

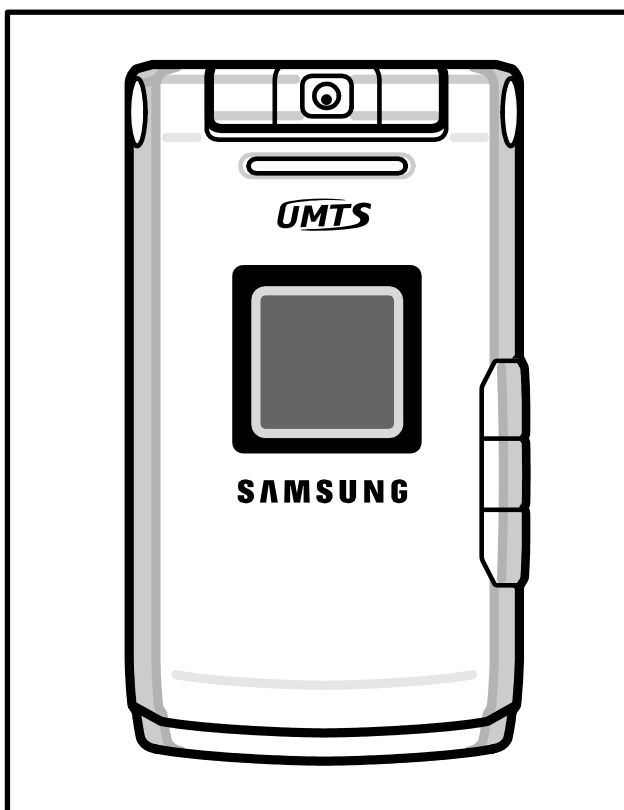
SAMSUNG

UMTS TELEPHONE

SGH-Z510

SERVICE *Manual*

UMTS TELEPHONE



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1. SGH-Z510 Specification

1-1. UMTS General Specification

	GSM900 Phase 1	EGSM 900 Phase 2	DCS1800 Phase 1	PCS1900	WCDMA 2100
Freq. Band[MHz] Uplink/Downlink	890~915 935~960	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990	1920~1980 2110~2170
ARFCN range	1~124	0~124 & 975~1023	512~885	512~810	9612~988 10562~10838
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz	190MHz
Mod. Bit rate/ Bit Period	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	270.833kbps 3.692us	4.096Mcps
Time Slot Period/Frame Period	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	576.9us 4.615ms	10ms
Modulation	0.3GMSK	0.3GMSK	0.3GMSK	0.3GMSK	QPSK
MS Power	33dBm~13dBm	33dBm~5dBm	30dBm~0dBm	30dBm~0dBm	24dBm ~ -50dBm
Power Class	5pcl ~ 15pcl	5pcl ~ 19pcl	0pcl ~ 15pcl	0pcl ~ 15pcl	Power Class3
Sensitivity	-102dBm	-102dBm	-100dBm	-100dBm	-106.7dBm
TDMA Mux	8	8	8	8	-
Cell Radius	35Km	35Km	2Km	-	-

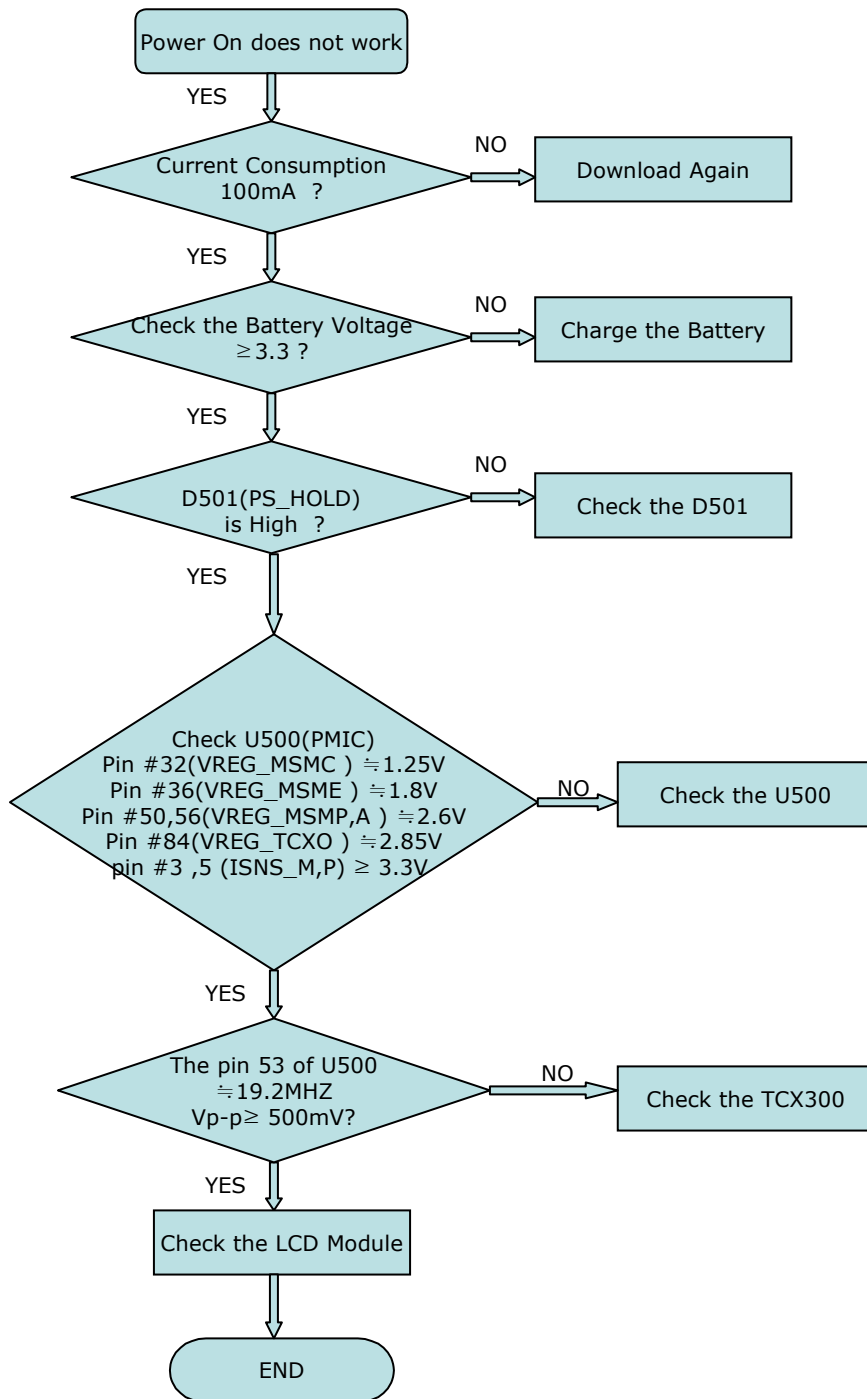
1-2. GSM Tx Power Class

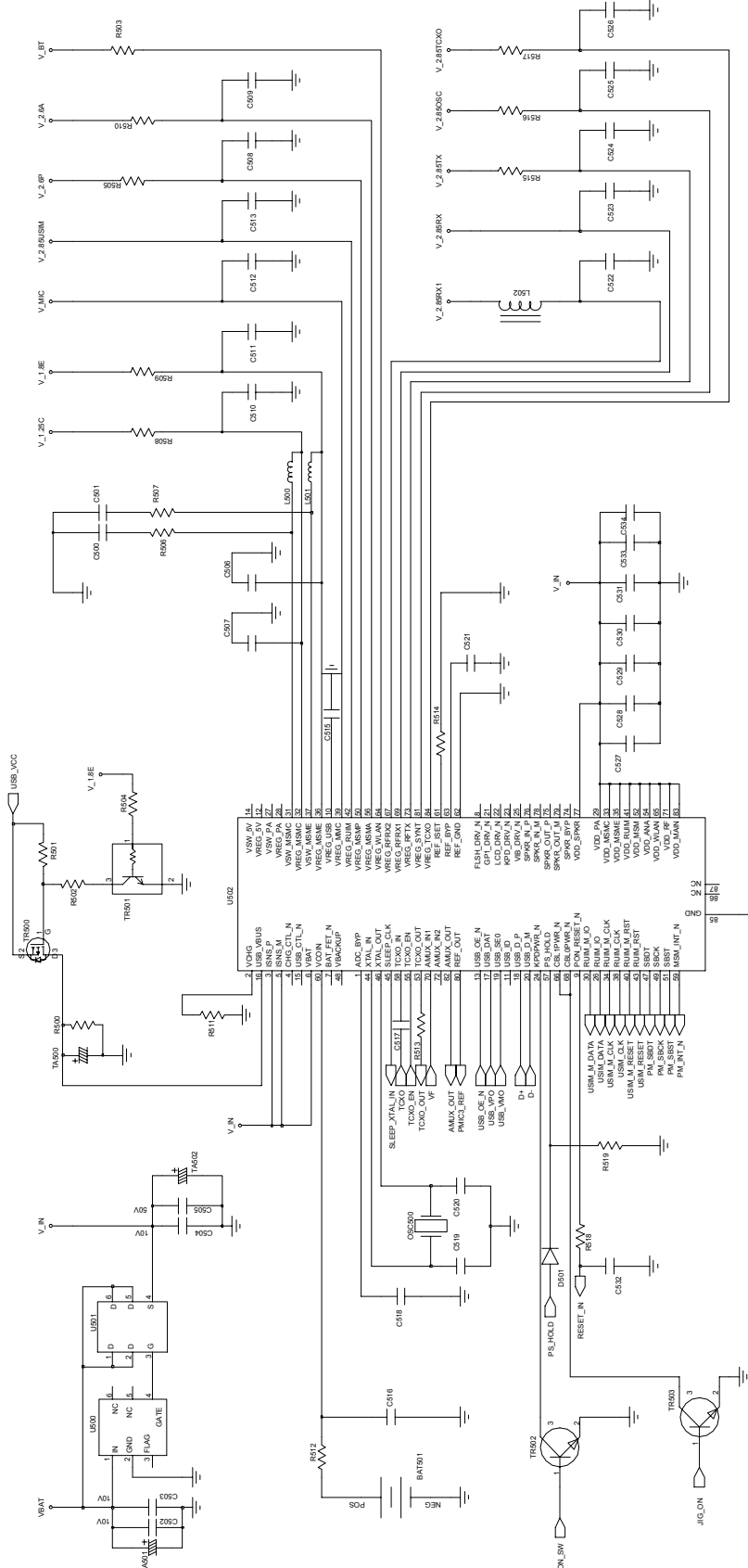
TX Power control level	GSM900	TX Power control level	DCS1800	TX Power control level	PCS1900
5	33±2 dBm	0	30±3 dBm	0	30±3 dBm
6	31±2 dBm	1	28±3 dBm	1	28±3 dBm
7	29±2 dBm	2	26±3 dBm	2	26±3 dBm
8	27±2 dBm	3	24±3 dBm	3	24±3 dBm
9	25±2 dBm	4	22±3 dBm	4	22±3 dBm
10	23±2 dBm	5	20±3 dBm	5	20±3 dBm
11	21±2 dBm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

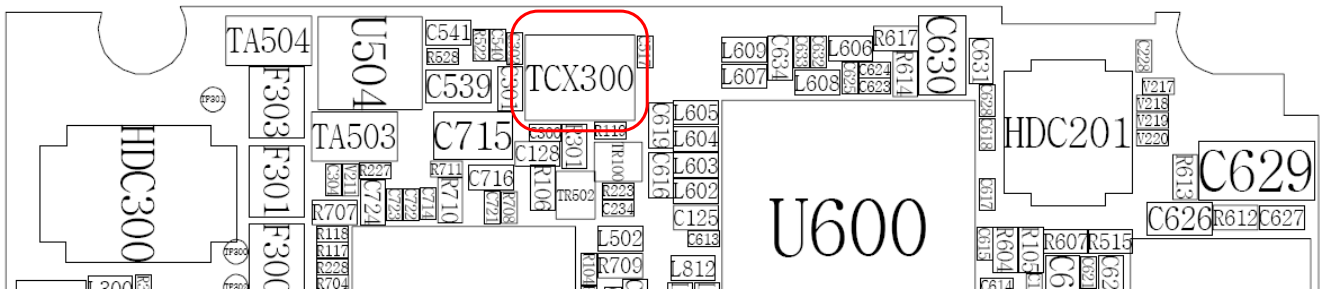
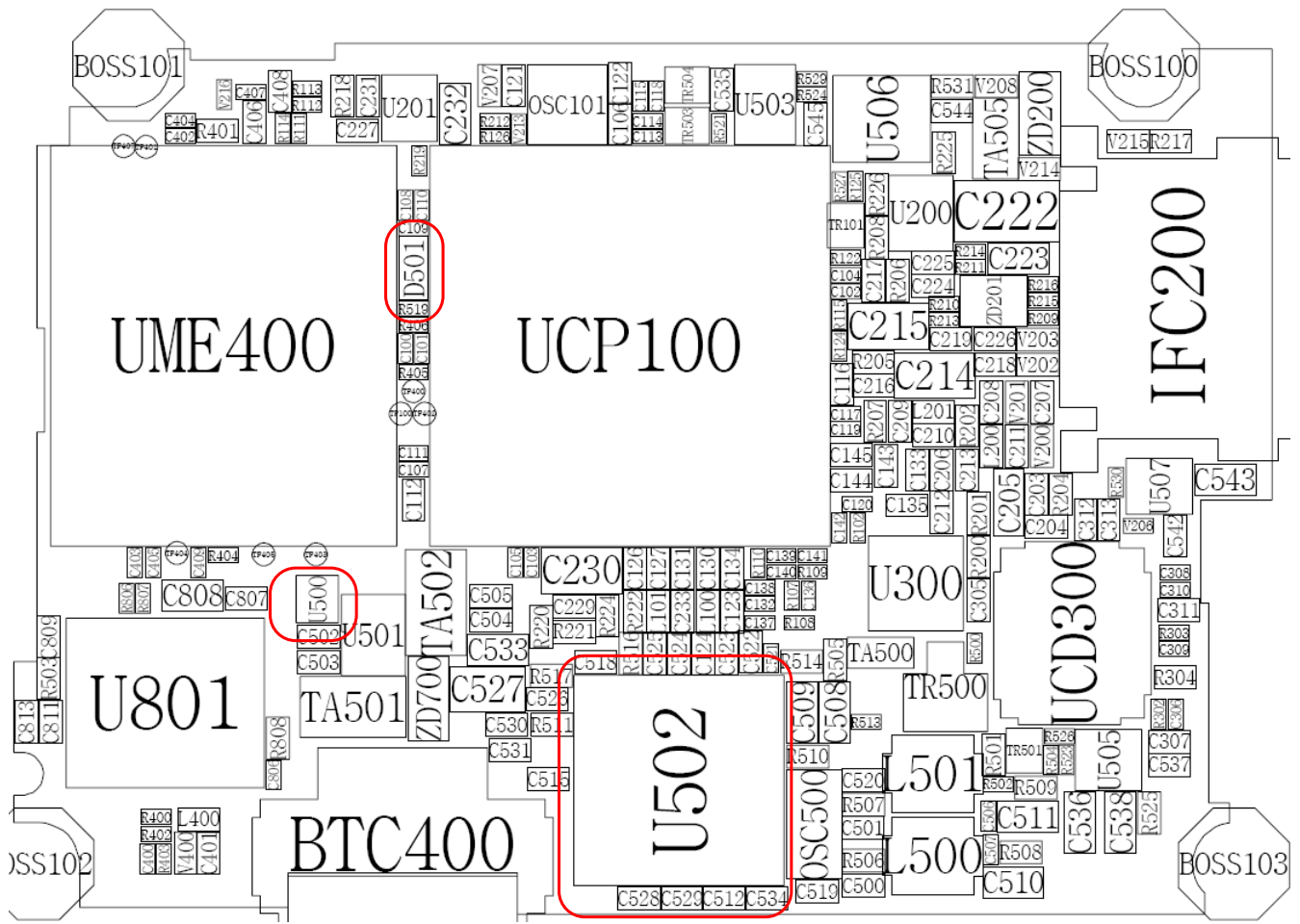
2. SGH-Z510 Flow Chart of Troubleshooting and Circuit Diagrams

