

SAMSUNG

GSM TELEPHONE

SGH-E880

SERVICE *Manual*

GSM TELEPHONE



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1. SGH-E880 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	-

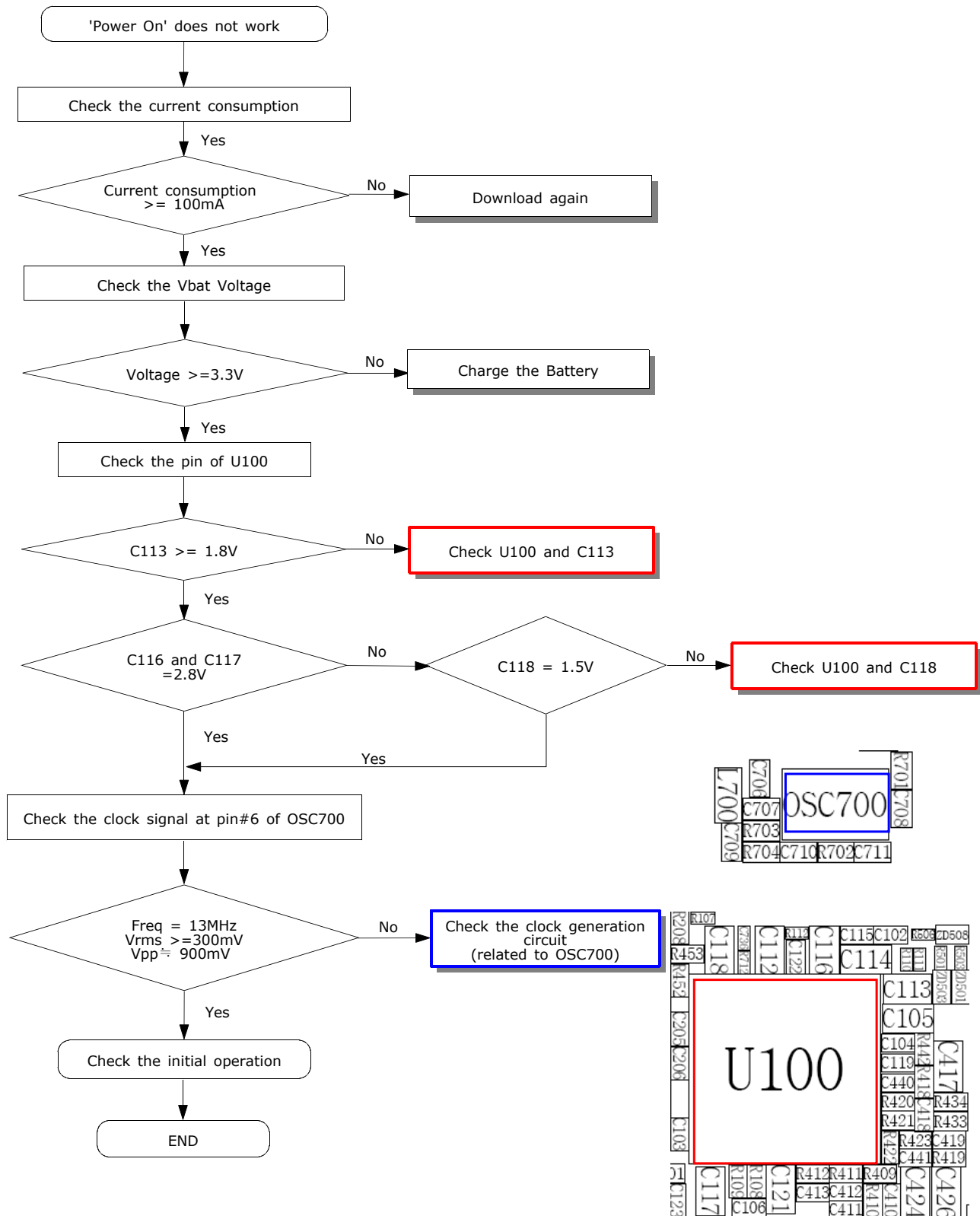
1-2. GSM TX power class

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±4 dBm	11	8±4 dBm
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

