,CHIP	SA
2203-006423	C430	C-CER,CHIP	SA
2203-006423	C444	C-CER,CHIP	SA
2203-006423	C501	C-CER,CHIP	SA
2203-006562	C201	C-CER,CHIP	SA
2203-006562	C206	C-CER,CHIP	SA
2203-006562	C225	C-CER,CHIP	SA
2203-006562	C307	C-CER,CHIP	SA
2203-006562	C308	C-CER,CHIP	SA
2203-006562	C325	C-CER,CHIP	SA

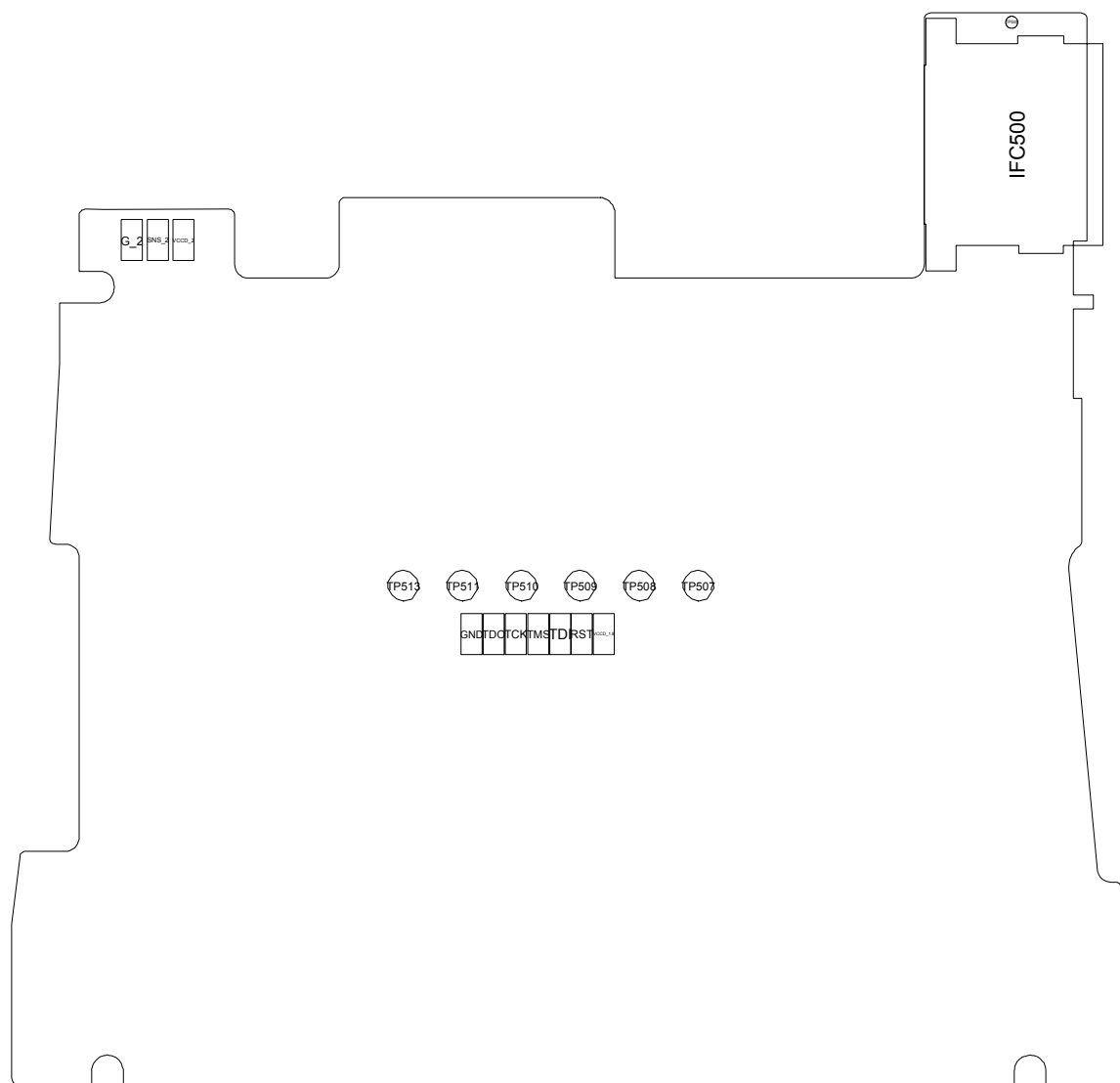
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2203-006562	C450	C-CER,CHIP	SA
2203-006562	C507	C-CER,CHIP	SA
2203-006636	C506	C-CER,CHIP	SA
2203-006648	C121	C-CER,CHIP	SA
2203-006648	C207	C-CER,CHIP	SA
2203-006648	C322	C-CER,CHIP	SA