2-1.Baseband

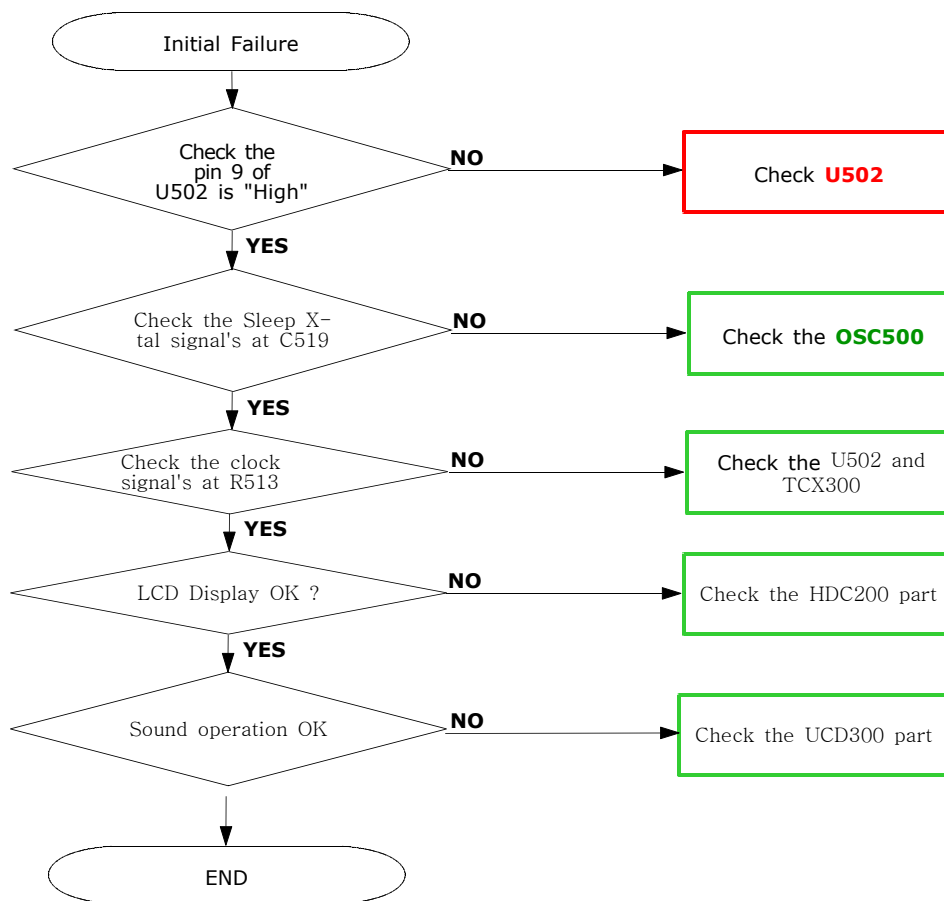
2-1-1. Power ON

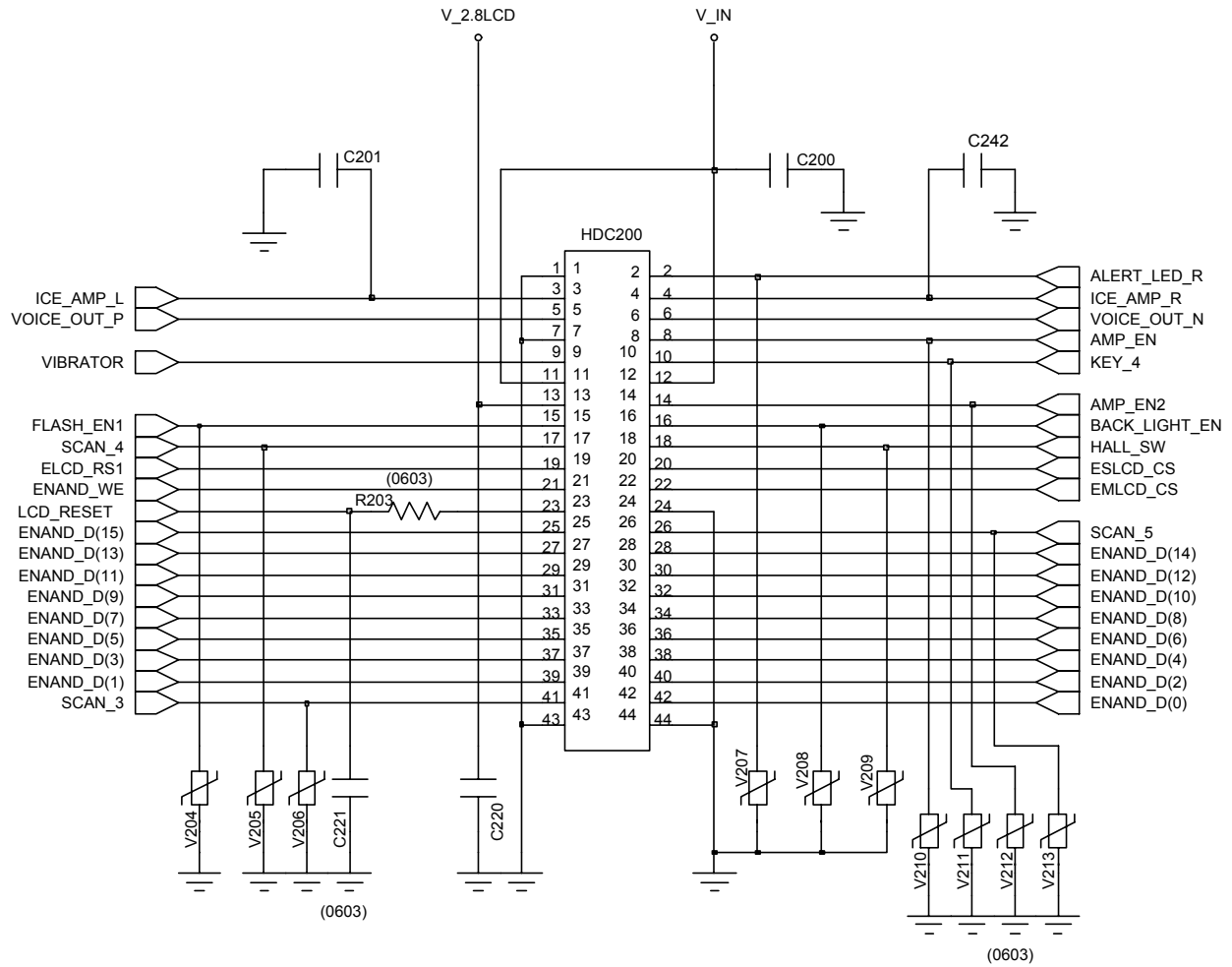


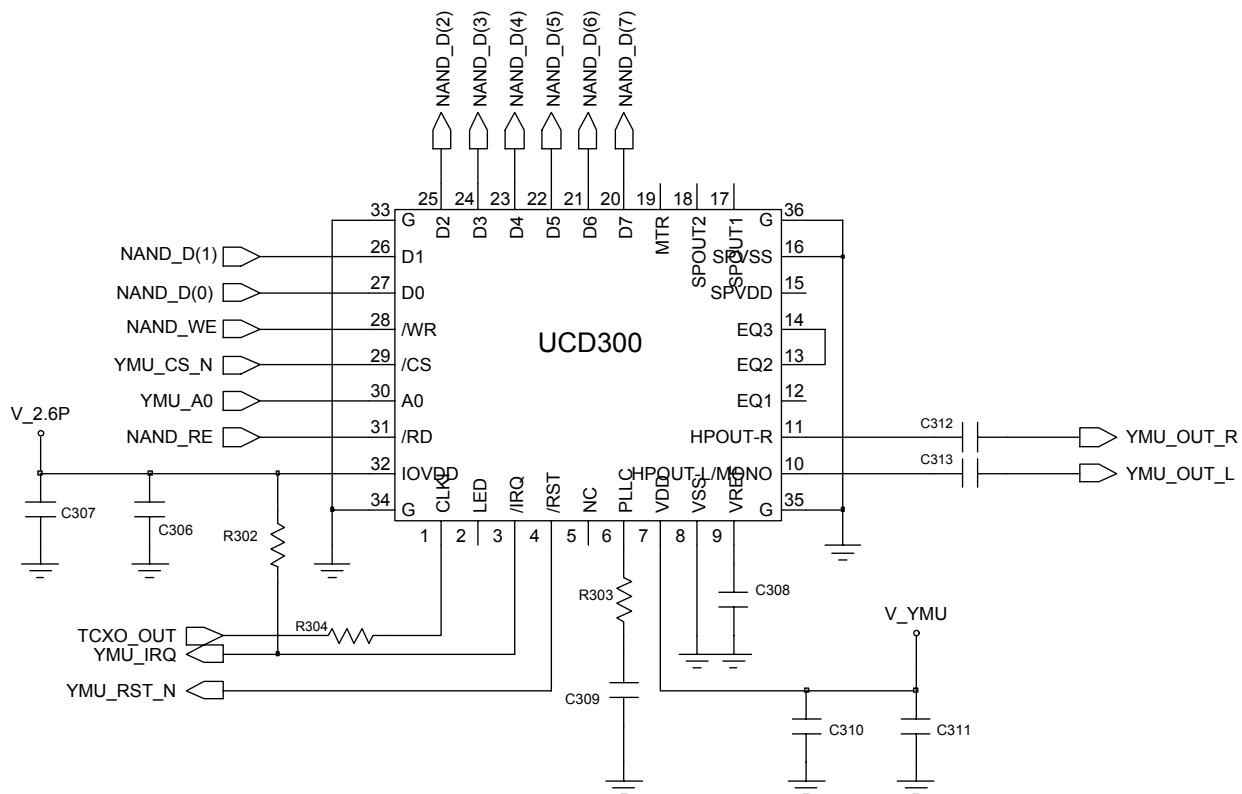


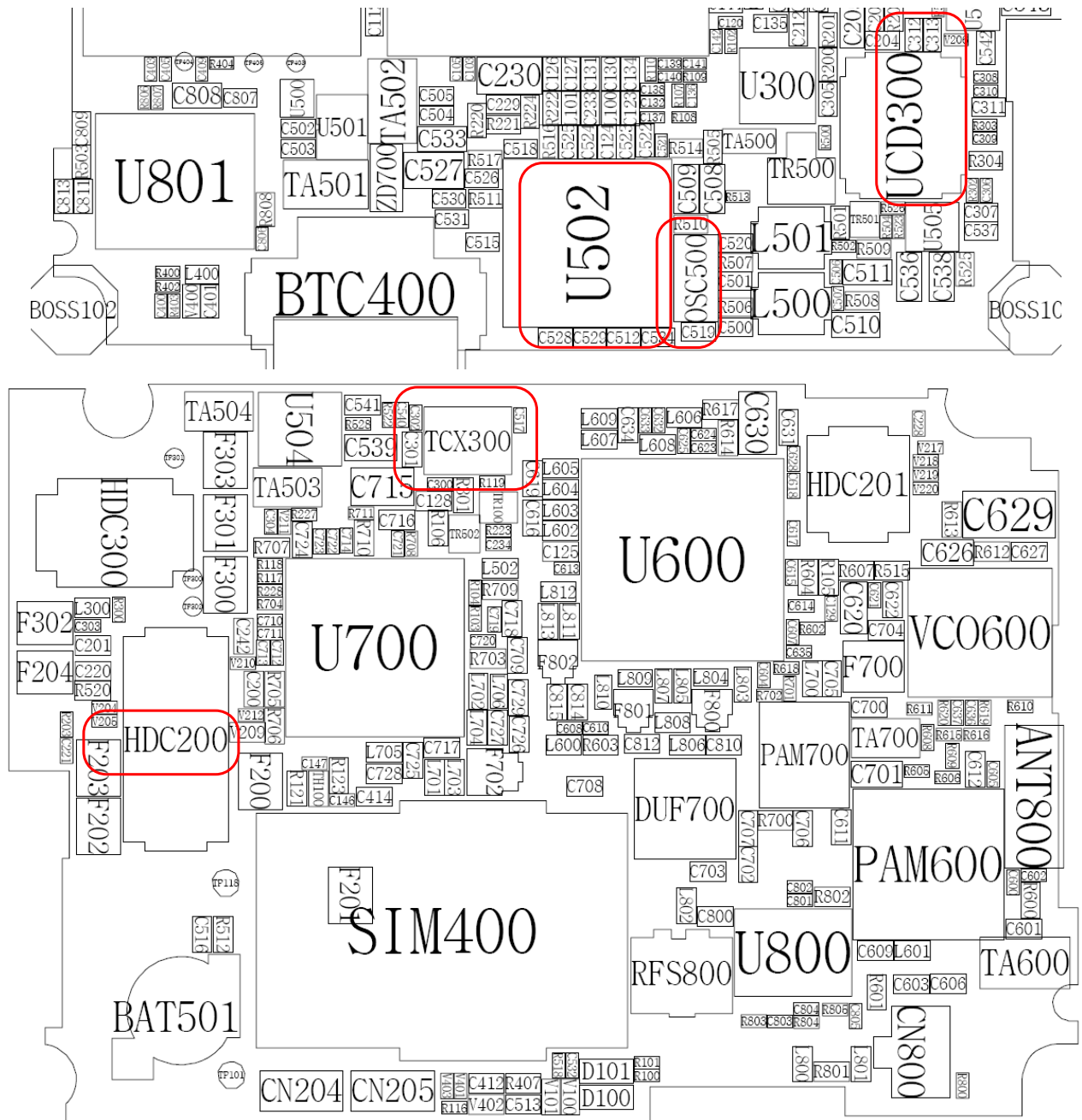


2-1-2. Initial

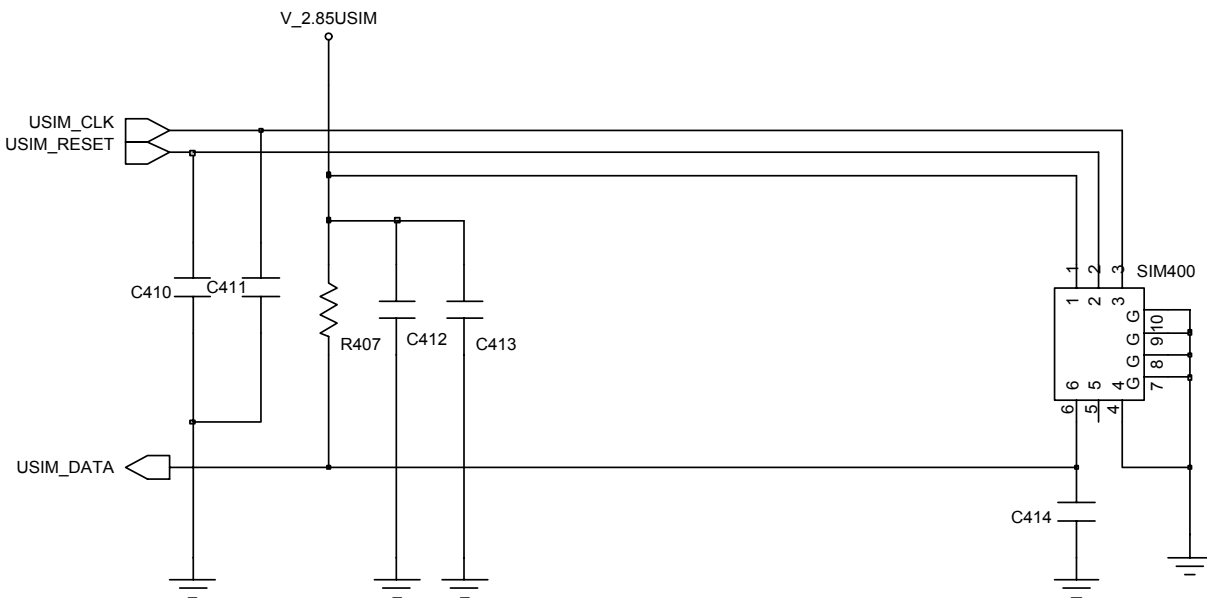
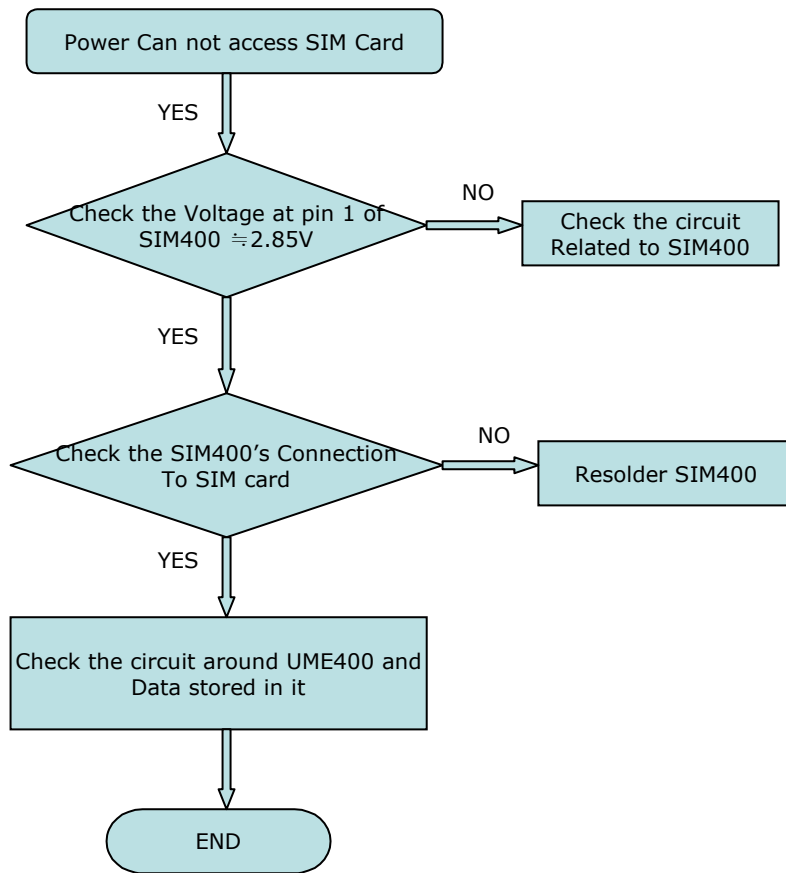