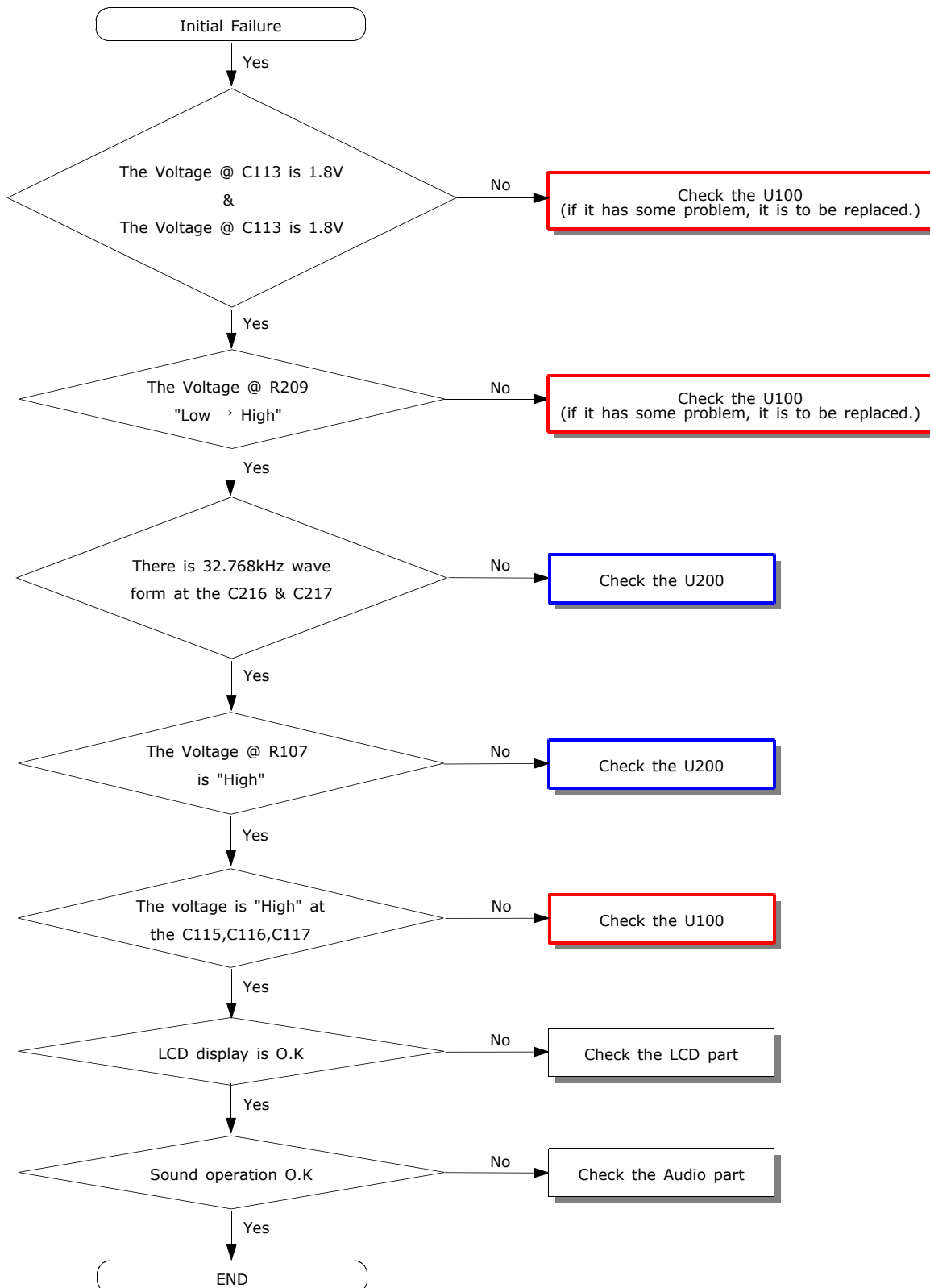
2. SGH-E880 Flow Chart of Troubleshooting