2404-001105	TA103	C-TA,CHIP	SA
2404-001105	TA104	C-TA,CHIP	SA
2404-001225	TA105	C-TA,CHIP	SA
2404-001225	TA400	C-TA,CHIP	SA
2404-001225	TA402	C-TA,CHIP	SA
2404-001225	TA403	C-TA,CHIP	SA
2404-001274	TA100	C-TA,CHIP	SA
2404-001274	TA101	C-TA,CHIP	SA
2404-001274	TA502	C-TA,CHIP	SA
2404-001381	TA401	C-TA,CHIP	SA
2404-001381	TA500	C-TA,CHIP	SA
2404-001381	TA501	C-TA,CHIP	SA
2404-001394	TA100	C-TA,CHIP	SA
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2404-001394	TA202	C-TA,CHIP	SA
2404-001394	TA300	C-TA,CHIP	SA
2404-001394	TA302	C-TA,CHIP	SA
2703-001733	L102	INDUCTOR-SMD	SA
2703-001734	L106	INDUCTOR-SMD	SA
2703-001747	L101	INDUCTOR-SMD	SA
2703-002320	L110	INDUCTOR-SMD	SA
2703-002485	L101	INDUCTOR-SMD	SA
2703-002485	L107	INDUCTOR-SMD	SA
2703-002734	L300	INDUCTOR-SMD	SA

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2801-004373	OSC201	CRYSTAL-SMD	SA
2801-004426	OSC101	CRYSTAL-SMD	SA
2901-001256	F306	FILTER-EMI SMD	SA
2901-001286	F301	FILTER-EMI SMD	SA
2901-001286	F302	FILTER-EMI SMD	SA
2901-001286	F304	FILTER-EMI SMD	SA
2901-001286	F305	FILTER-EMI SMD	SA
2904-001592	F103	FILTER-SAW	SA
2904-001599	F104	FILTER-SAW	SA