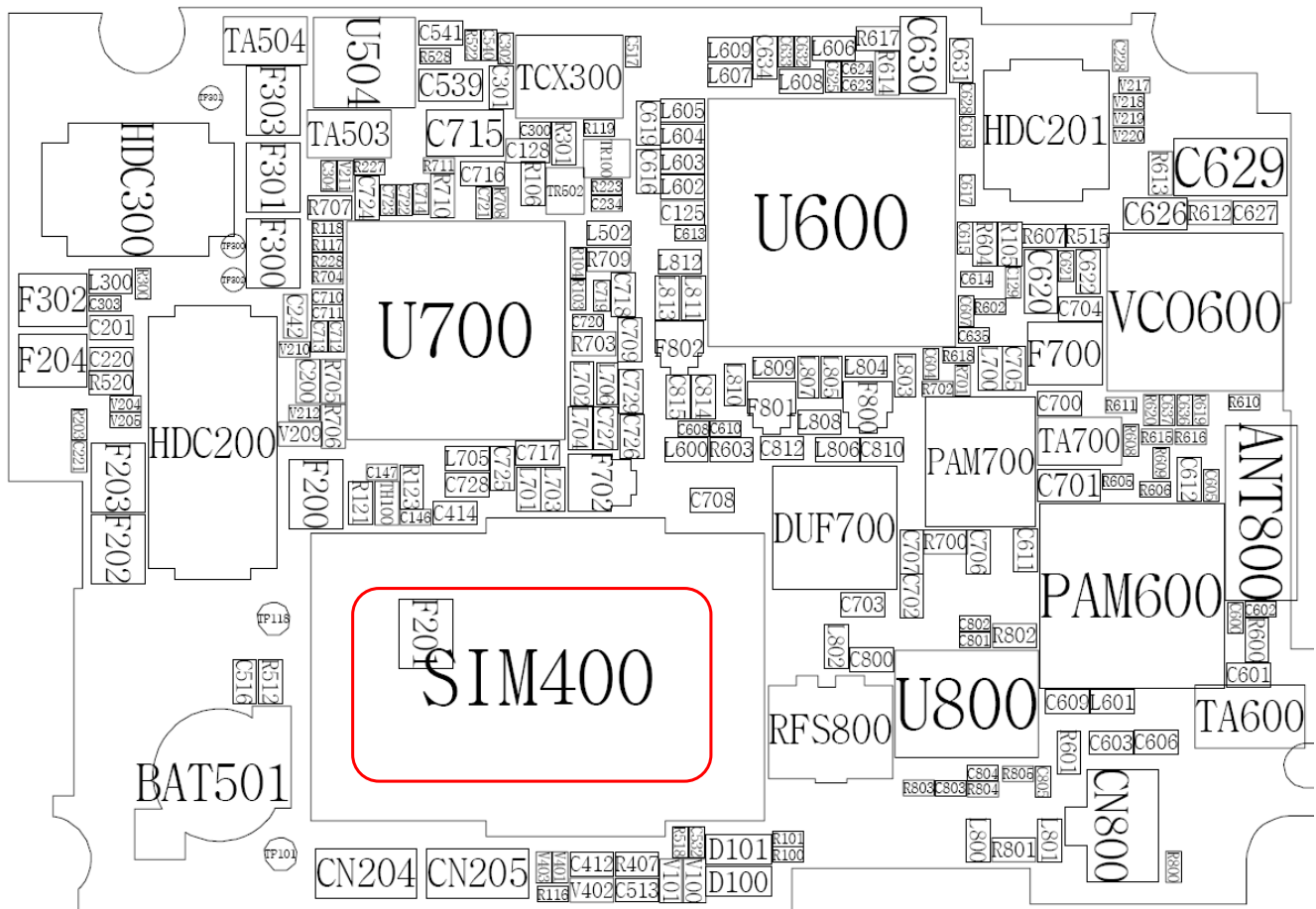


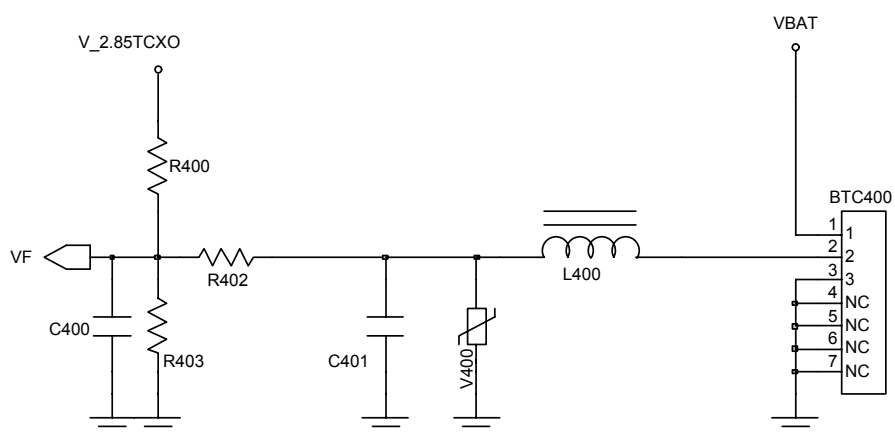


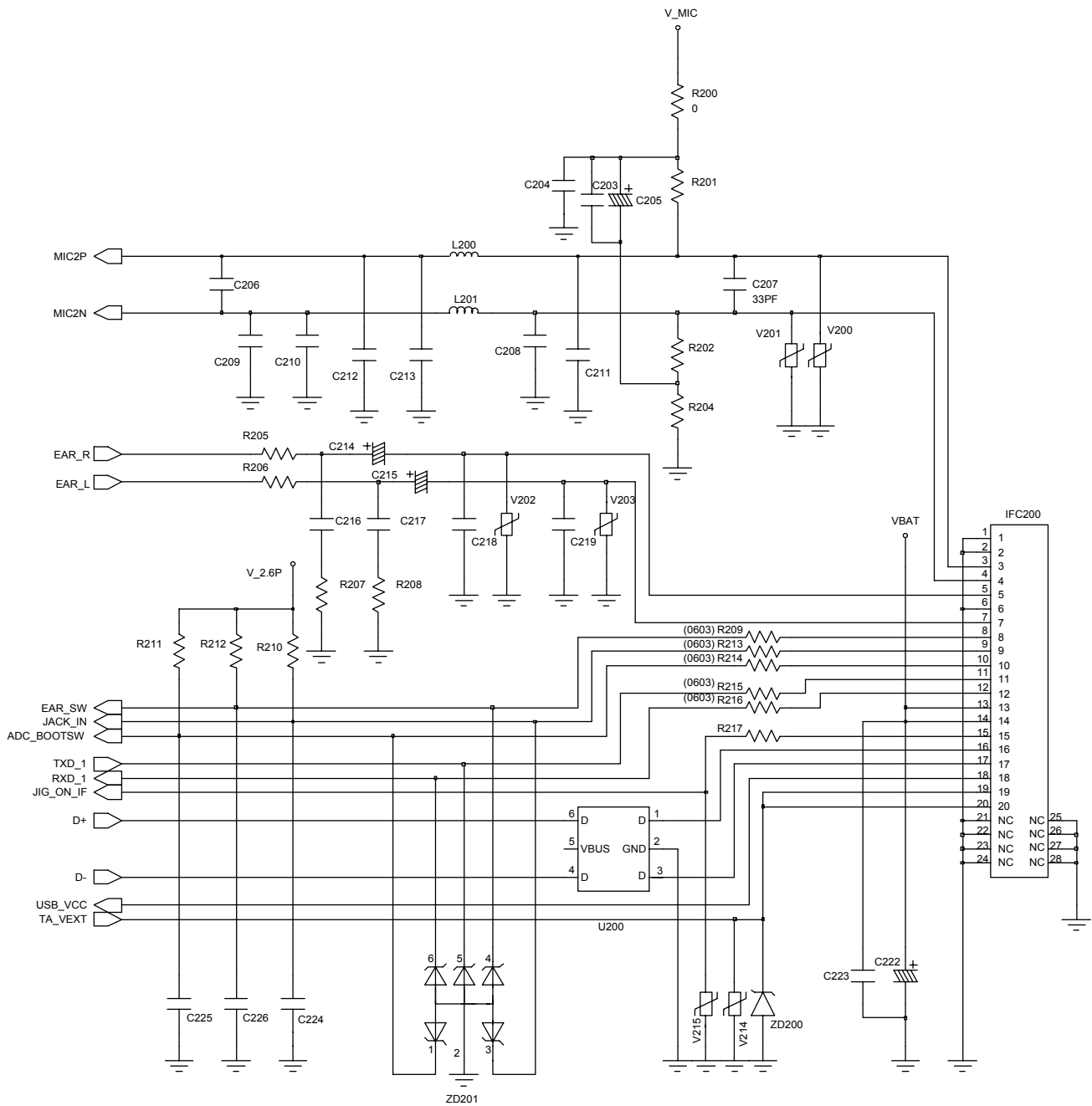


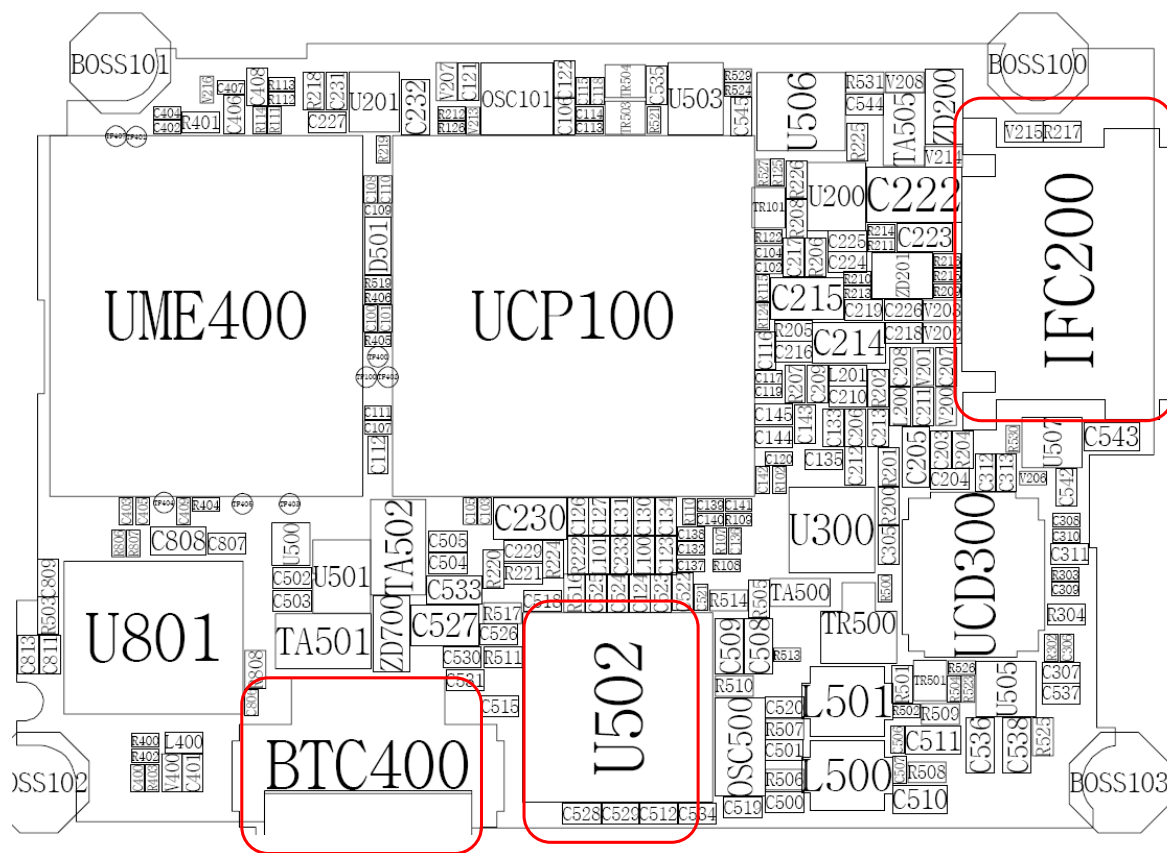
2-1-3. Sim Part



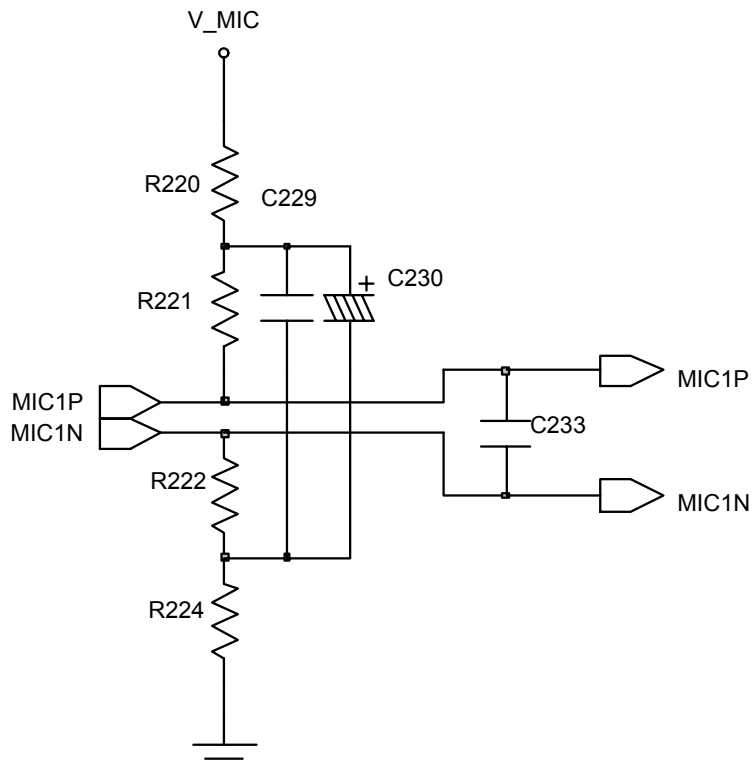
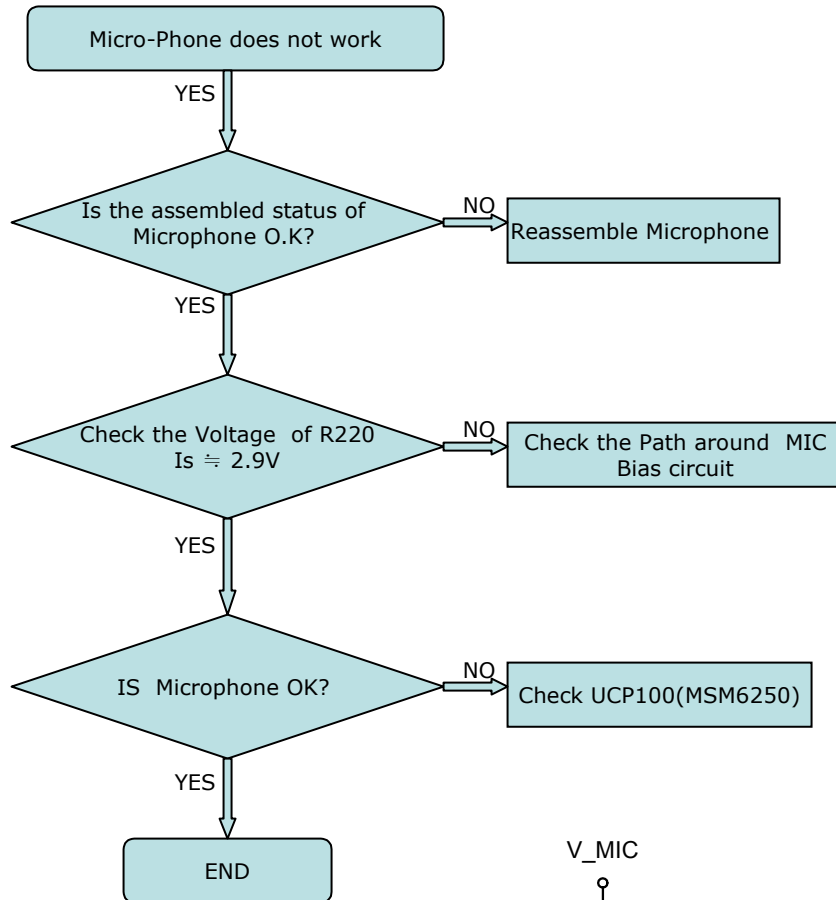