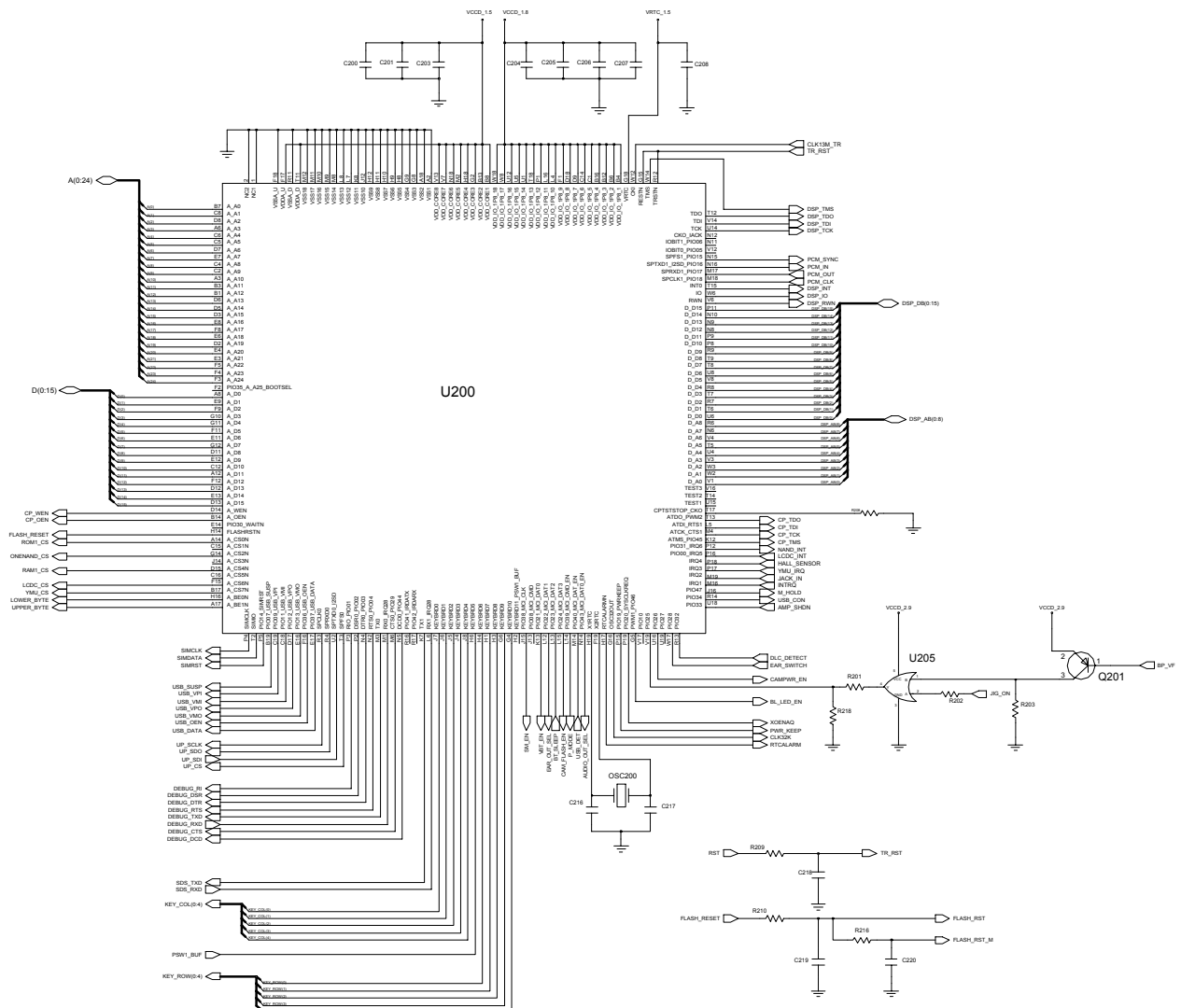
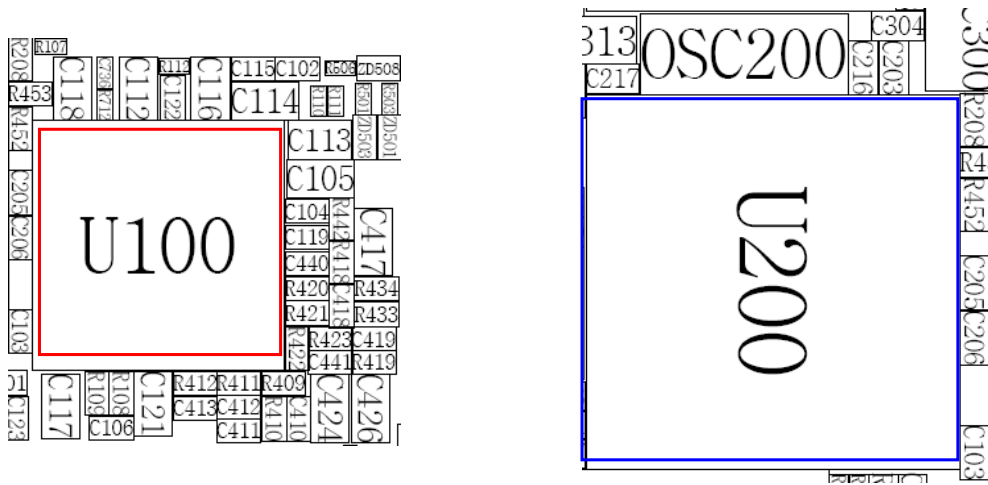
2-1.Baseband