2904-001600	F105	FILTER-SAW	SA
3301-001120	F506	BEAD-SMD	SA
3301-001534	F201	BEAD-SMD	SA
3301-001534	F202	BEAD-SMD	SA
3301-001534	F300	BEAD-SMD	SA
3301-001534	F403	BEAD-SMD	SA
3301-001534	F404	BEAD-SMD	SA
3301-001534	F405	BEAD-SMD	SA
3301-001534	F406	BEAD-SMD	SA
3705-001287	CN101	CONNECTOR-COAXIAL	SA
3708-001912	CN101	CONNECTOR-FPC/FFC/PIC	SA
3708-001966	HDC500	CONNECTOR-FPC/FFC/PIC	SA
3709-001406	SIM100	CONNECTOR-CARD EDGE	SNA
3710-001105	SOC101	SOCKET-BOARD TO BOARD	SA
3710-002302	IFC500	SOCKET-INTERFACE	SA
3711-005296	HDC400	HEADER-BOARD TO BOARD	SA
3711-005550	HDC101	HEADER-BOARD TO BOARD	SA
3711-005550	HDC302	HEADER-BOARD TO BOARD	SA
3711-005551	HDC101	HEADER-BOARD TO BOARD	SA
3711-005551	HDC301	HEADER-BOARD TO BOARD	SA
3711-006018	BTC101	CONNECTOR-HEADER	SA
4202-001080	ANT101	ANTENNA-CHIP	SA
4302-001158	BAT301	BATTERY-LI(2ND)	SA
4709-001350	U101	BLUETOOTH MODULE	SA
GH09-00038A	UCP201	IC MICOM	SA

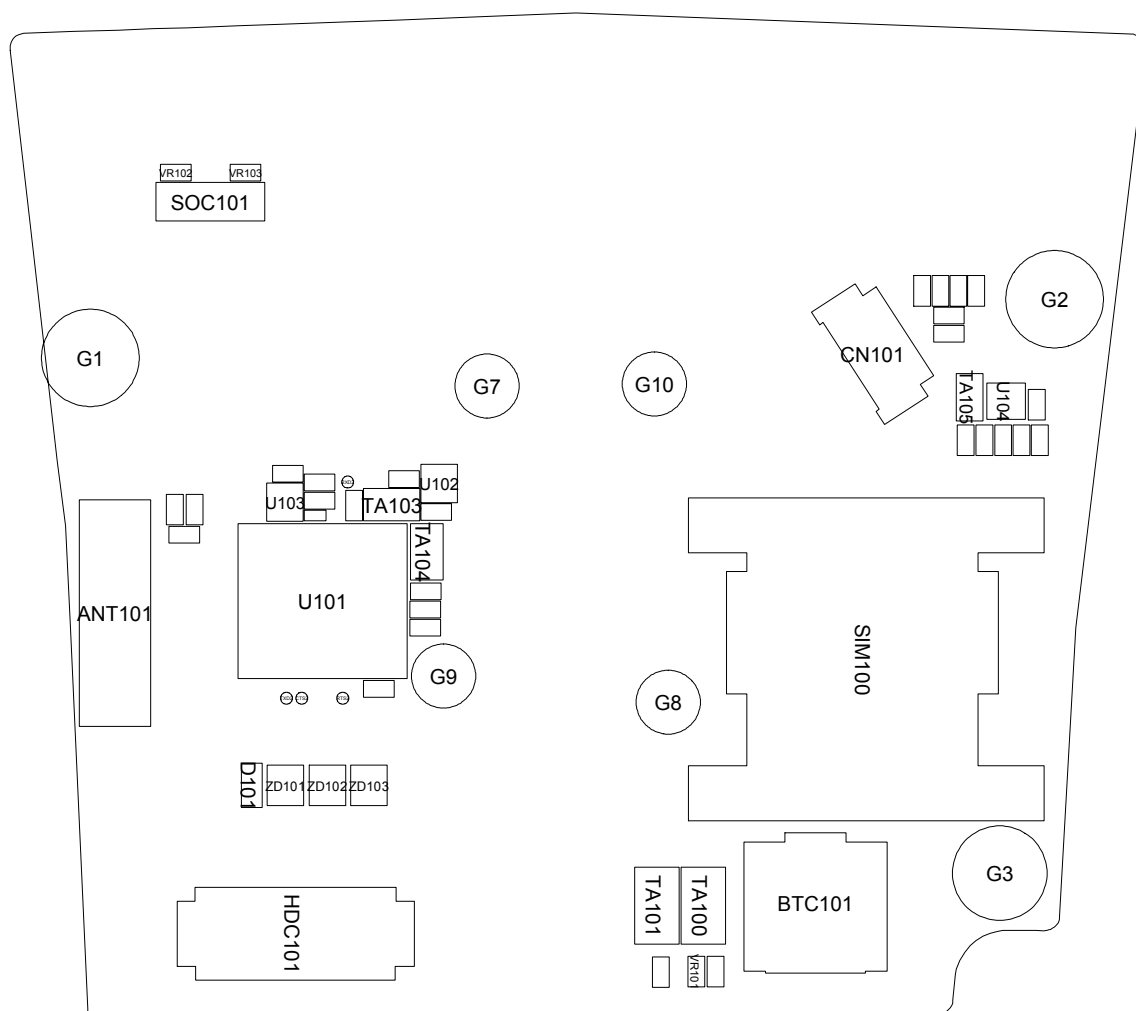
5. SGH-E910 PCB Diagrams

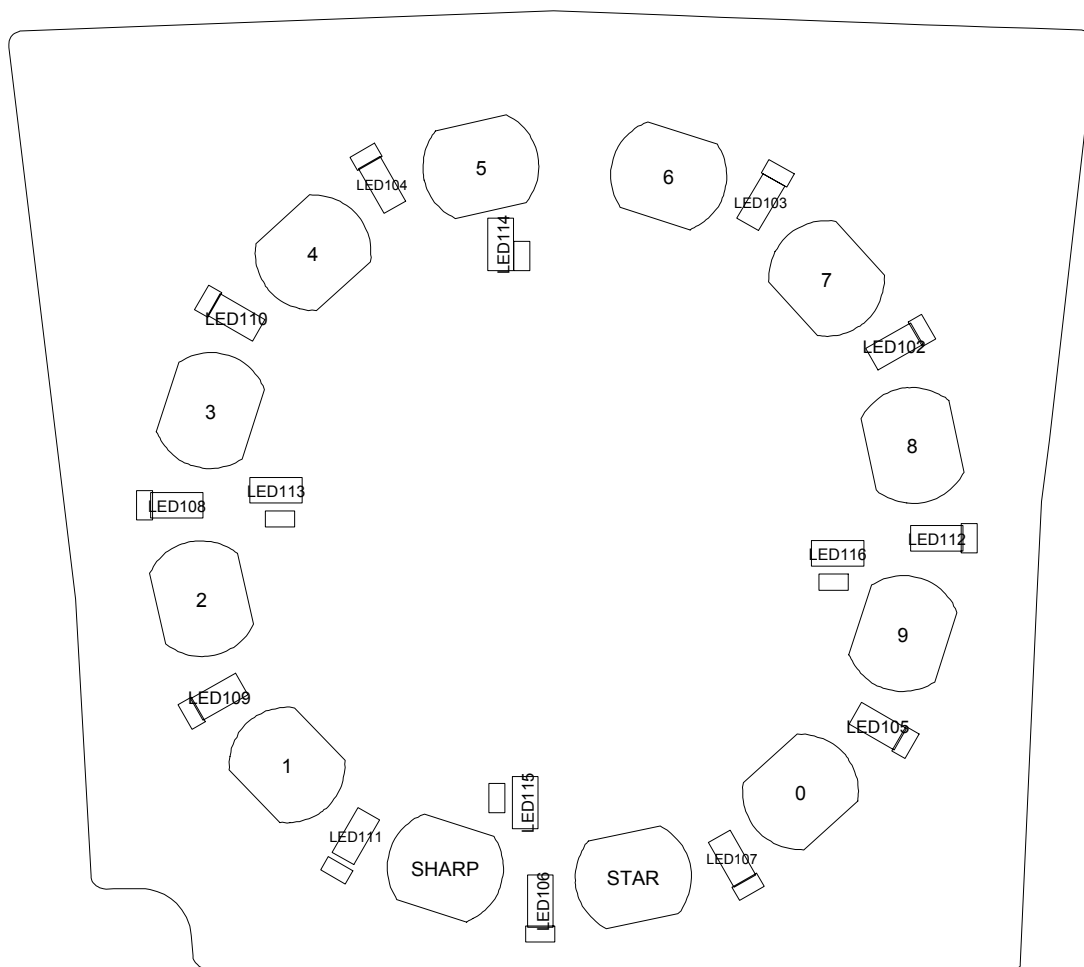
5-1. RF



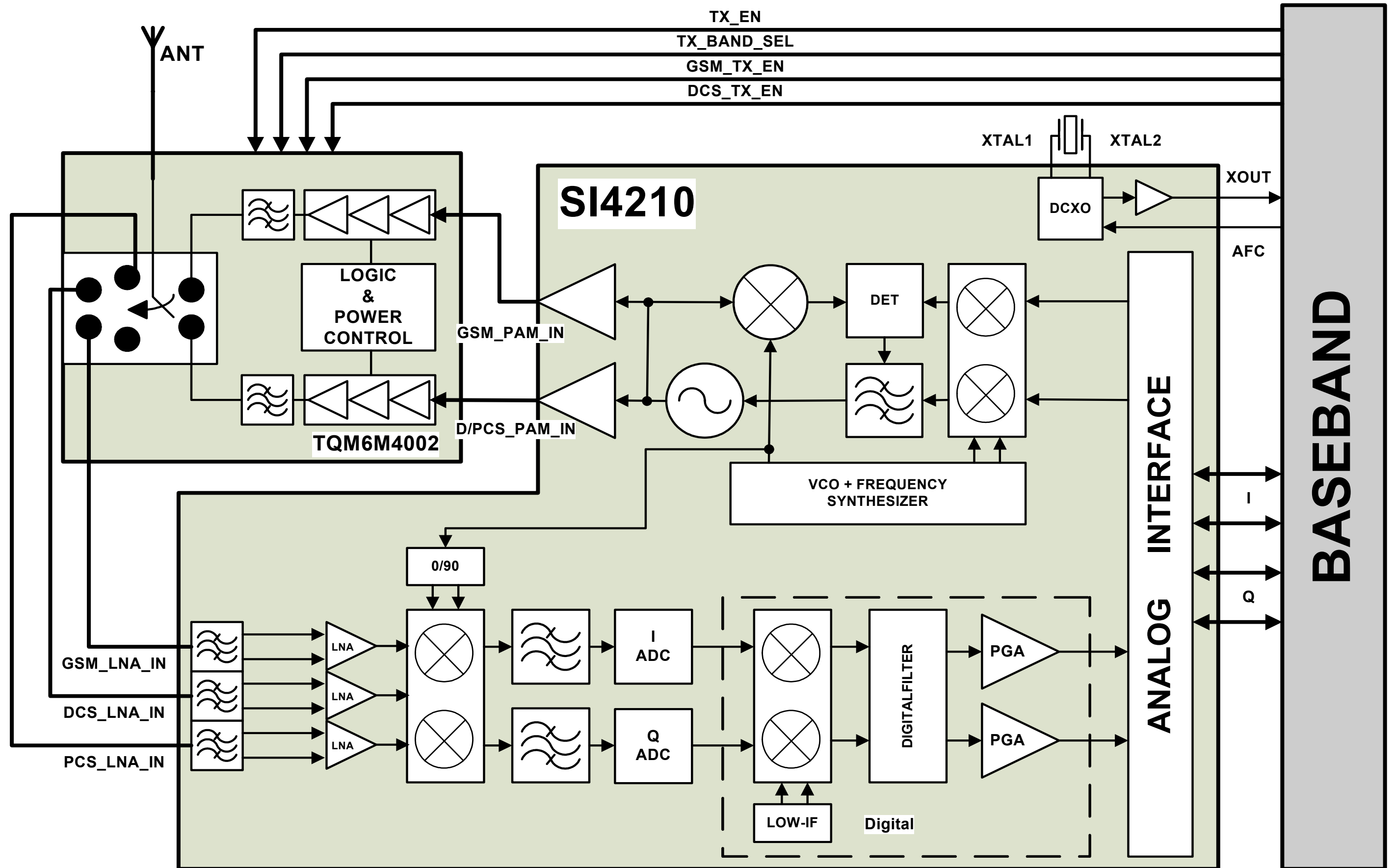


5-2. KEY





6. SGH-E910 Block Diagrams



**SAMSUNG
ELECTRONICS**