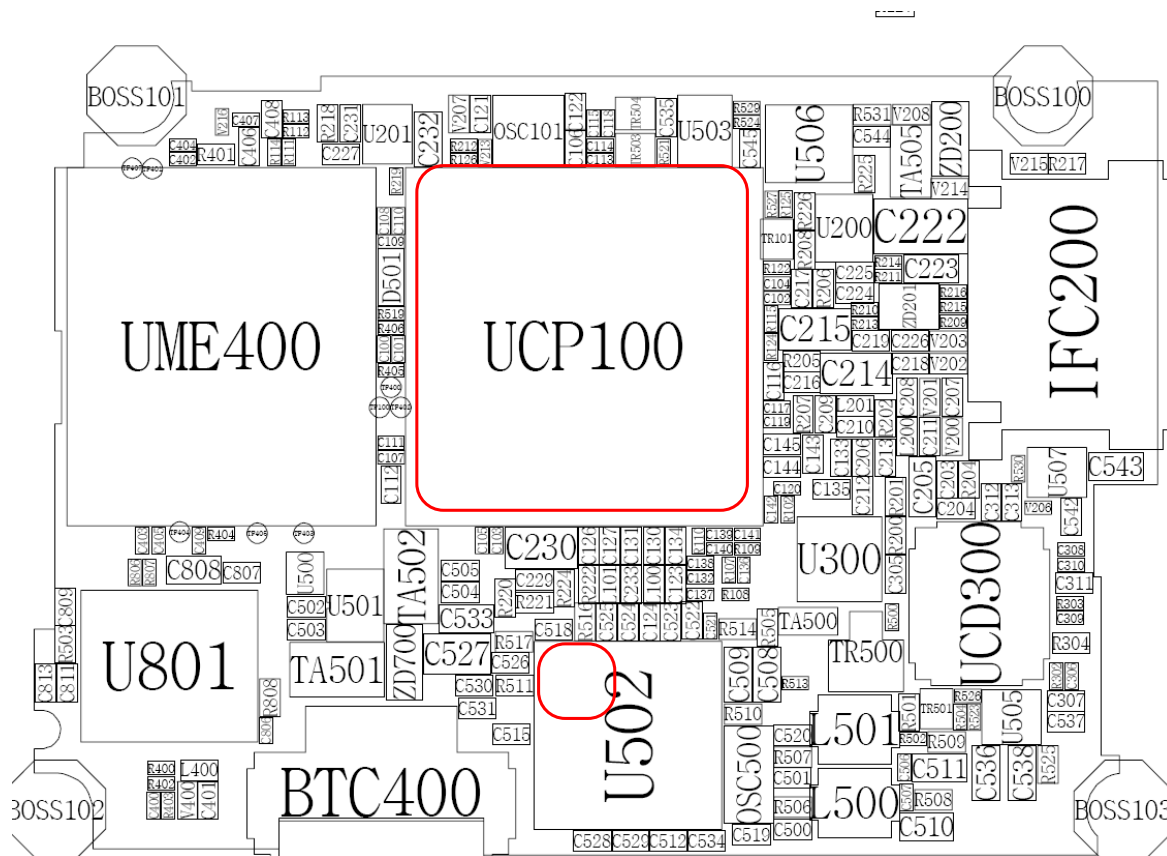


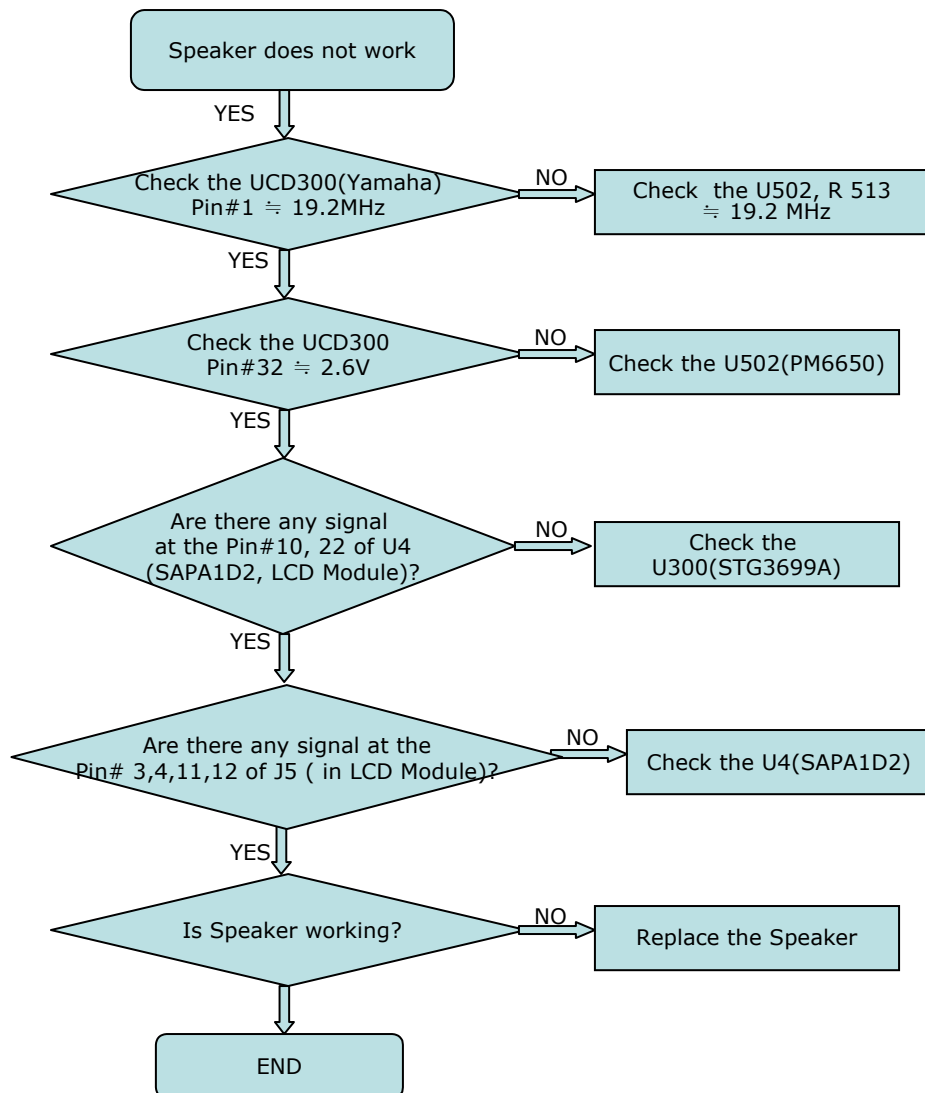




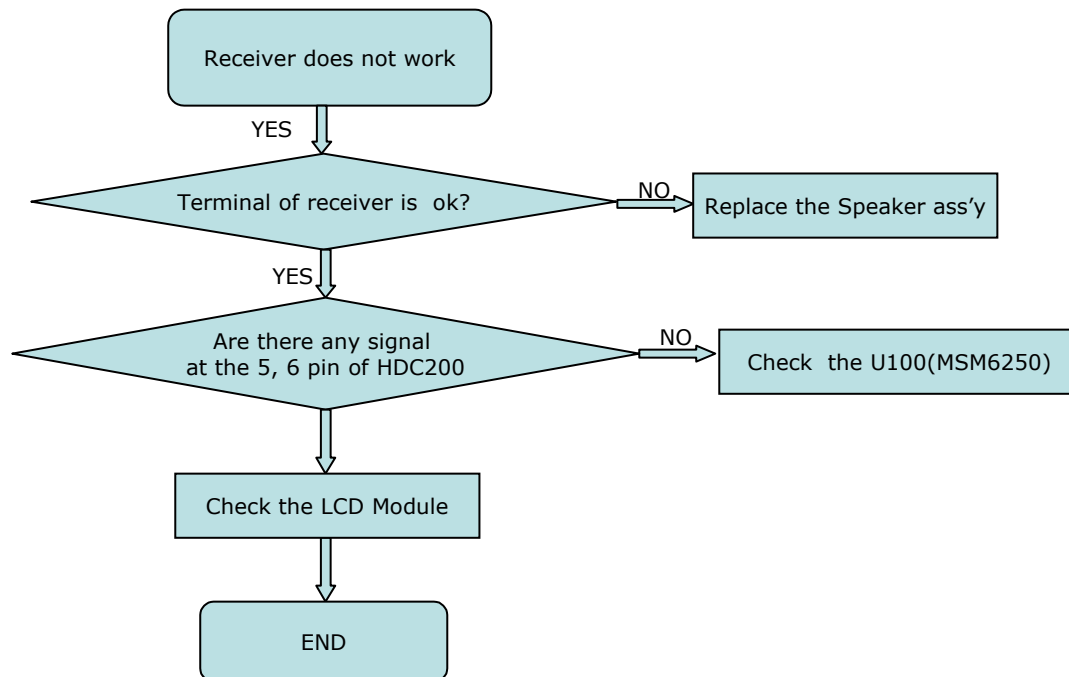
2-1-5. Microphone Part

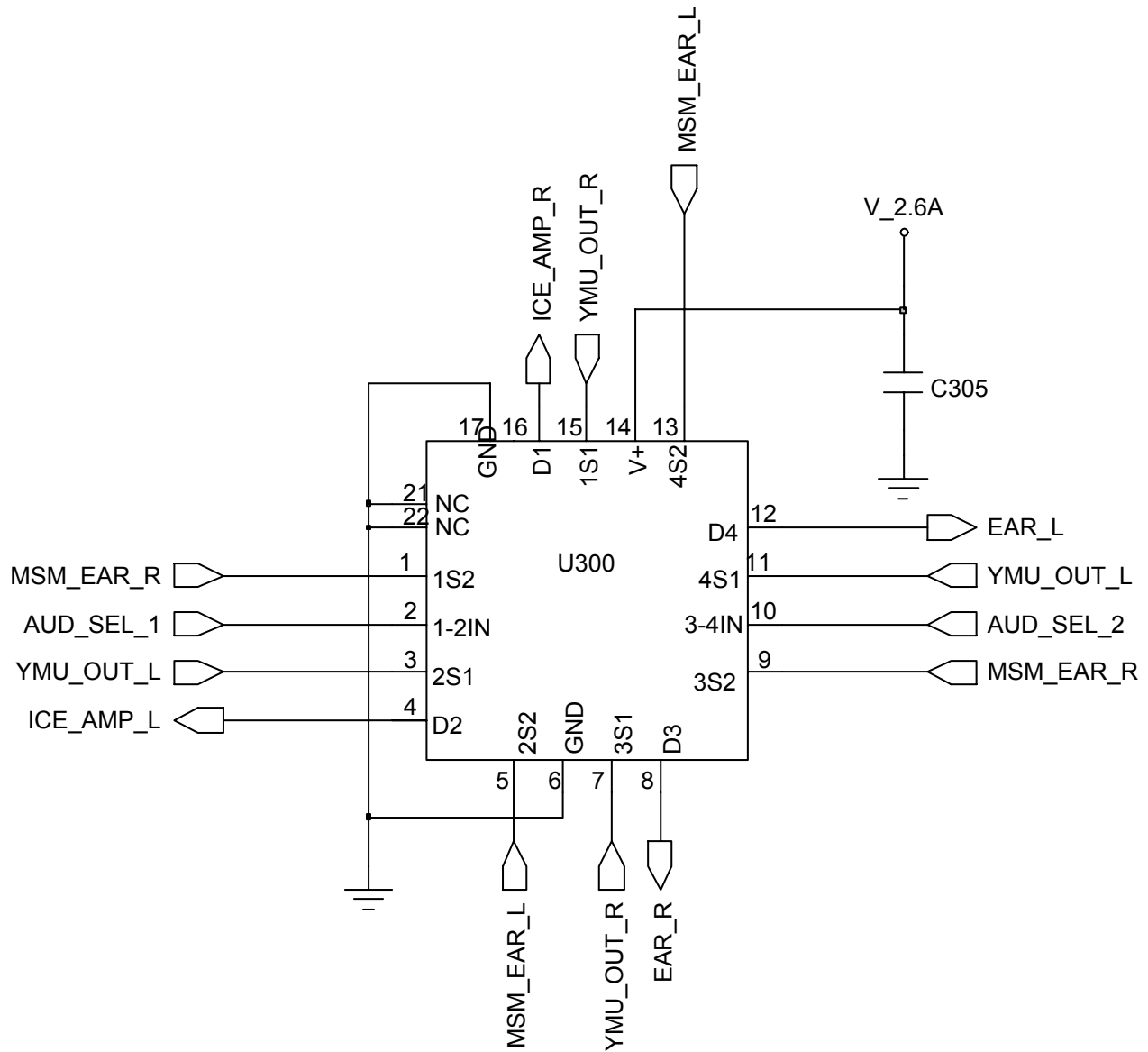


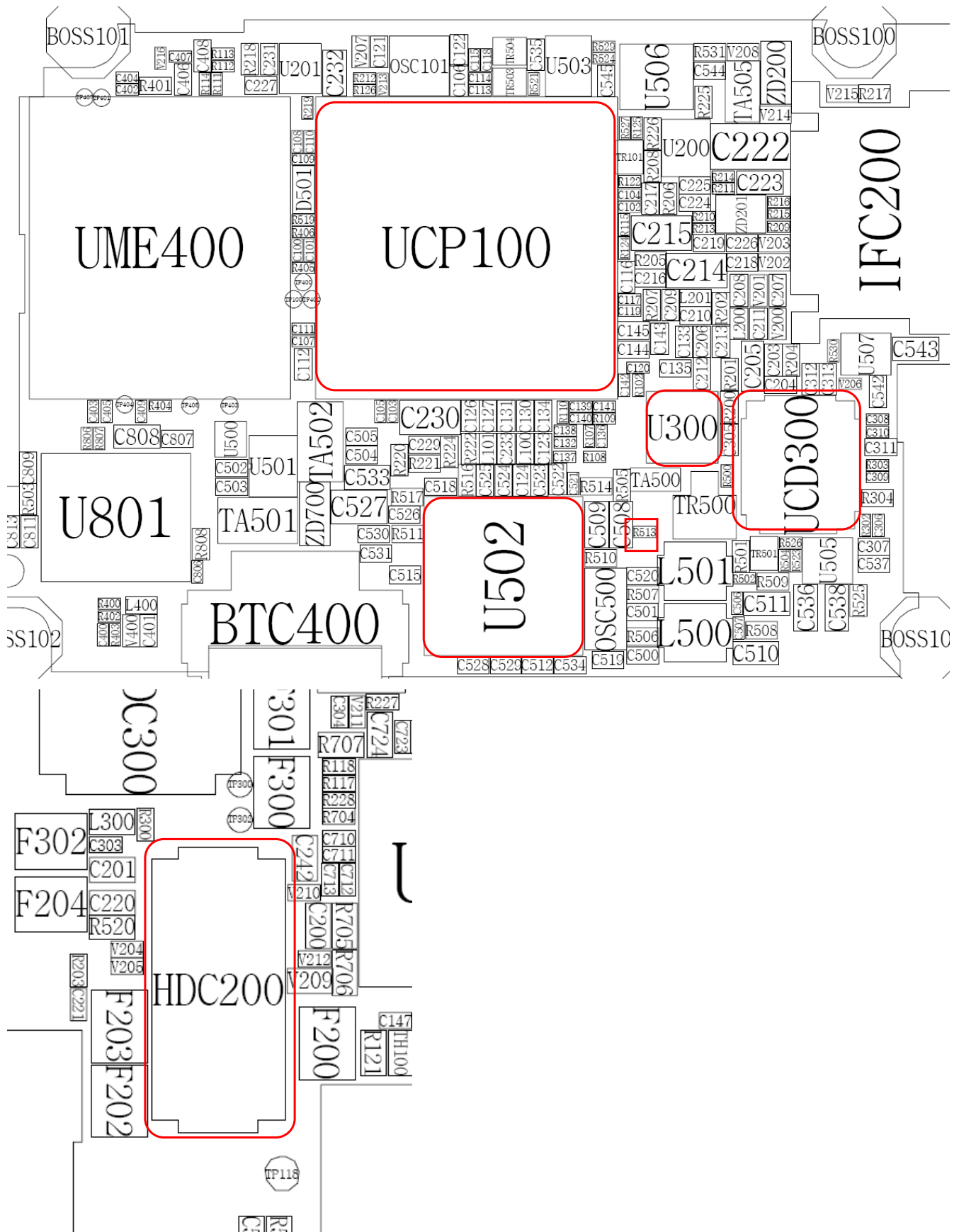


2-1-6. Speaker

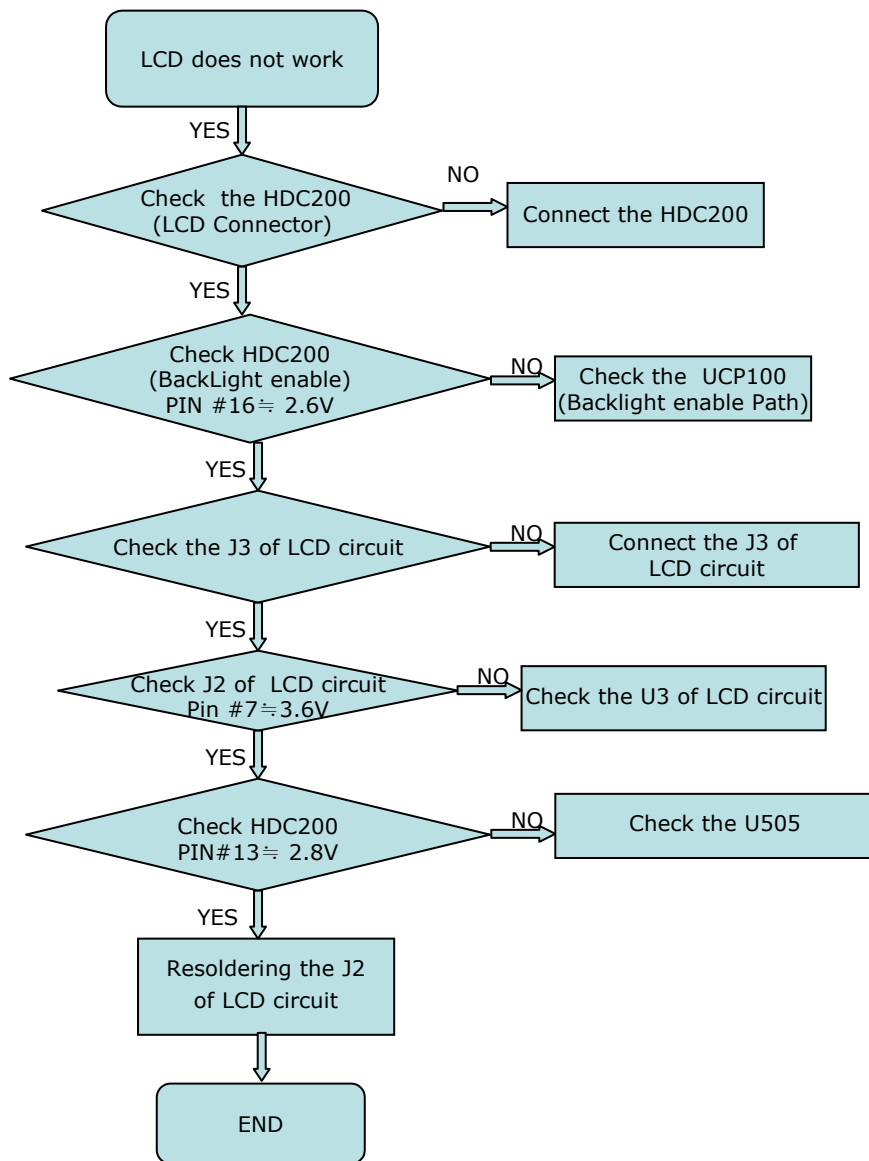
2-1-7. Receiver Part

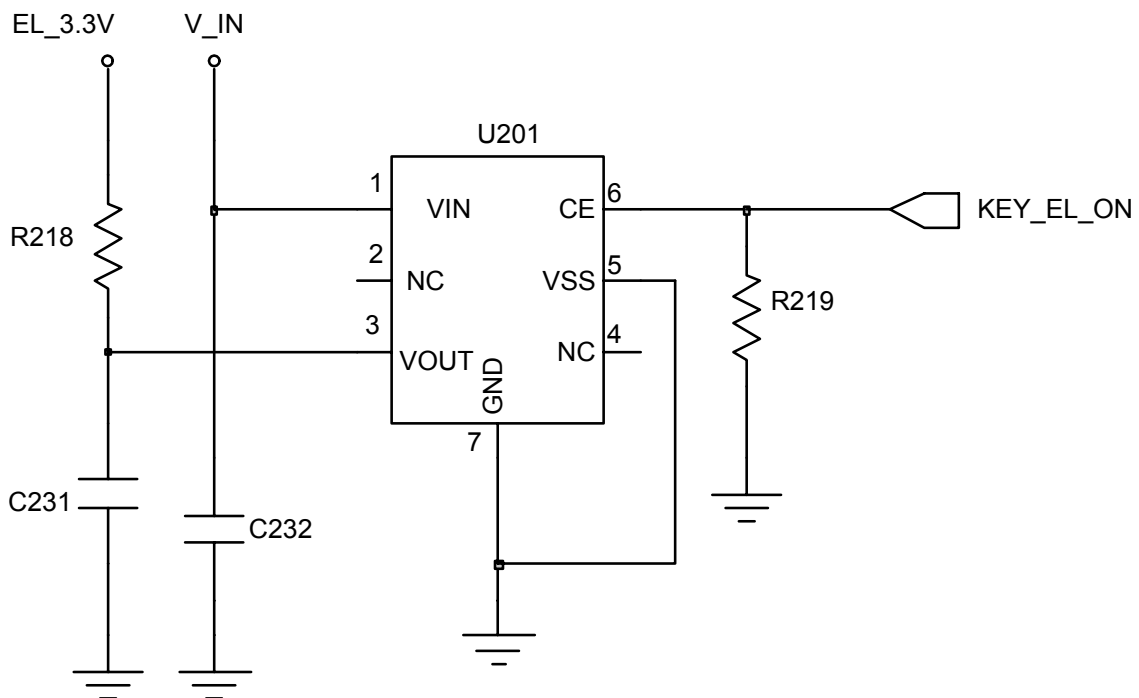
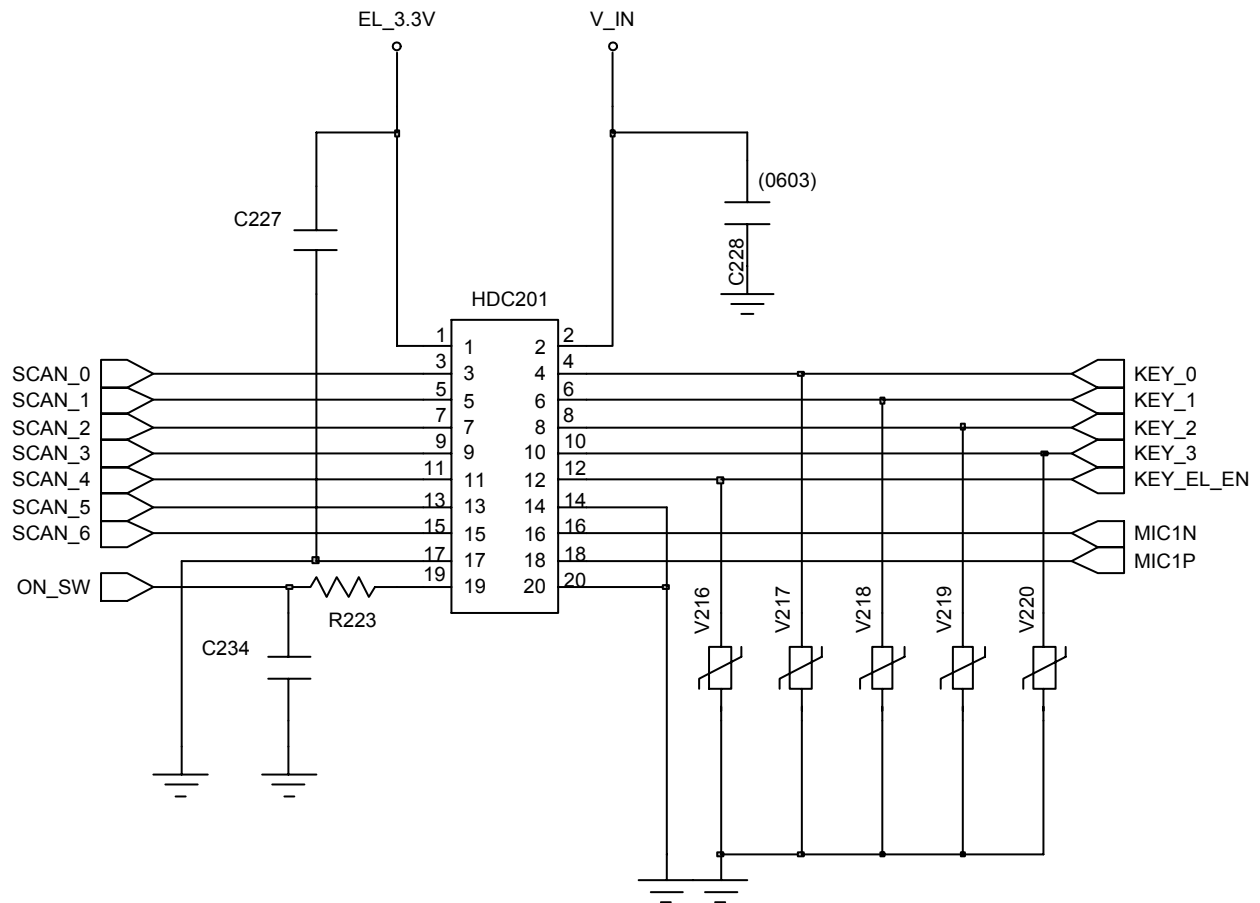