2-1-1. Power ON

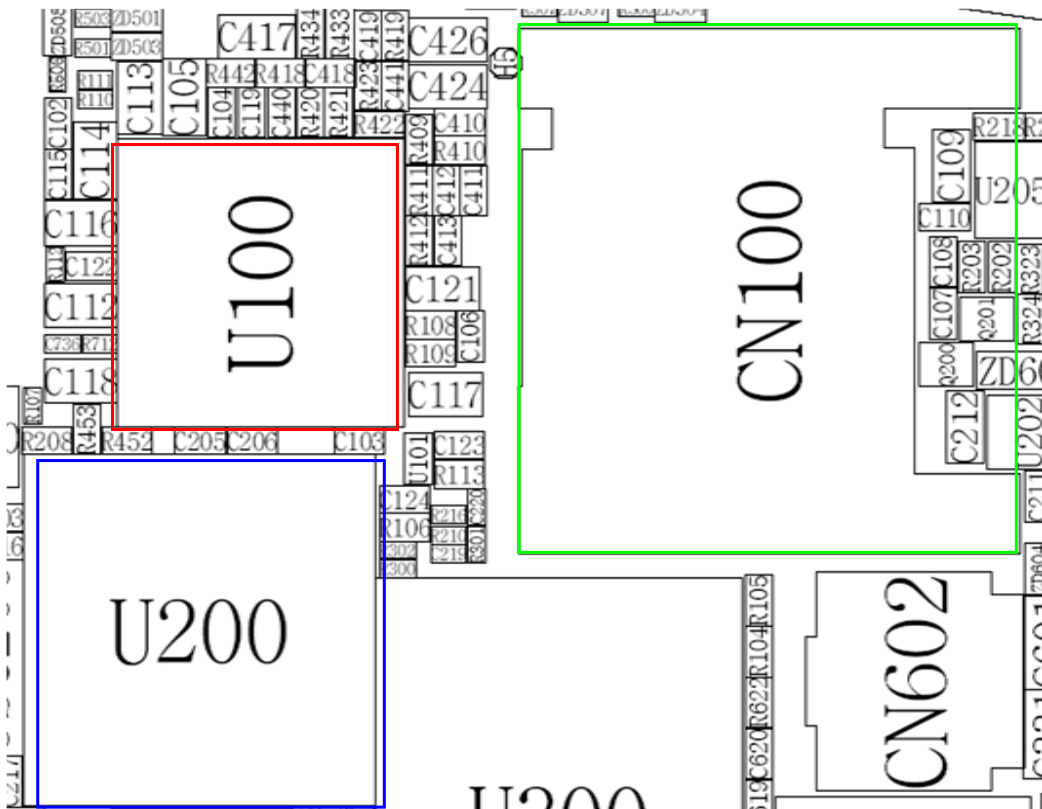
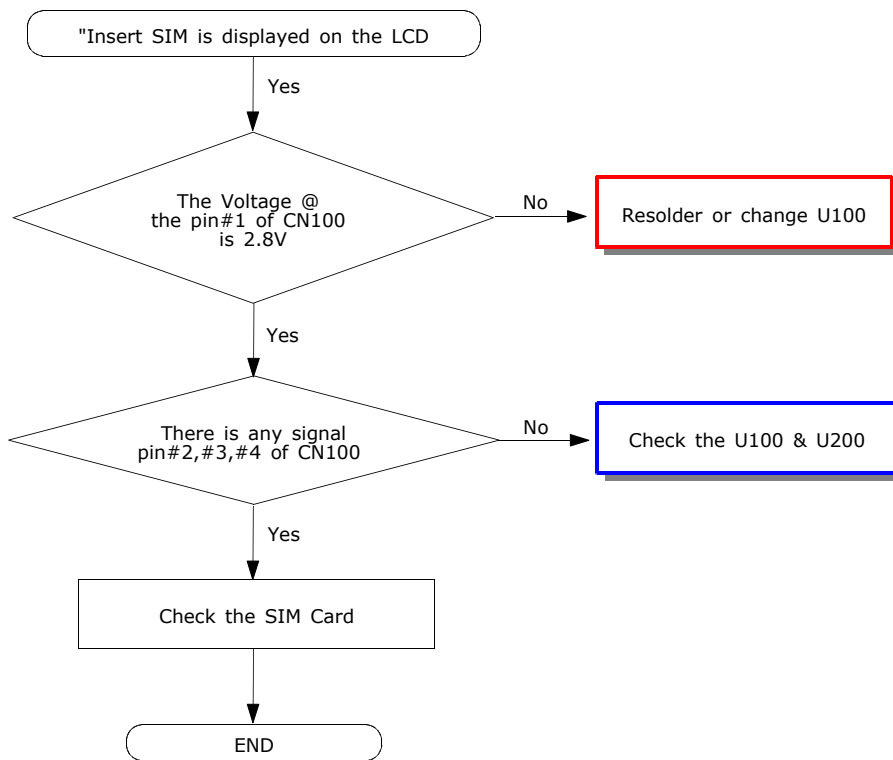