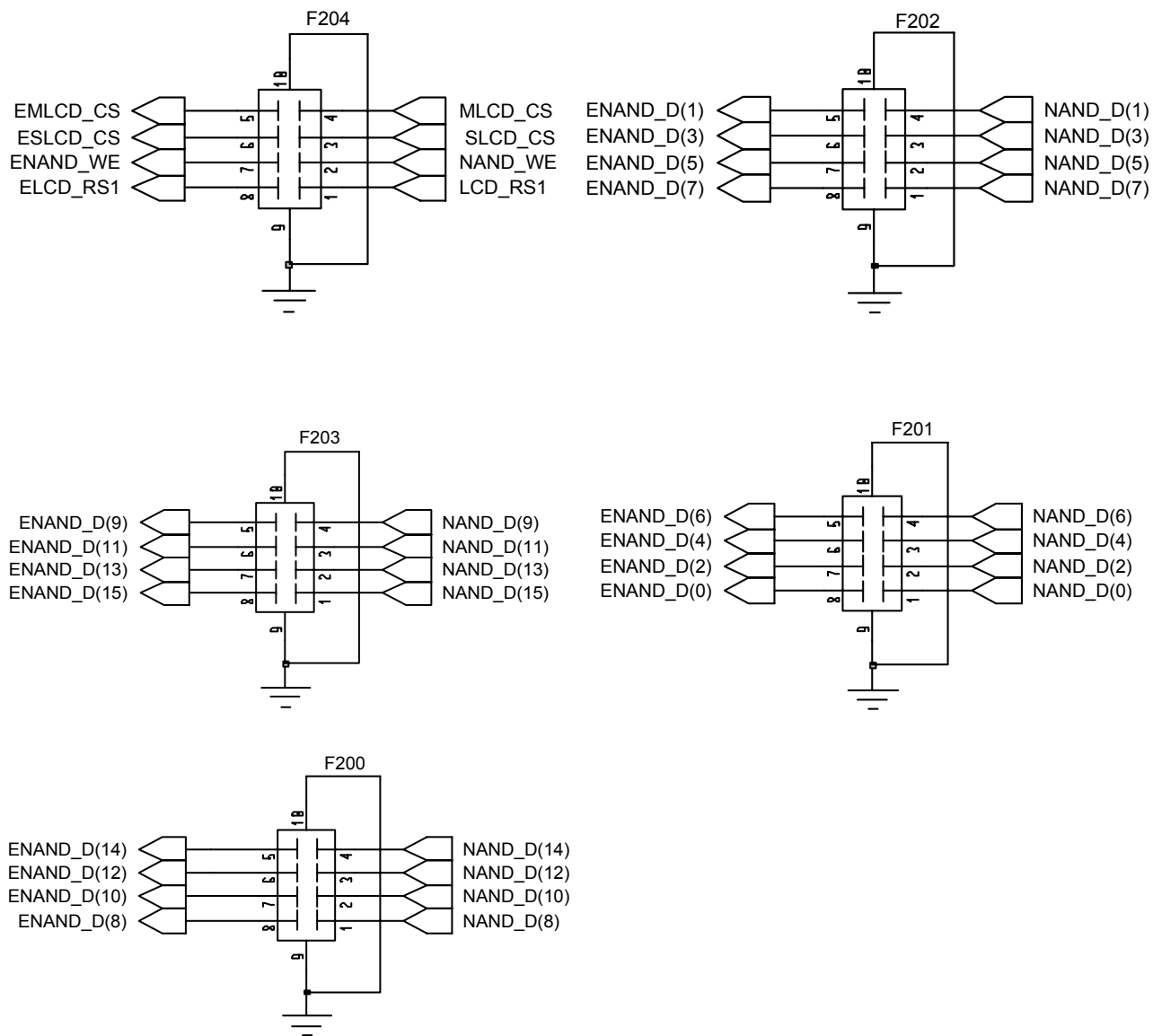


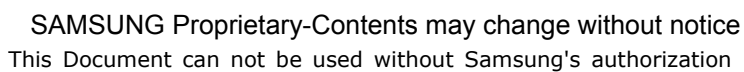


2-1-8. LCD

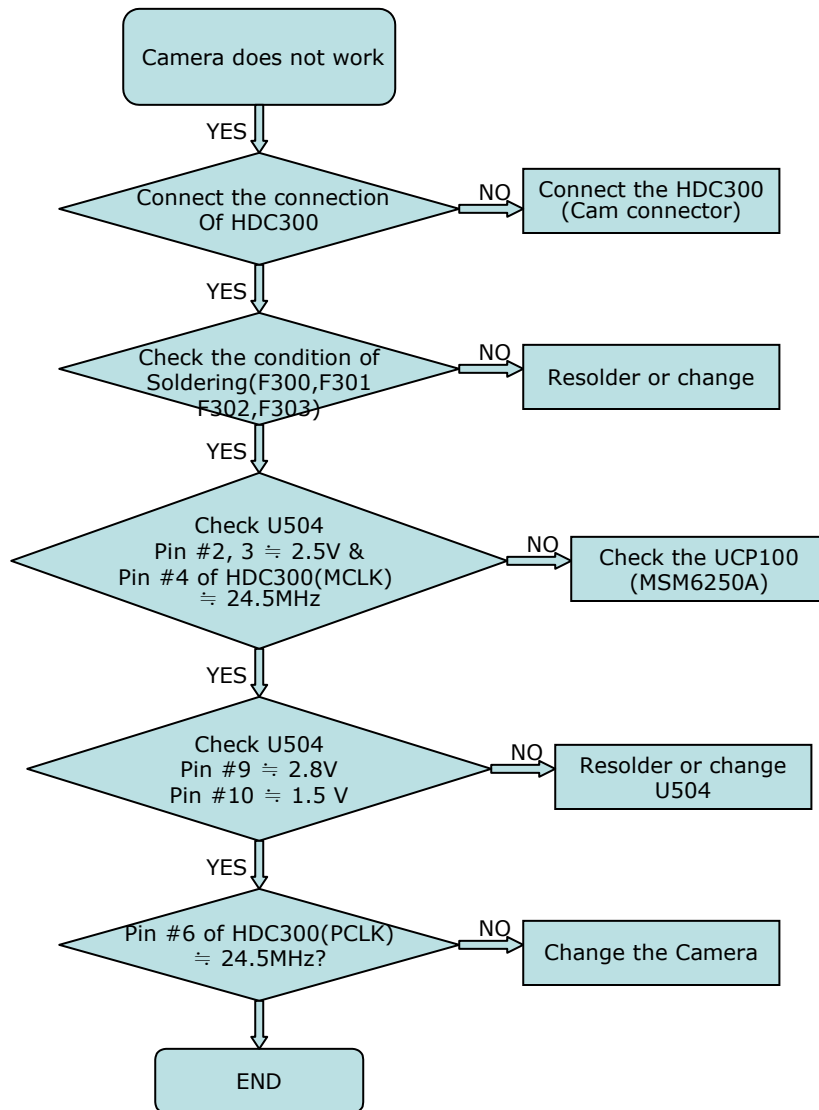


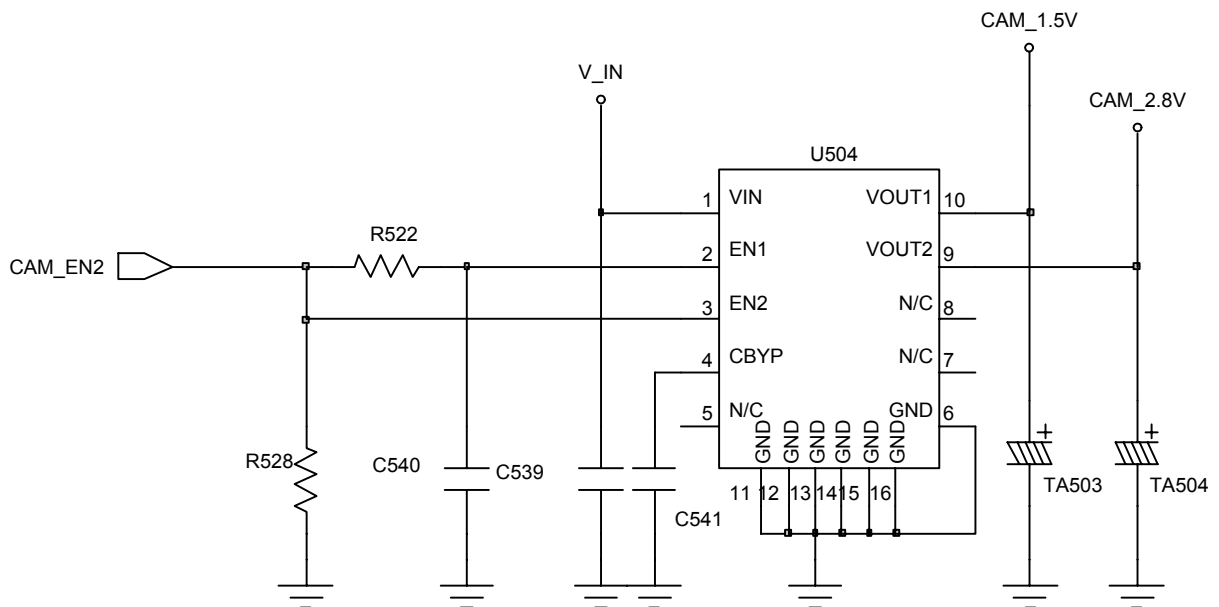
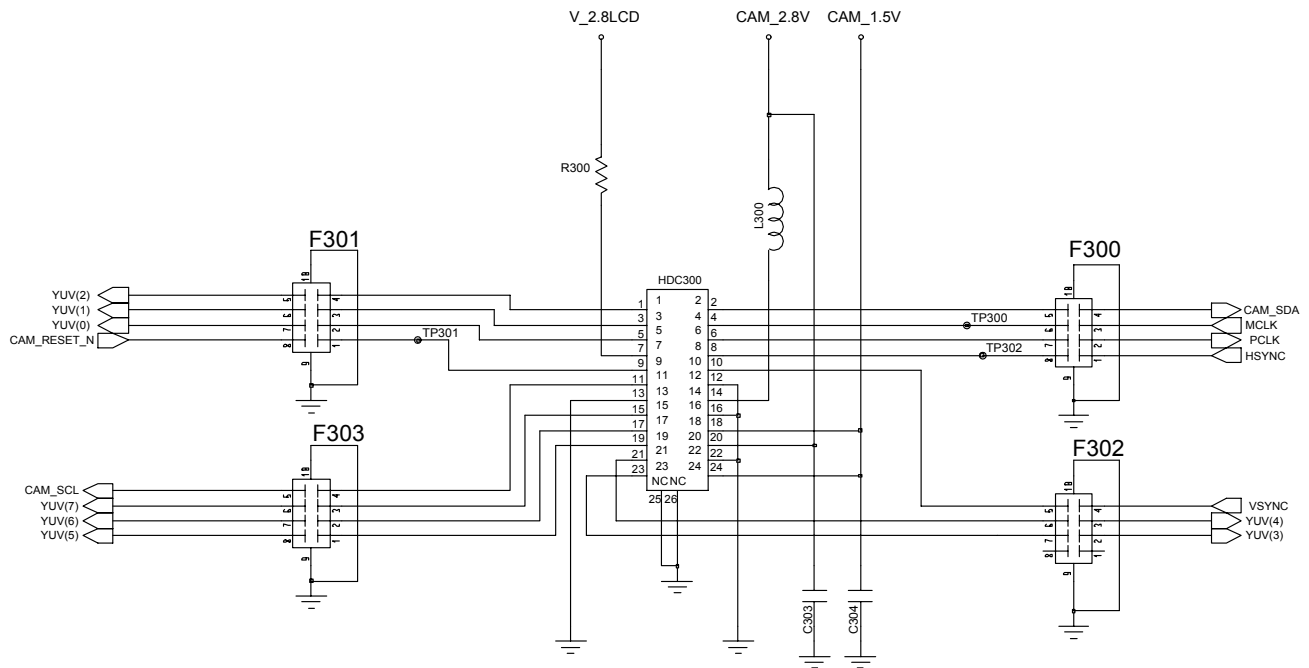


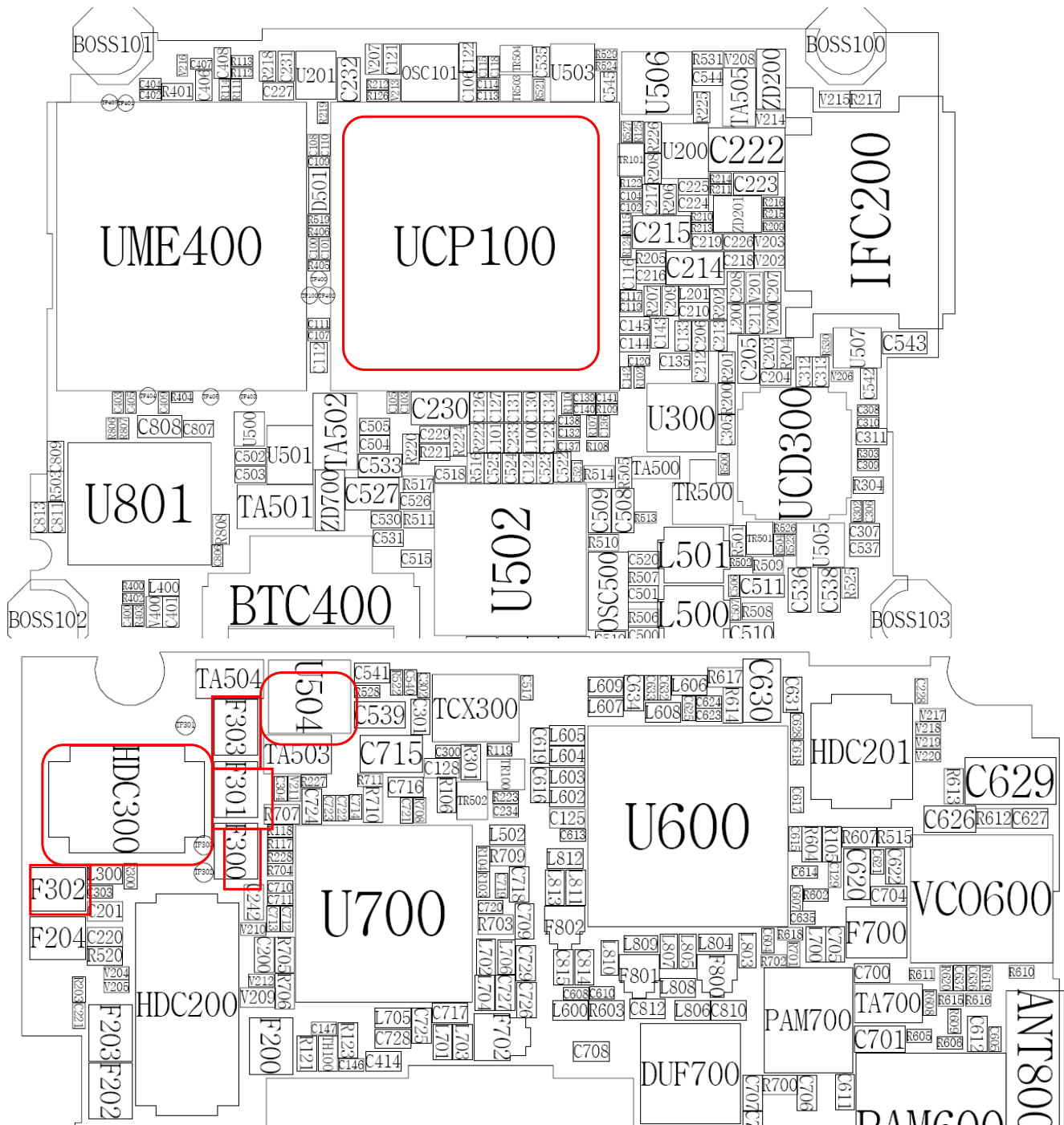


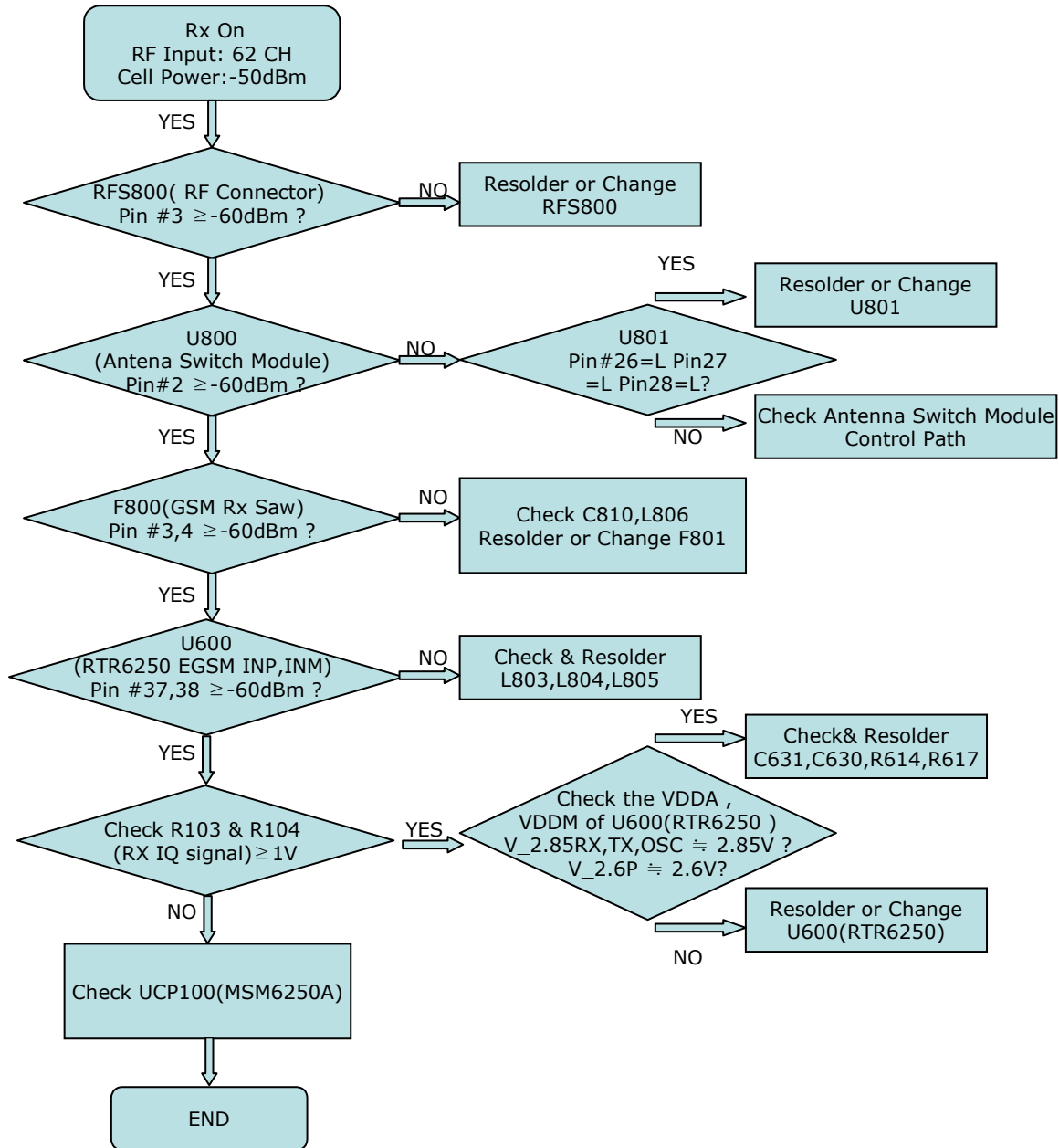


2-1-9. Camera

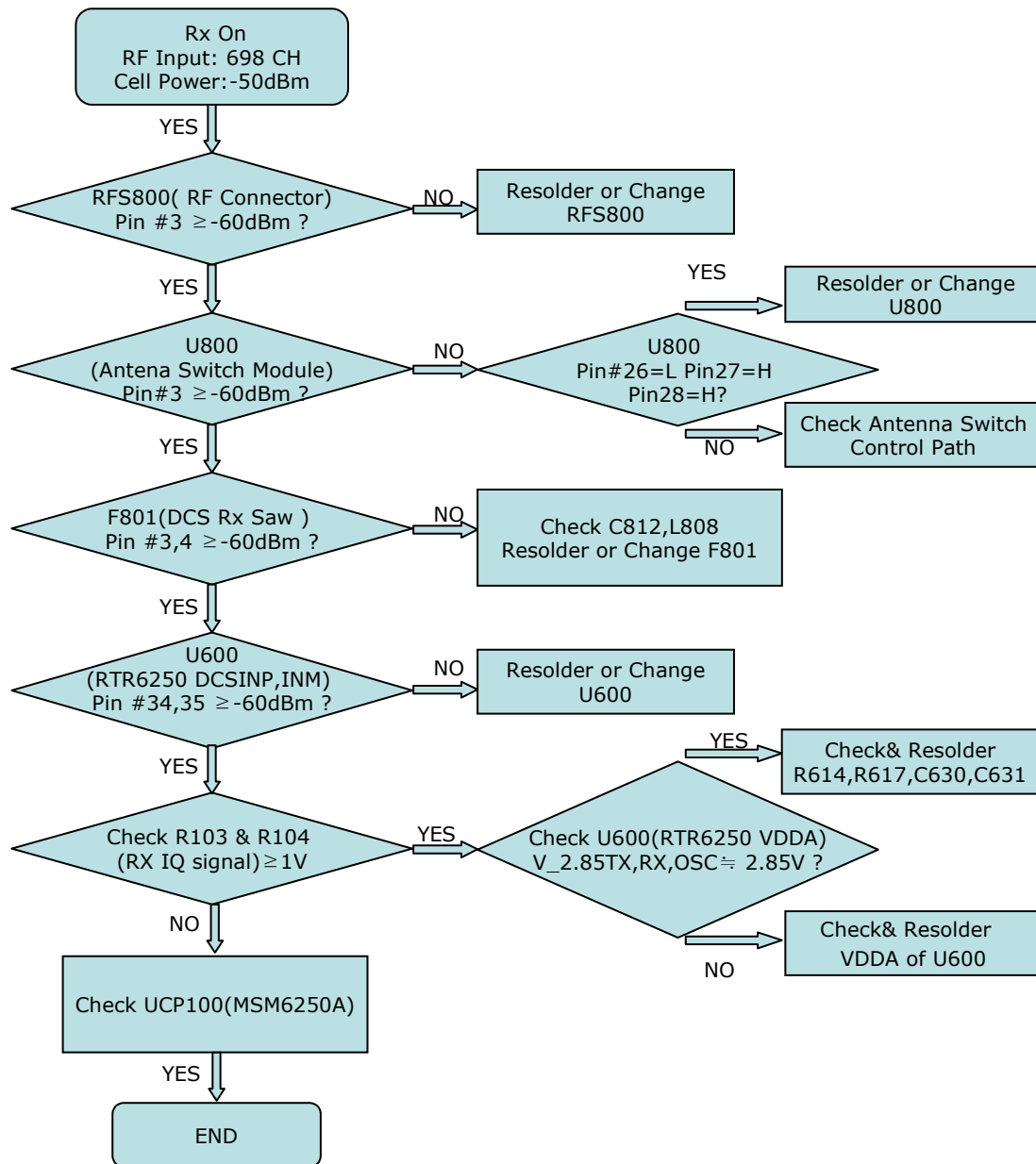




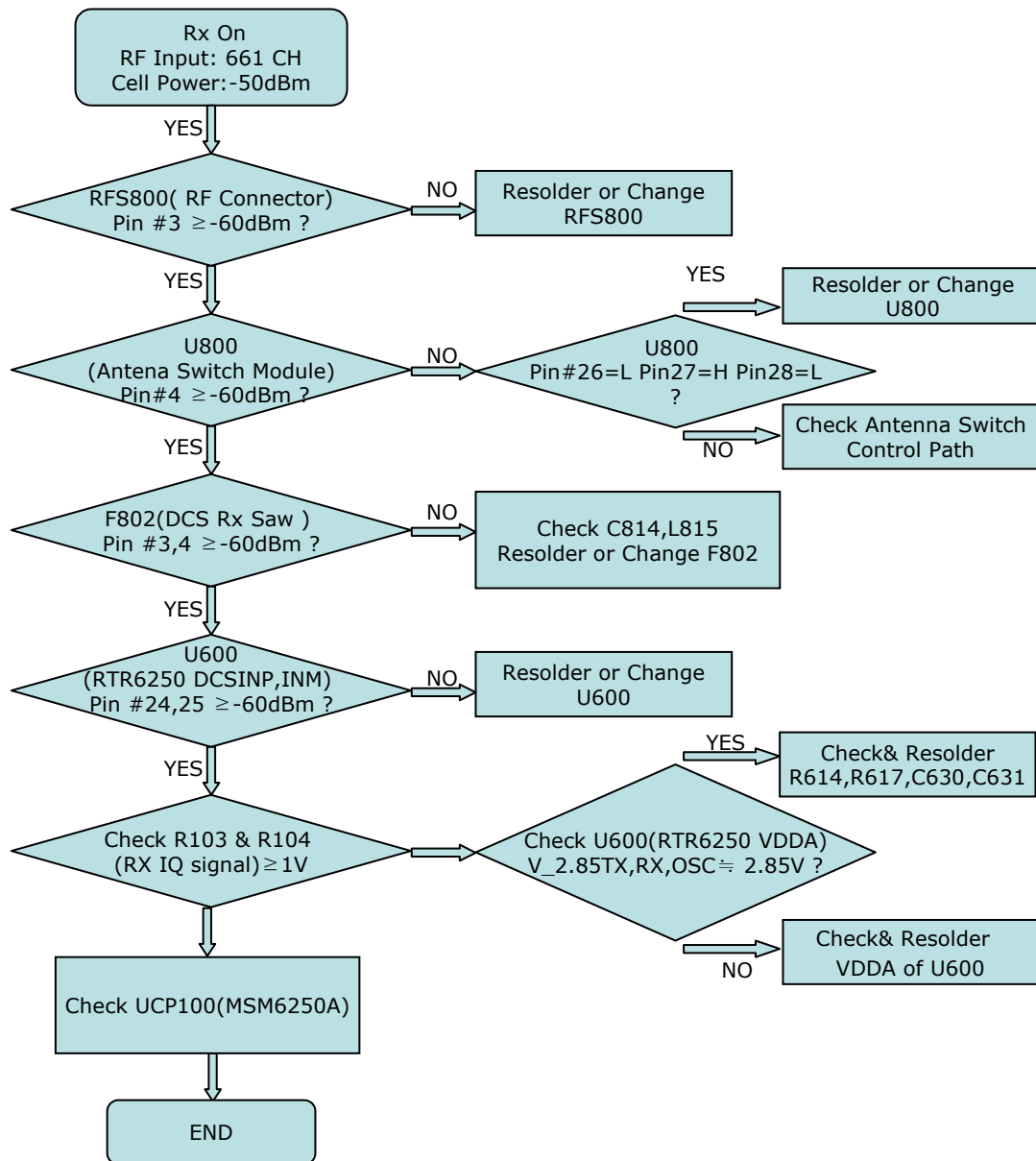


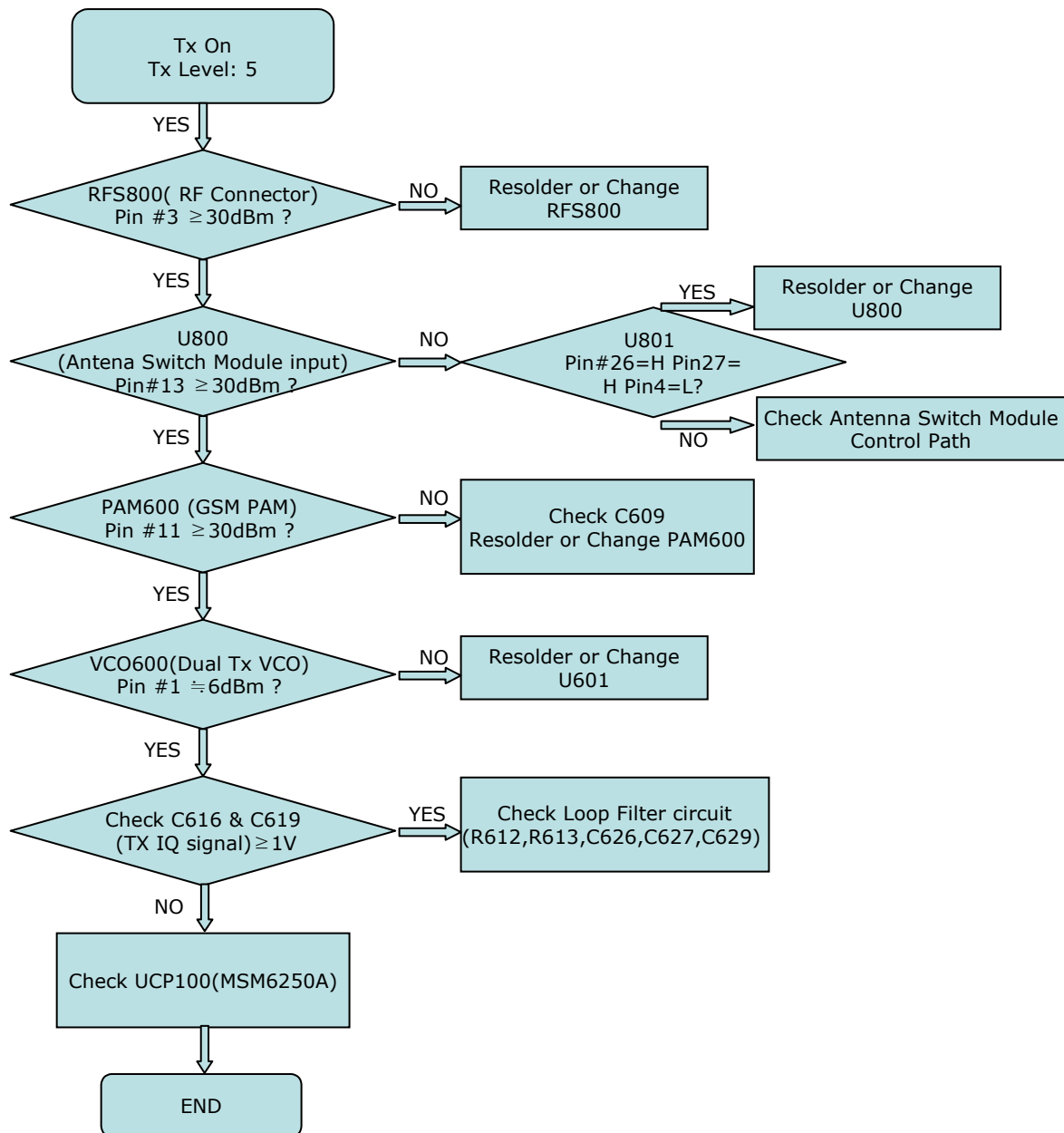
2-2.RF**2-2-1. GSM Receiver**

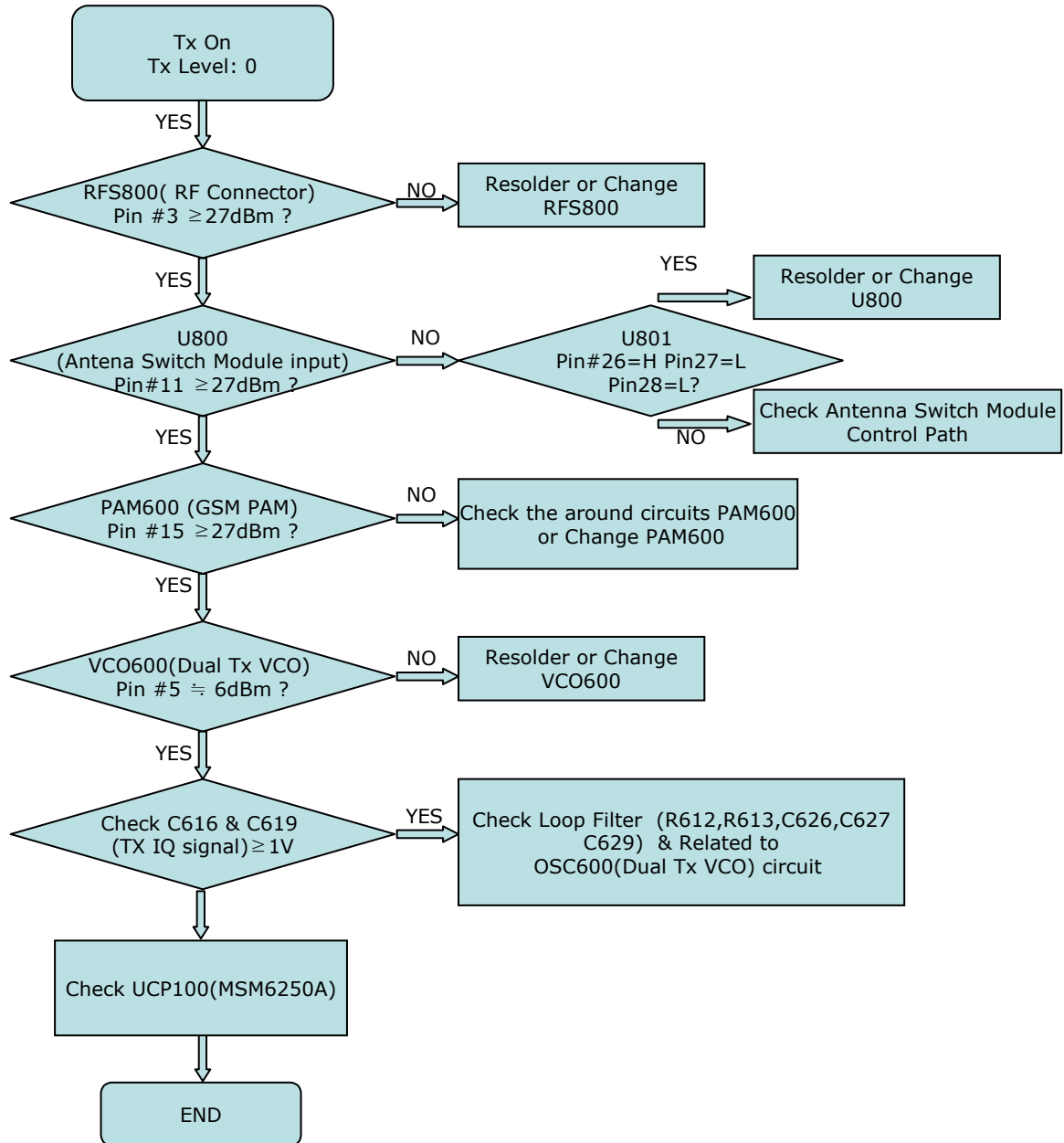
2-2-2. DCS Receiver



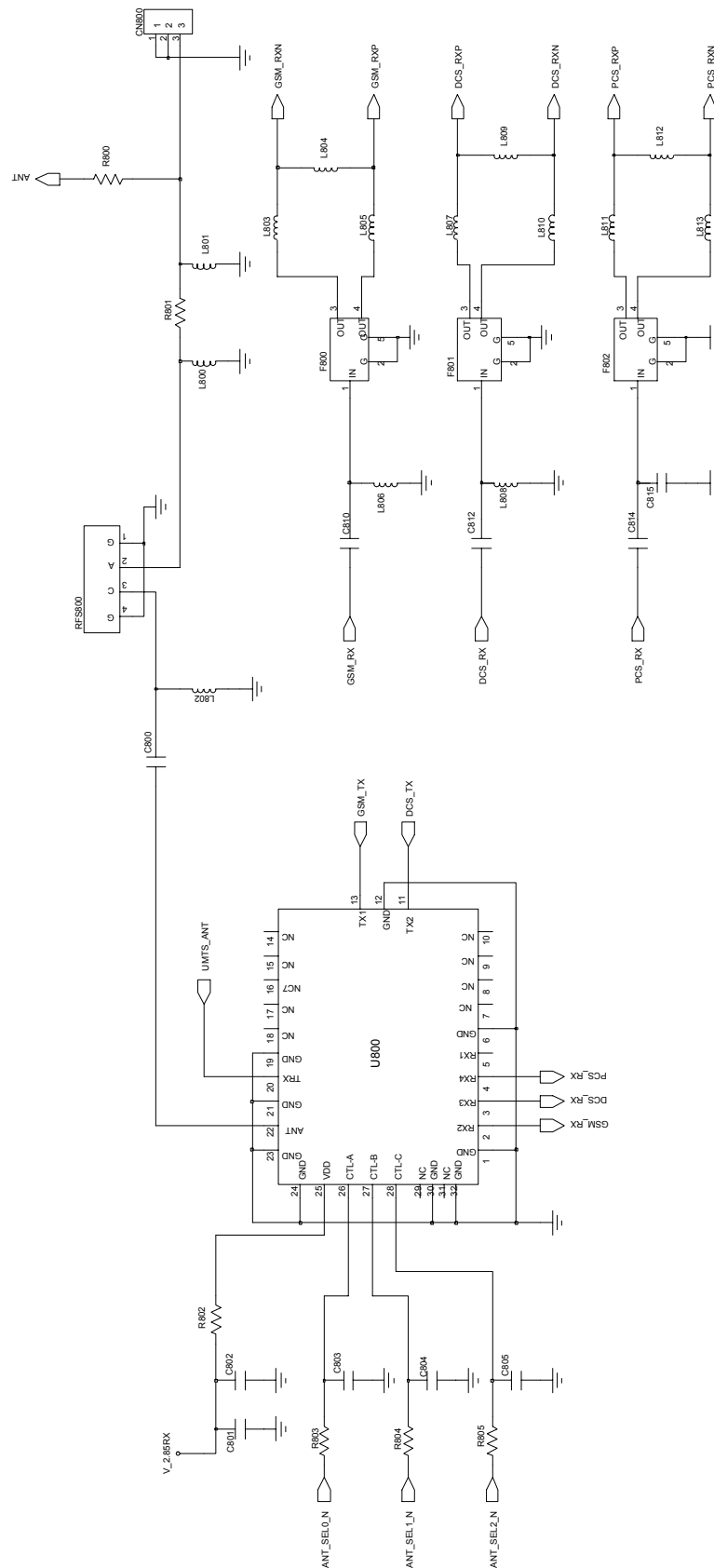
2-2-3. PCS Receiver

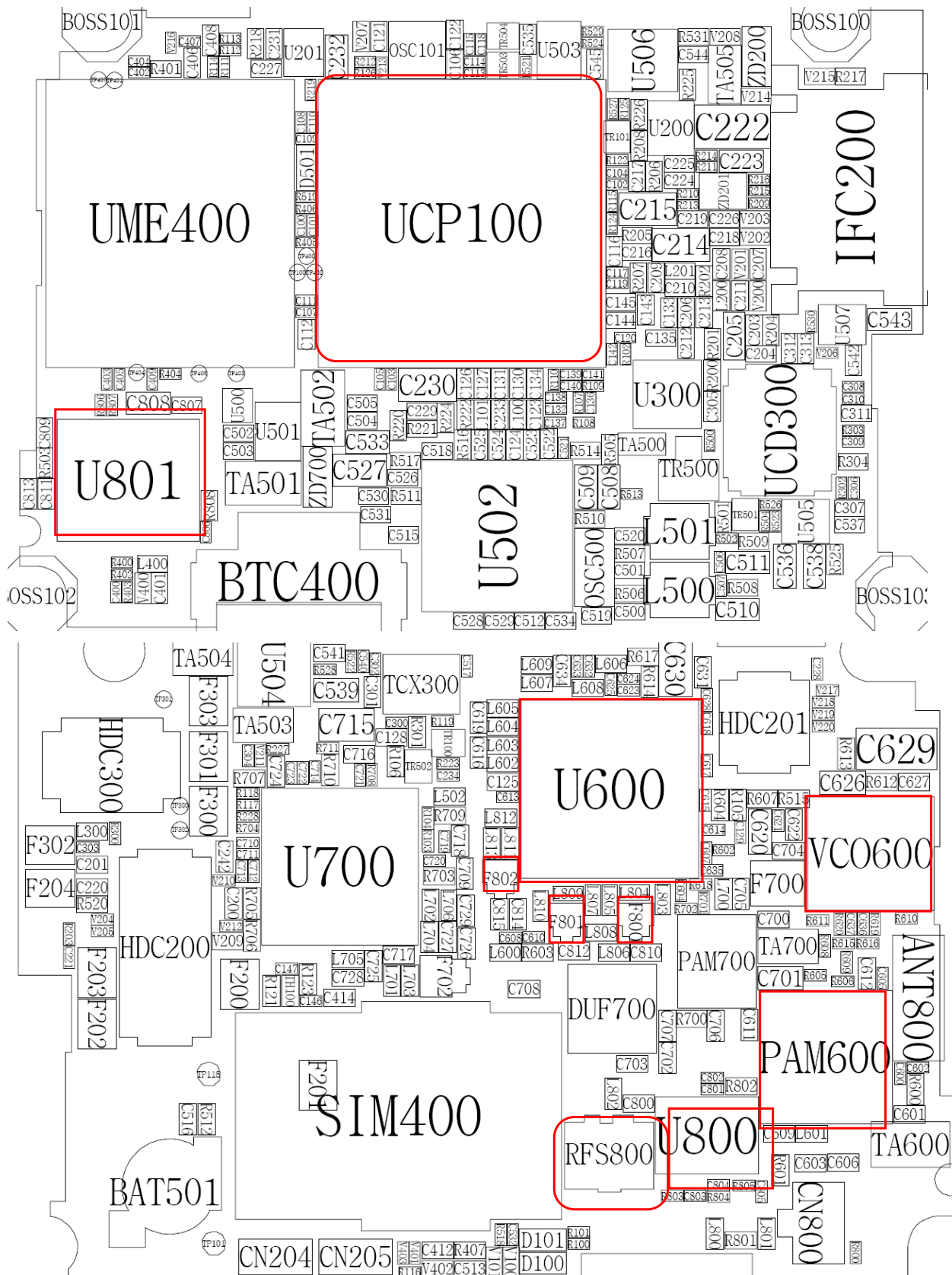


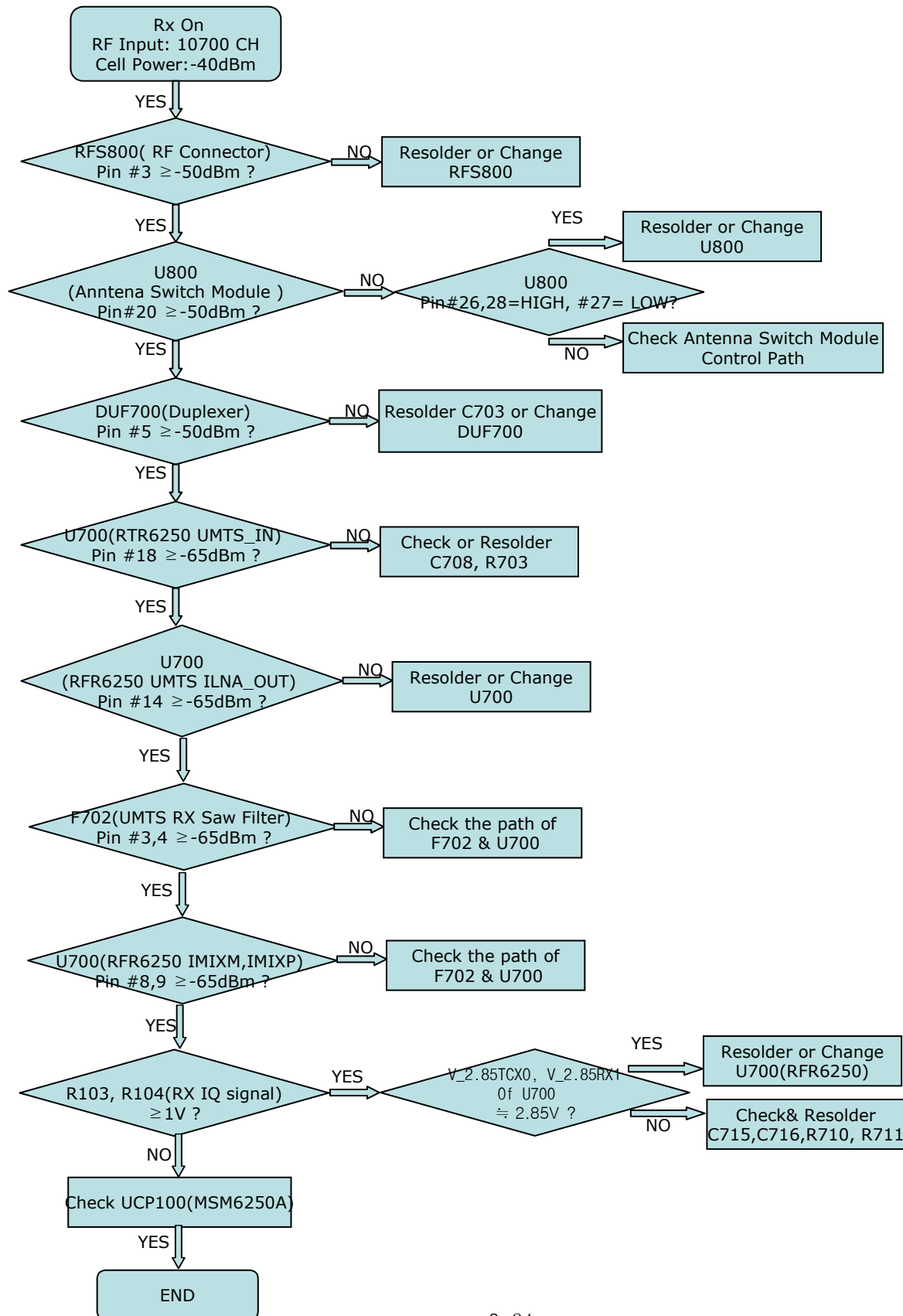
2-2-4. GSM Transmitter

2-2-5. DCS & PCS Transmitter

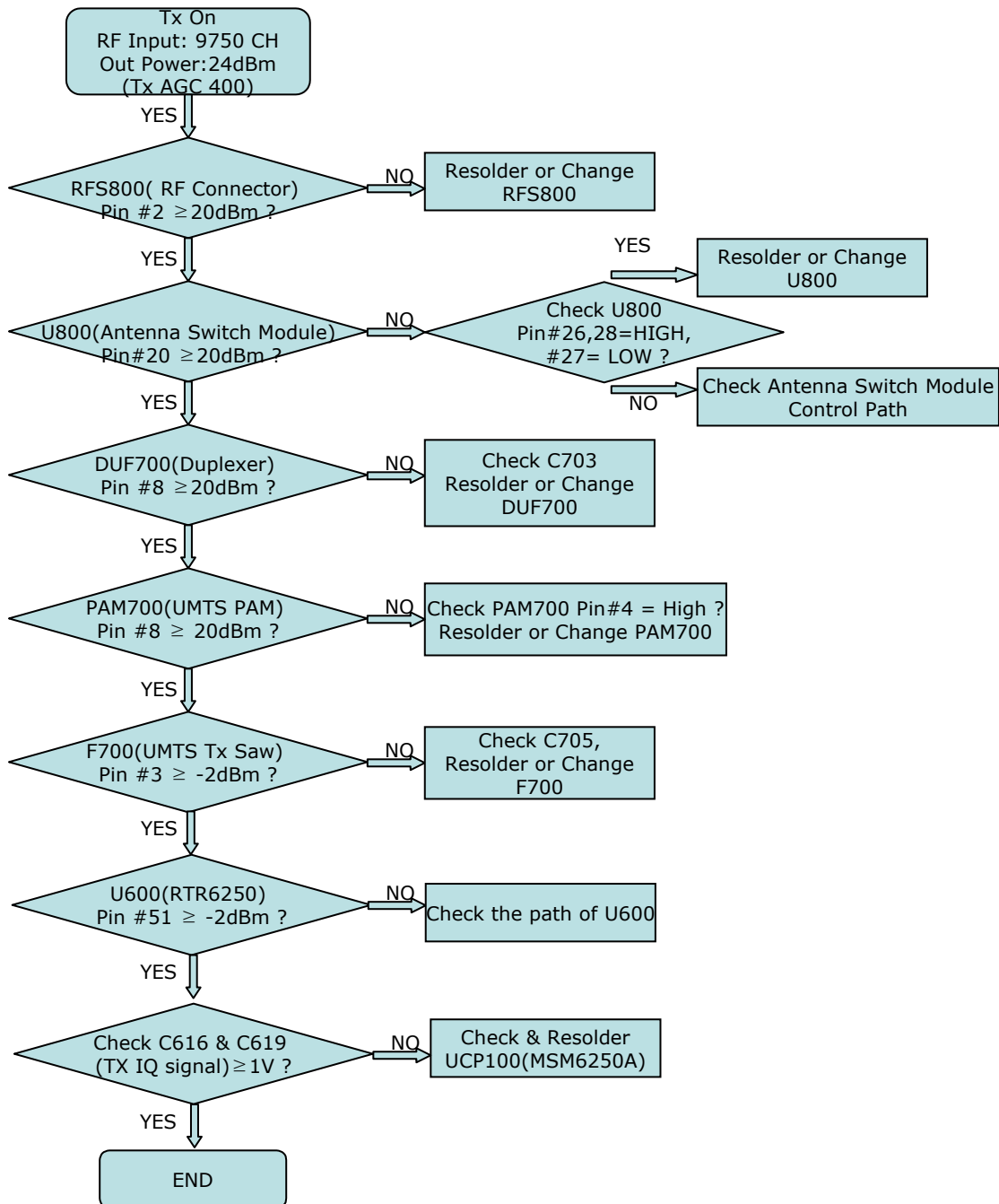


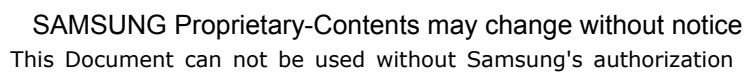


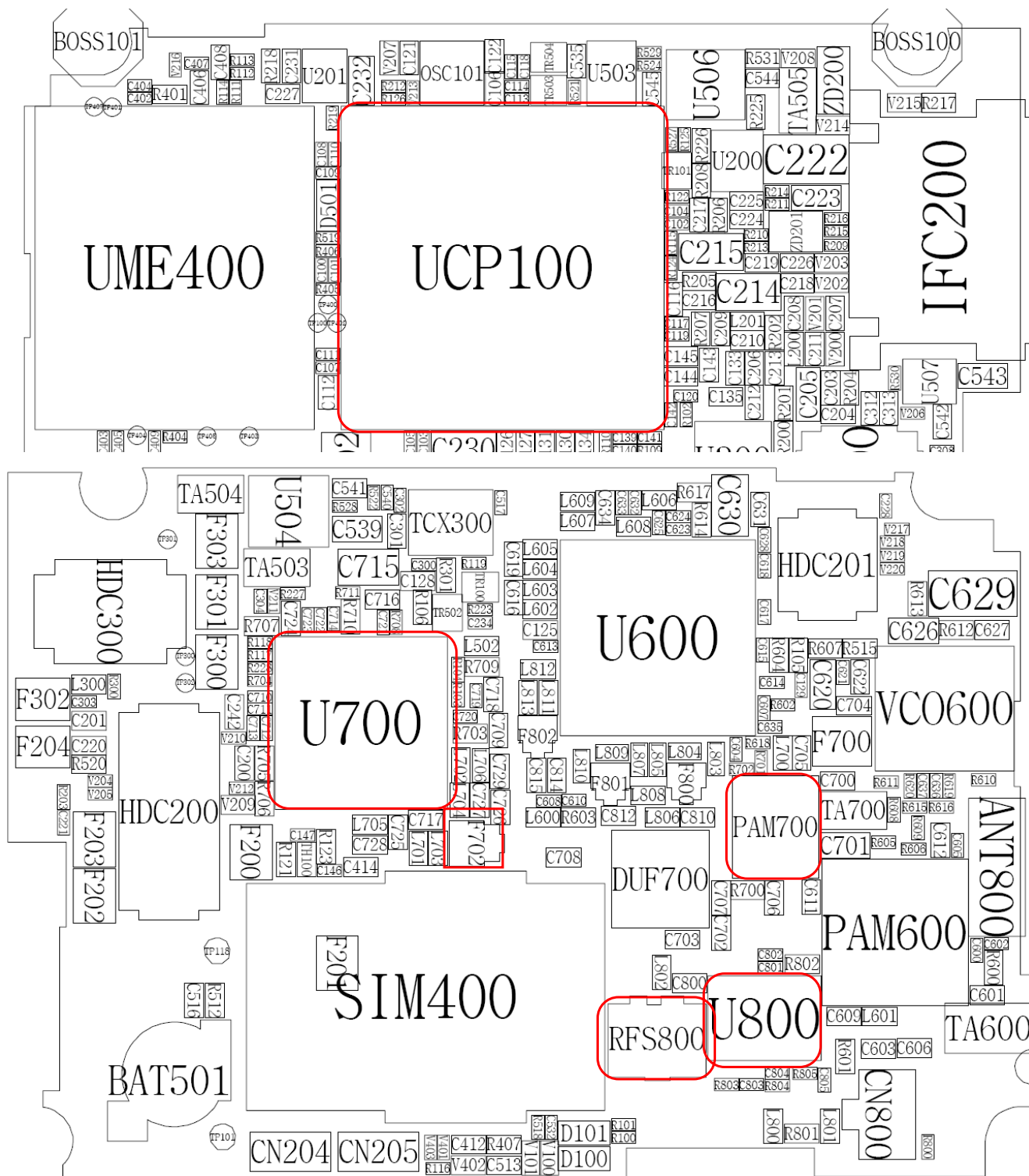


2-2-6. WCDMA Receiver

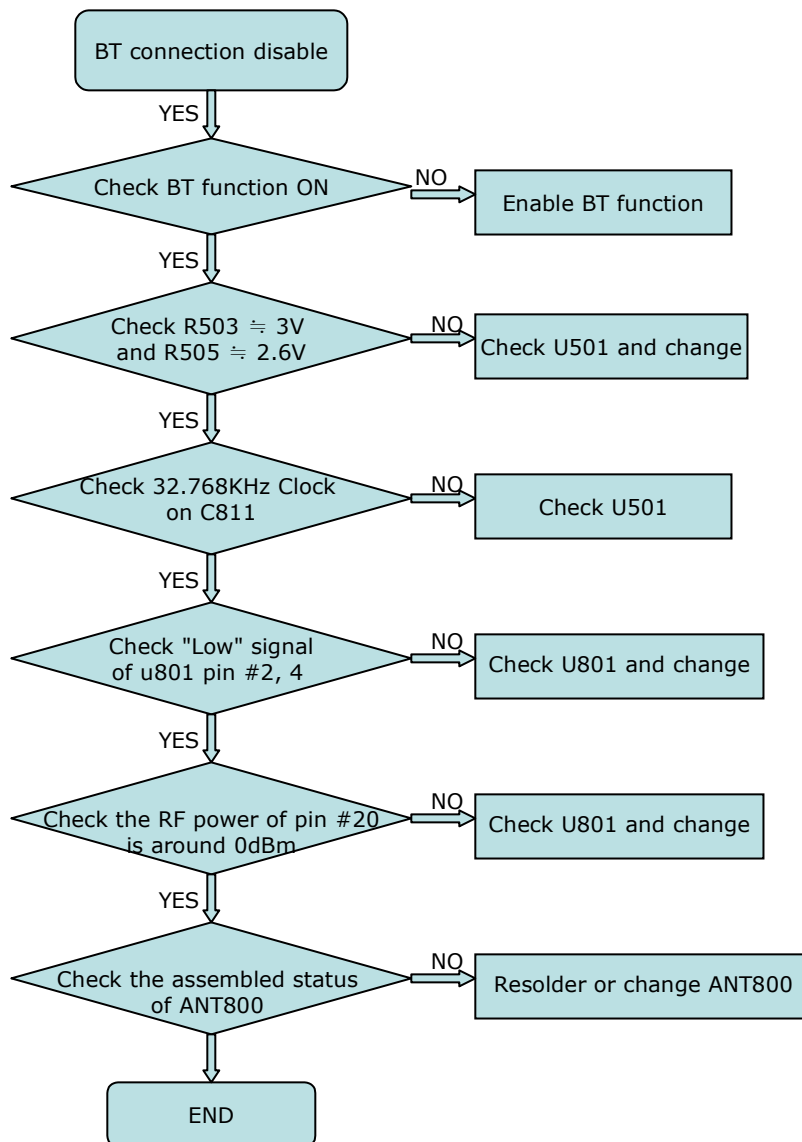
2-2-7. WCDMA Transmitter

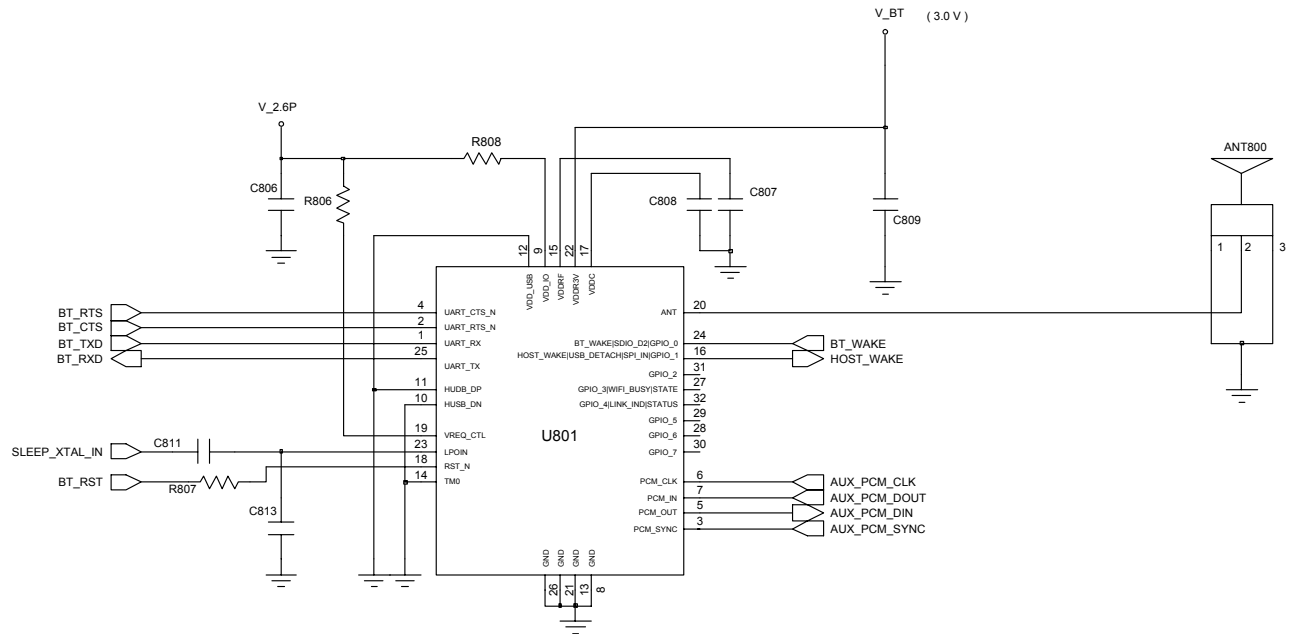






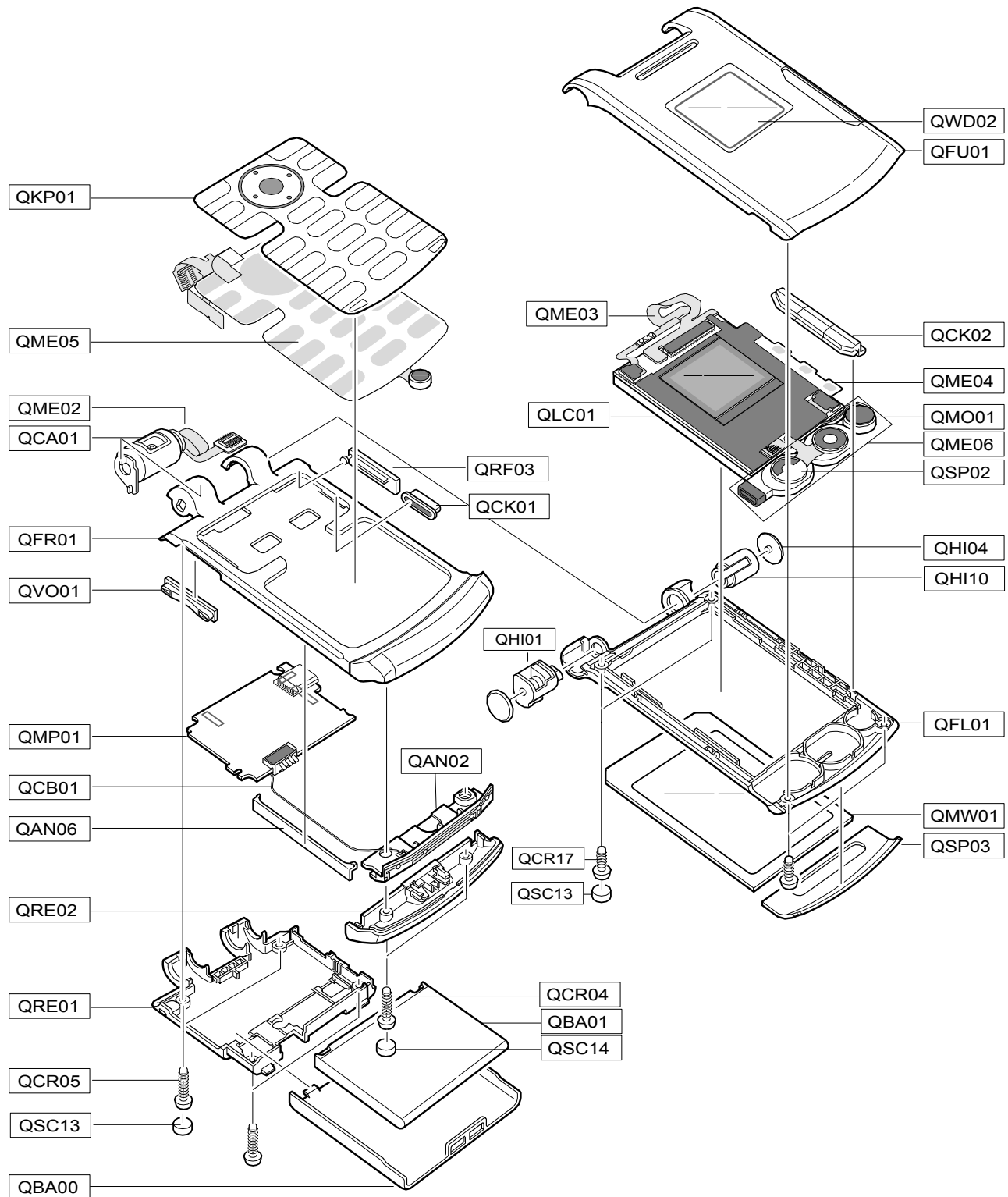
2-3-1. Bluetooth Part





3. SGH-Z510 Exploded View and Parts List

3-1. Cellular phone Exploded View

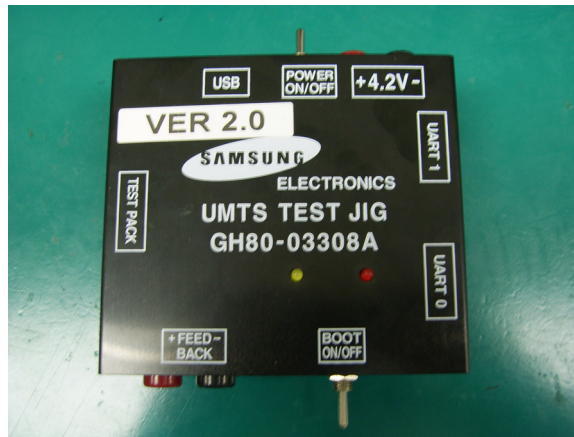


3-2. Cellular phone Parts list

Location No		Description	SEC CODE
QAN02		INTENNA-SGHZ510	GH42-00707A
QAN06		MEC-ANT CABLE COVER	GH75-08320A
QBA00		MEC-BATTERY COVER	GH75-08560A
QBA01		BATTERY-800MAH,BLACK,ENG,M	GH43-02098A
QCA01		UNIT-CAMERA	GH59-02459A
QCB01		CBF COAXIAL CABLE	GH39-00469A
QCK01		MEC-CAMERA KEY	GH75-07728A
QCR04		SCREW-MACHINE	6001-001479
QCR05		SCREW-MACHINE	6001-001478
QCR17		SCREW-MACHINE	6001-001460
QFL01		MEC-FOLDER LOWER SUB	GH75-08559A
QHI01		MEC-HINGE	GH75-07726A
QHI04		MEC-SIDE DUMMY	GH75-08040A
QHI10		NDC-HINGE DUMMY	GH71-05816A
QKP01		MEC-KEYPAD(TIM/DAA)	GH75-08079A
QLC01		MEA-LCD MODULE KIT	GH97-05173A
QME02		UNIT-FLASH FPCB	GH59-02467A
QME03		UNIT-FPCB TAIL	GH59-02469A
QME04		UNIT-MP3 KEY FPCB	GH59-02468A
QME05		UNIT-EL KEYPAD FPCB	GH59-02470A
QMP01		PBA MAIN-SGHZ510	GH92-02329A
QMW01		MEC-MAIN WINDOW	GH75-08037A
QRE01		MEC-REAR COVER	GH75-07724A
QRE02		MEC-REAR BOTTOM COVER	GH75-07725A
QSC13		RMO-REAR HOLE COVER	GH73-05184A
QSC14		RMO-REAR BOTTOM CAP	GH73-05185A
QSP03		MEC-SPK DUMMY	GH75-08039A
QVO01		MEC-VOLUME KEY	GH75-07727A