2-1-2. Initial

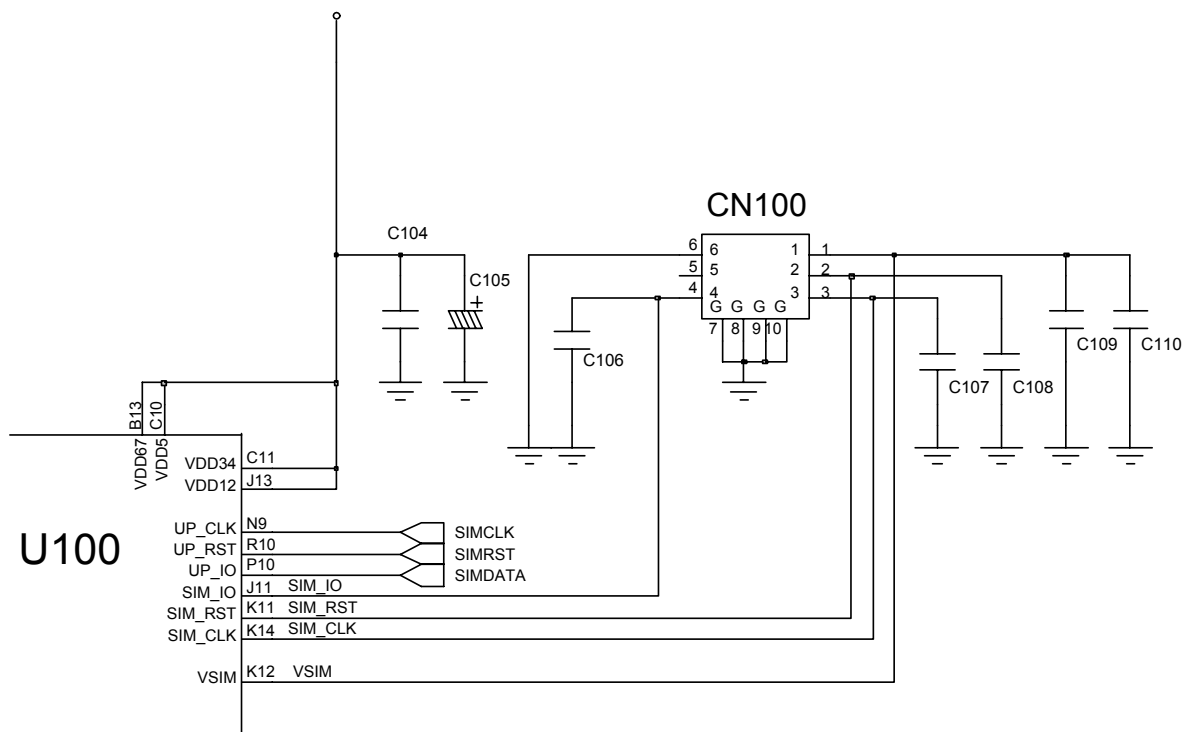




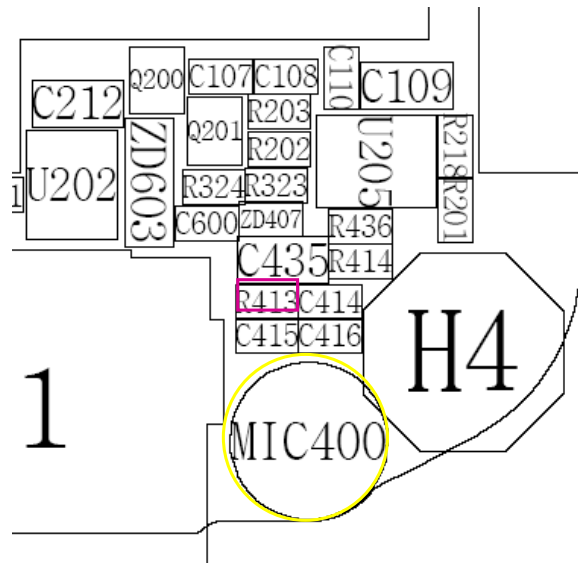