QWD02		PMO-DUAL WINDOW	GH72-24018A
QME06		UNIT-SPK_MOT FPCB	GH59-02533A
	QMO01	AS-VIBRATION MOTOR	GH81-02743A
	QSP02	AS-SPEAKER FPCB ASS'Y	GH81-02744A
QFR01		MEC-FRONT COVER	GH75-07721A
	QRF03	PMO-EAR JACK COVER	GH72-24014A
QFU01		MEC-FOLDER UPPER	GH75-07723A
	QCK02	MEC-MP3 KEY	GH75-08038A

Description	SEC CODE
BAG PE	6902-000297
BAG PE	6902-000378
CBF INTERFACE-DATA LINK CABLE	GH39-00444A
ADAPTOR-SGHD800 TA(EU)	GH44-01060A
S/W CD-SAMSGPCSTUDIO 3.0	GH46-00182A
UNIT-EARPHONE	GH59-02499A
LABEL(P)-WATER SOAK	GH68-02026A
MANUAL-USER	GH68-08374A
LABEL(R)-MAIN (TIM)	GH68-08505B
BOX(P)-UNIT MAIN	GH69-03456A
BOX(P)-SLIP CASE (TIM)	GH69-03464B
RMO-MSM RUBBER	GH73-05405A
RMO-MEMORY RUBBER	GH73-05406A
RMO-CUSHION LEFT LCD RB	GH73-06051A
RMO-CUSHION RIGHT LCD RB	GH73-06052A
MPR-KEY FPCB INSUL TAPE1	GH74-05407A
MPR-BOHO VINYL C/DUMMY	GH74-13530A
MPR-BOHO VINYL LCD CONN	GH74-15350A
MPR-MIC BACK PORON	GH74-17626A
MPR-PORON DUAL WINDOW	GH74-17630A
MPR-BOHO VINYL MAIN WIN	GH74-17798A
MPR-BOHO VINYL CAMERA	GH74-17799A
MPR-BOHO VINYL DUAL WIN	GH74-17800A
MPR-BOHO VINYL MAIN WIN	GH74-18441A
MPR-TAPE LCD INSUL LEFT	GH74-18443A
MPR-TAPE LCD INSUL RIGHT	GH74-18444A
MPR-TAPE LCD INSUL BTM	GH74-18445A
MPR-TAPE LCD FPCB CONN	GH74-18446A
MPR-TAPE LED1 FPCB CONN	GH74-18447A
MPR-TAPE SPK FPCB CONN	GH74-18448A
MPR-LCD CONNECTOR GASKET	GH74-18449A
MPR-KEY PCB GASKET	GH74-18450A
MPR-FOLDER UPPER GASKET	GH74-18451A
MPR-DUAL LCD PORON	GH74-19169A
MPR-BOHO VINYL FOLDER B	GH74-19170A
MPR-EL COIL ABSORBER	GH74-19177A
MPR-TAPE LCD FPCB BOTTOM	GH74-19178A
MPR-TAPE FRONT CONCEALIN	GH74-19179A
MPR-TAPE LCD CONDUCTION	GH74-19379A
MPR-TAPE FRONT BOSS	GH74-19380A
MPR-TAPE LCD SUS	GH74-19381A
MPR-TAPE MP3 GAP	GH74-19741A
MPR-TAPE SPK GASKET	GH74-19802A
MPR-TAPE PAM	GH74-19803A
MPR-TAPE BATTERY CONTACT	GH74-19991A

3-3. Test Jig (GH80-03308A)



3-3-1. RF Test Cable
(GH39-00283A)



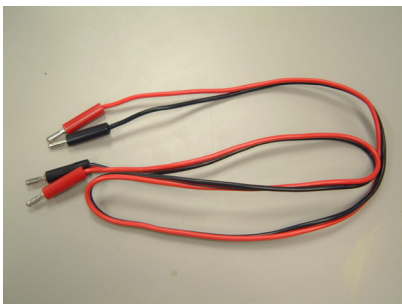
3-3-2. DATA CABLE
(GH39-00444A)



3-3-3. Serial Cable



3-3-4. Power Supply Cable



3-3-5. Test Cable
(GH39-00478A)



3-3-6. TA
(GH44-01060A)