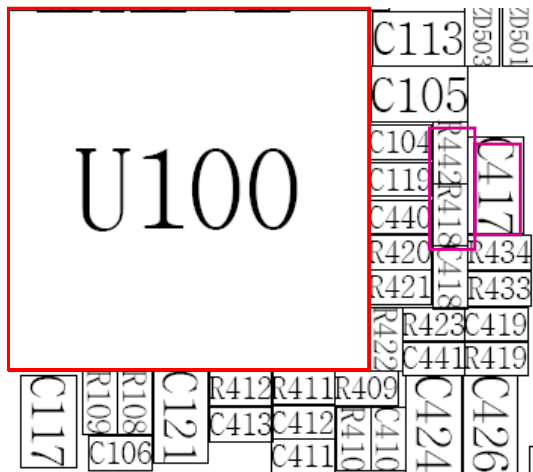
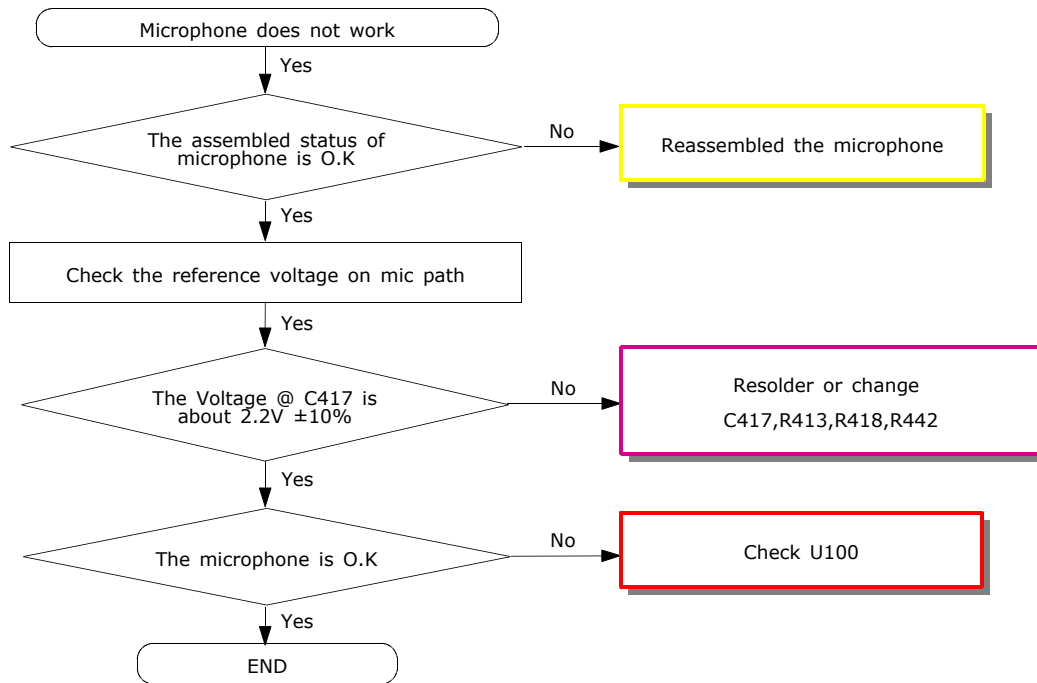
2-1-3. Sim Part



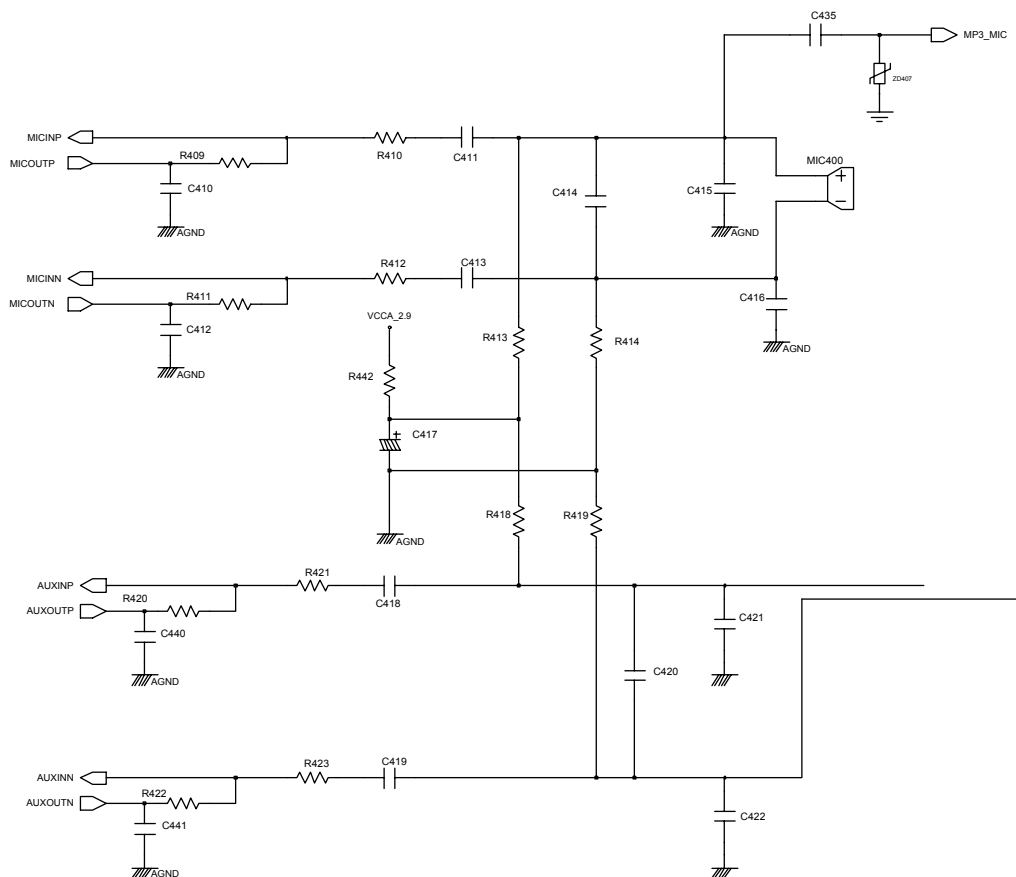
CSP2600 SIM PART



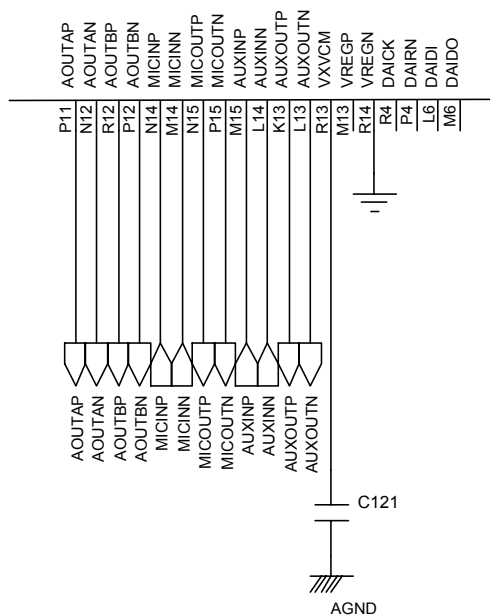
2-1-4. Microphone Part