4. SGH-Z510 MAIN Electrical Parts List

SEC Code	Design LOC	Discription	STATUS
0403-001411	ZD700	DIODE-ZENER	SA
0403-001427	ZD200	DIODE-ZENER	SA
0404-001172	D100	DIODE-SCHOTTKY	SA
0404-001172	D101	DIODE-SCHOTTKY	SA
0404-001172	D501	DIODE-SCHOTTKY	SA
0406-001208	ZD201	DIODE-TVS	SA
0504-001113	TR100	TR-DIGITAL	SA
0504-001113	TR101	TR-DIGITAL	SA
0504-001113	TR502	TR-DIGITAL	SA
0504-001113	TR503	TR-DIGITAL	SA
0504-001163	TR501	TR-DIGITAL	SA
0504-001171	TR504	TR-DIGITAL	SA
0505-001217	TR500	FET-GAAS	SA
0505-001889	U501	FET-SILICON	SA
0801-002529	U503	IC-CMOS LOGIC	SA
1001-001306	U300	IC-ANALOG MULTIPLEX	SA
1108-000042	UME400	IC-MCP	SNA
1201-002218	PAM600	IC-POWER AMP	SA
1201-002219	PAM700	IC-POWER AMP	SA
1203-003109	U506	IC-BATTERY	SA
1203-003275	U504	IC-MULTI REG.	SA
1203-003531	U201	IC-POSI.FIXED REG.	SA
1203-003531	U507	IC-POSI.FIXED REG.	SA
1203-003629	U505	IC-POSI.FIXED REG.	SA
1203-003728	U500	IC-VOL. DETECTOR	SA
1203-003877	U502	IC-POWER SUPERVISOR	SA
1204-001915	U200	IC-FILTER	SA
1204-002138	UCD300	IC-MELODY	SA
1205-002645	U600	IC-TRANSCEIVER	SA
1205-002724	U800	IC-SWITCH	SA
1205-002780	UCP100	IC-MODEM	SNA
1205-002781	U700	IC-RECEIVER	SA
1404-001224	TH100	THERMISTOR-NTC	SA
1405-001082	V100	VARISTOR	SA
1405-001082	V101	VARISTOR	SA
1405-001082	V209	VARISTOR	SA
1405-001082	V402	VARISTOR	SA
1405-001108	V200	VARISTOR	SA
1405-001108	V201	VARISTOR	SA
1405-001108	V202	VARISTOR	SA

SEC Code	Design LOC	Discription	STATUS
1405-001108	V203	VARISTOR	SA
1405-001108	V214	VARISTOR	SA
1405-001110	V207	VARISTOR	SA
1405-001110	V208	VARISTOR	SA
1405-001110	V215	VARISTOR	SA
1405-001110	V400	VARISTOR	SA
1405-001158	F300	VARISTOR	SA
1405-001158	F301	VARISTOR	SA
1405-001158	F302	VARISTOR	SA
1405-001158	F303	VARISTOR	SA
1405-001161	F200	VARISTOR	SA
1405-001161	F201	VARISTOR	SA
1405-001161	F202	VARISTOR	SA
1405-001161	F203	VARISTOR	SA
1405-001161	F204	VARISTOR	SA
1405-001177	V204	VARISTOR	SA
1405-001177	V205	VARISTOR	SA
1405-001177	V206	VARISTOR	SA
1405-001177	V210	VARISTOR	SA
1405-001177	V211	VARISTOR	SA
1405-001177	V212	VARISTOR	SA
1405-001177	V213	VARISTOR	SA
1405-001177	V216	VARISTOR	SA
1405-001177	V217	VARISTOR	SA
1405-001177	V218	VARISTOR	SA
1405-001177	V219	VARISTOR	SA
1405-001177	V220	VARISTOR	SA
1405-001177	V401	VARISTOR	SA
1405-001177	V403	VARISTOR	SA
2007-000137	R106	R-CHIP	SA
2007-000140	R202	R-CHIP	SA
2007-000145	R614	R-CHIP	SA
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2007-000148	R512	R-CHIP	SA
2007-000151	R407	R-CHIP	SA
2007-000171	R127	R-CHIP	SA
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2007-007306	R301	R-CHIP	SA
2007-007313	R121	R-CHIP	SA

SEC Code	Design LOC	Discription	STATUS
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2007-008419	R804	R-CHIP	SA
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2203-000812	C708	C-CER,CHIP	SA
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2203-006137	C145	C-CER,CHIP	SA
2203-006190	C216	C-CER,CHIP	SA

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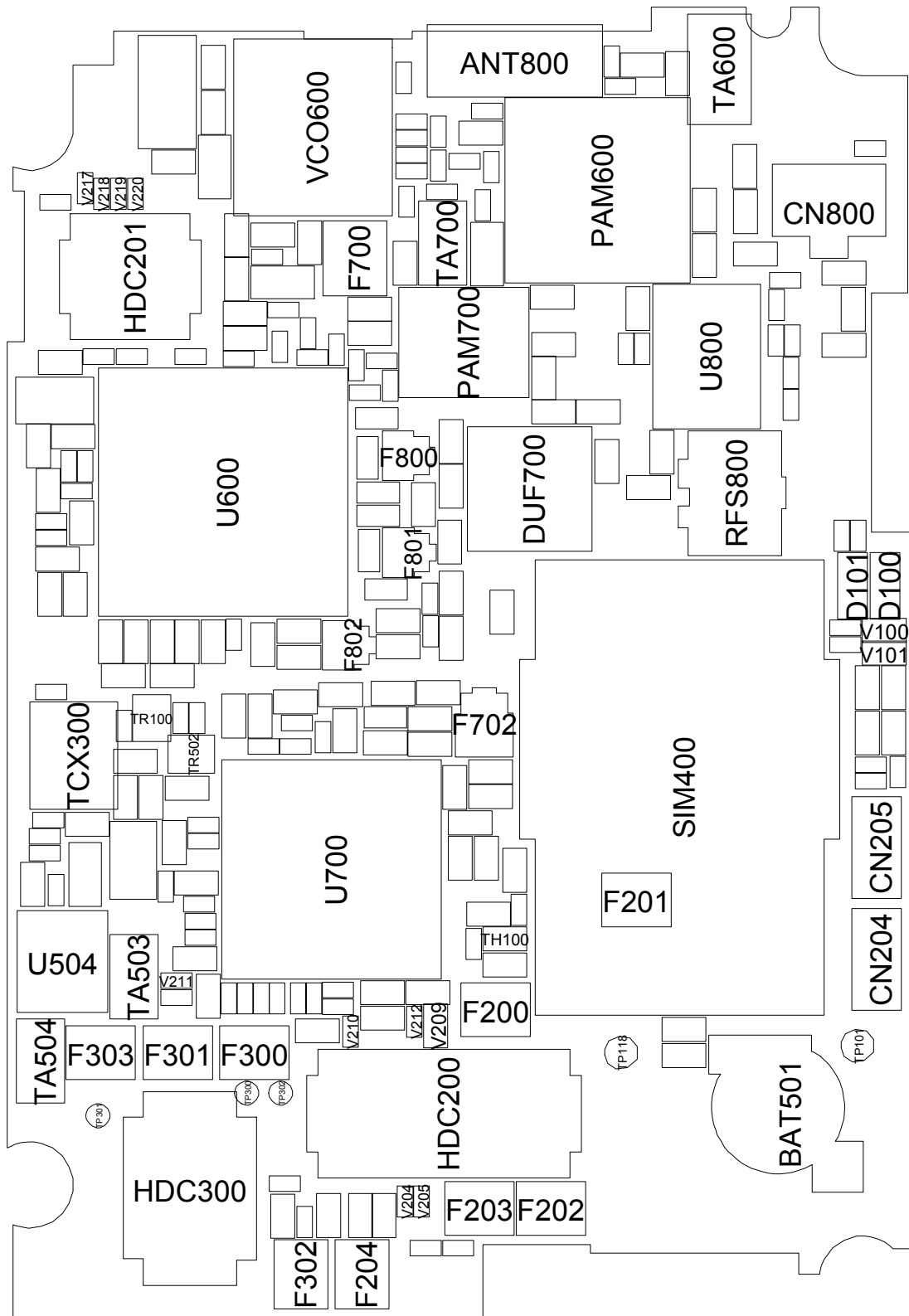
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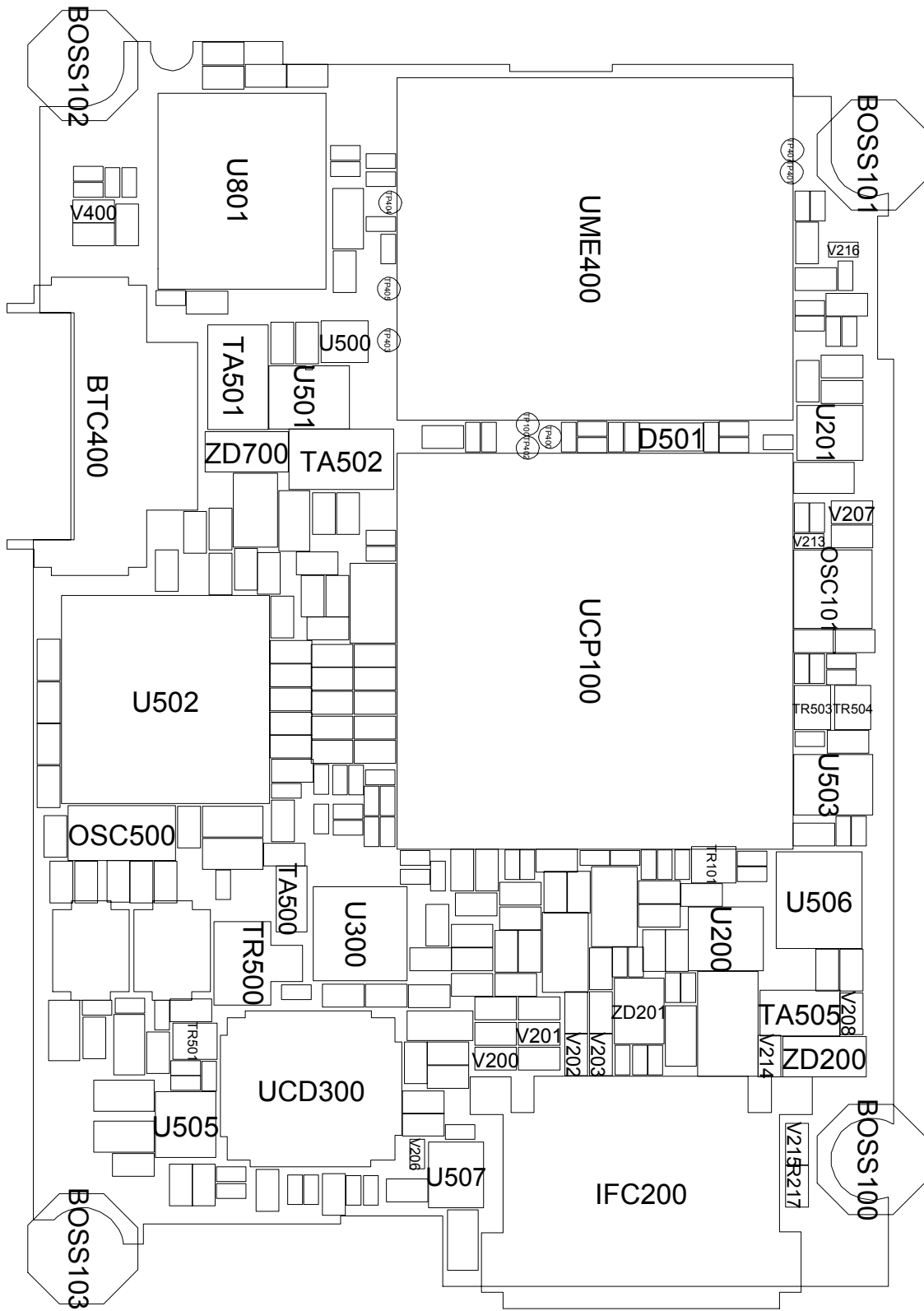
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2203-006838	C542	C-CER,CHIP	SNA
2203-006838	C809	C-CER,CHIP	SNA
2203-006842	C716	C-CER,CHIP	SA
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2301-001475	C715	C-FILM,SMD-PPS	SA
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2404-001274	C222	C-TA,CHIP	SA
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2404-001274	TA502	C-TA,CHIP	SA
2404-001339	TA500	C-TA,CHIP	SA

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2404-001352	TA504	C-TA,CHIP	SA
2404-001377	C205	C-TA,CHIP	SA
2404-001406	TA600	C-TA,CHIP	SA
2703-001748	L701	INDUCTOR-SMD	SA
2703-001748	L705	INDUCTOR-SMD	SA
2703-001750	L704	INDUCTOR-SMD	SA
2703-001751	L703	INDUCTOR-SMD	SA
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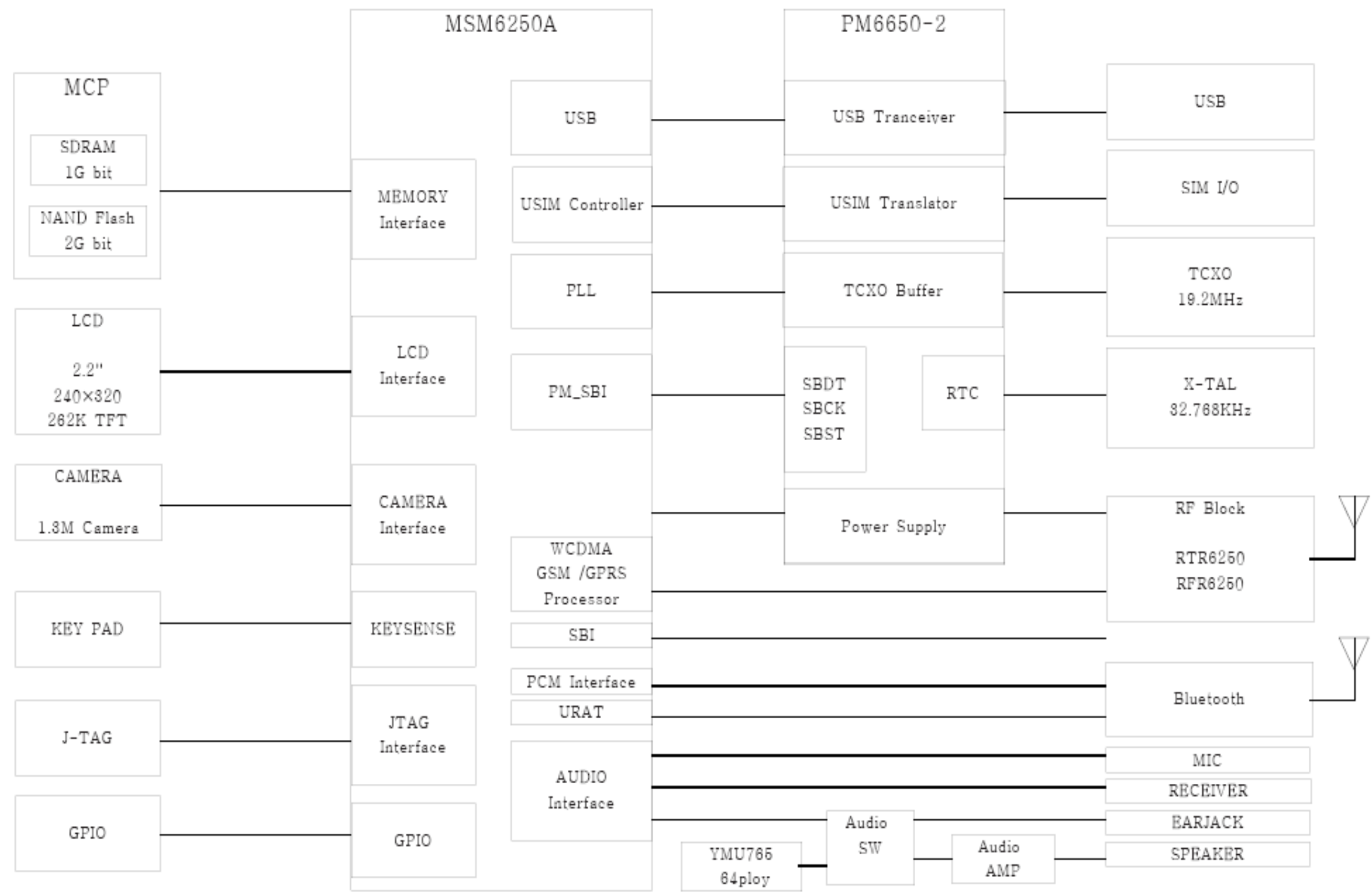
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2801-004373	OSC500	CRYSTAL-SMD	SA
2802-001182	OSC101	RESONATOR-CERAMIC	SA
2806-001371	VCO600	OSCILLATOR-VCO	SA
2809-001280	TCX300	OSCILLATOR-VCTCXO	SA
2904-001599	F801	FILTER-SAW	SA
2904-001600	F802	FILTER-SAW	SA
2904-001622	F702	FILTER-SAW	SA
2904-001628	F800	FILTER-SAW	SA
2904-001629	F700	FILTER-SAW	SA
2910-000010	DUF700	DUPLEXER-SAW	SA
3301-001534	L400	BEAD-SMD	SA
3301-001534	L502	BEAD-SMD	SA
3301-001659	L300	BEAD-SMD	SA
3705-001225	CN800	CONNECTOR-COAXIAL	SA
3705-001358	RFS800	CONNECTOR-COAXIAL	SA
3709-001391	SIM400	CONNECTOR-CARD EDGE	SNA
3710-002306	IFC200	SOCKET-INTERFACE	SA
3711-005345	HDC201	HEADER-BOARD TO BOARD	SA
3711-005643	HDC300	HEADER-BOARD TO BOARD	SA
3711-005845	HDC200	HEADER-BOARD TO BOARD	SA
3711-006003	BTC400	CONNECTOR-BATTERY	SA
4202-001086	ANT800	ANTENNA-CHIP	SA
4302-001130	BAT501	BATTERY-LI(2ND)	SA
4709-001381	U801	BLUETOOTH MODULE	SA

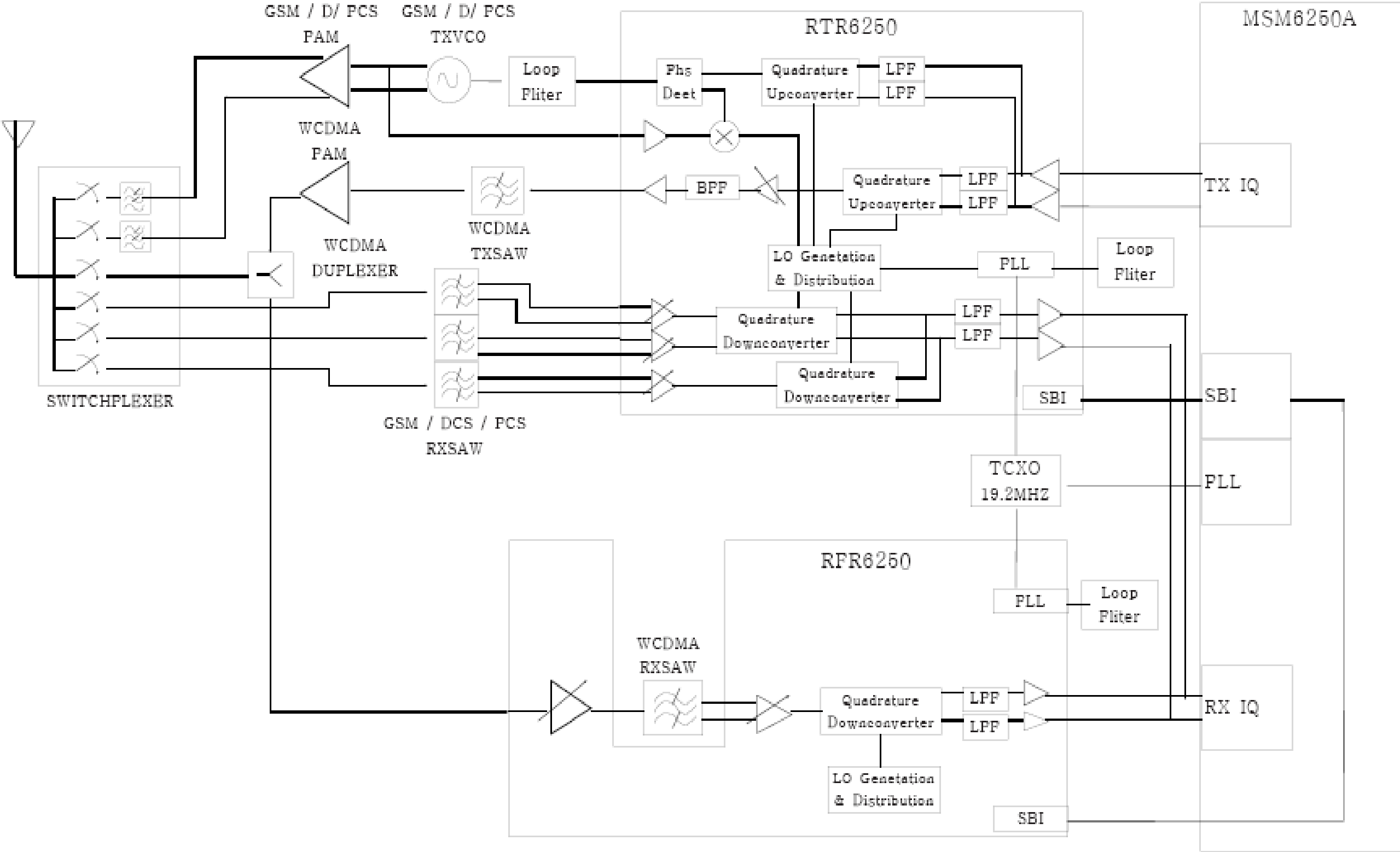
5. SGH-Z510 PCB Diagrams





6. SGH-Z510 Block Diagrams





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