MICROPHONE PART

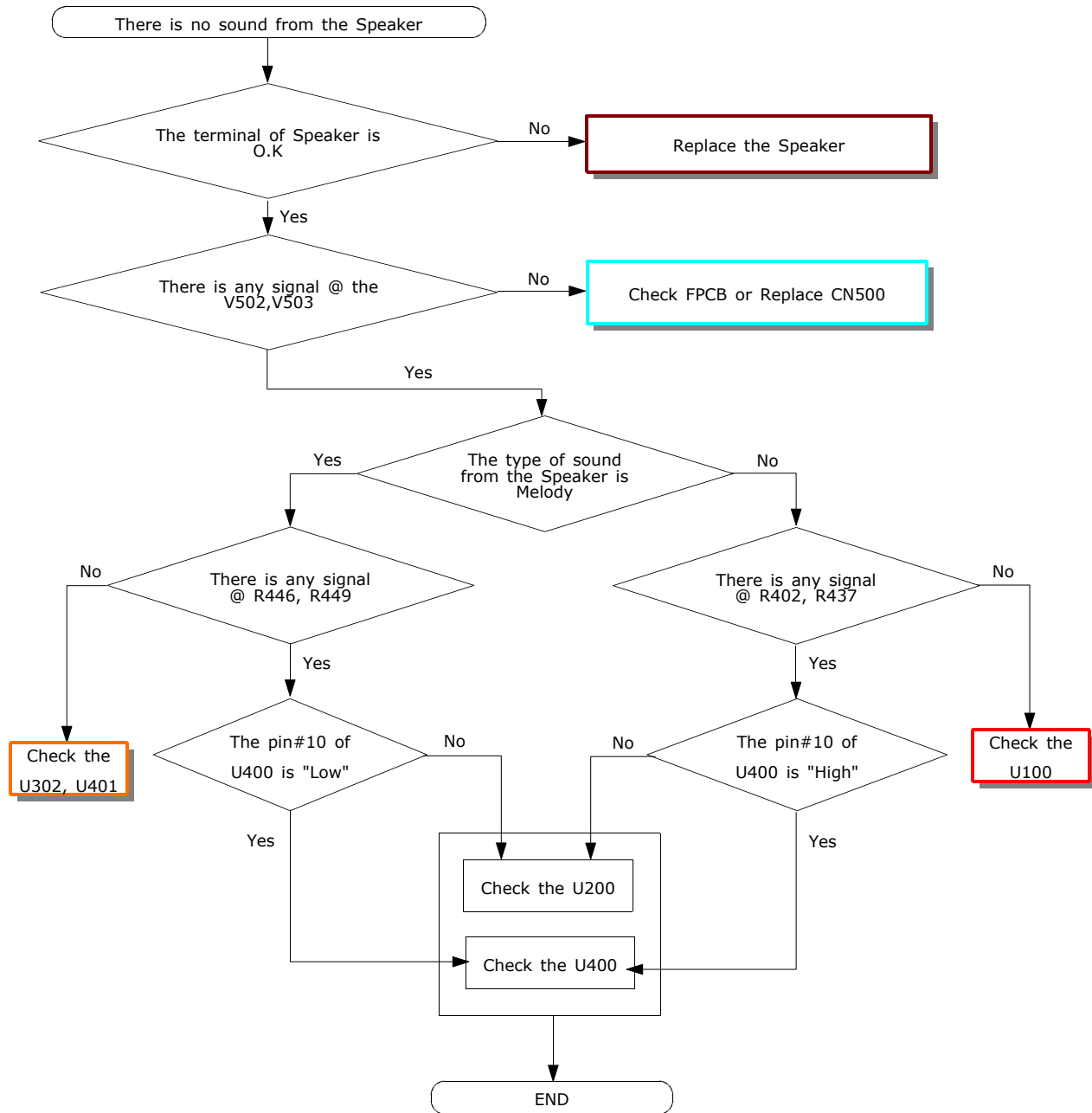


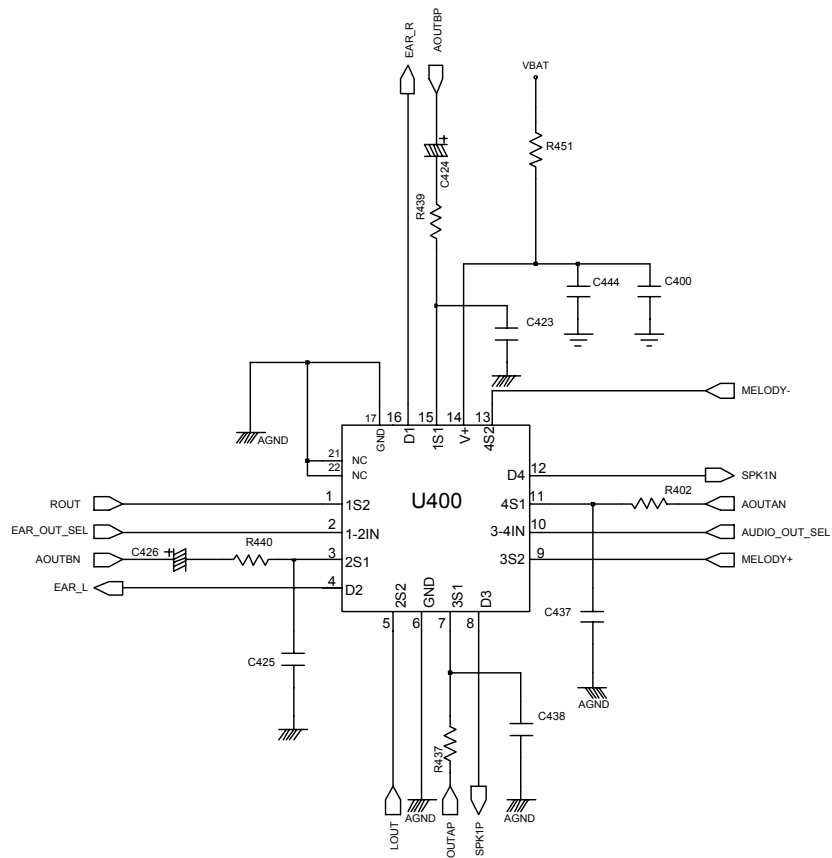
U100



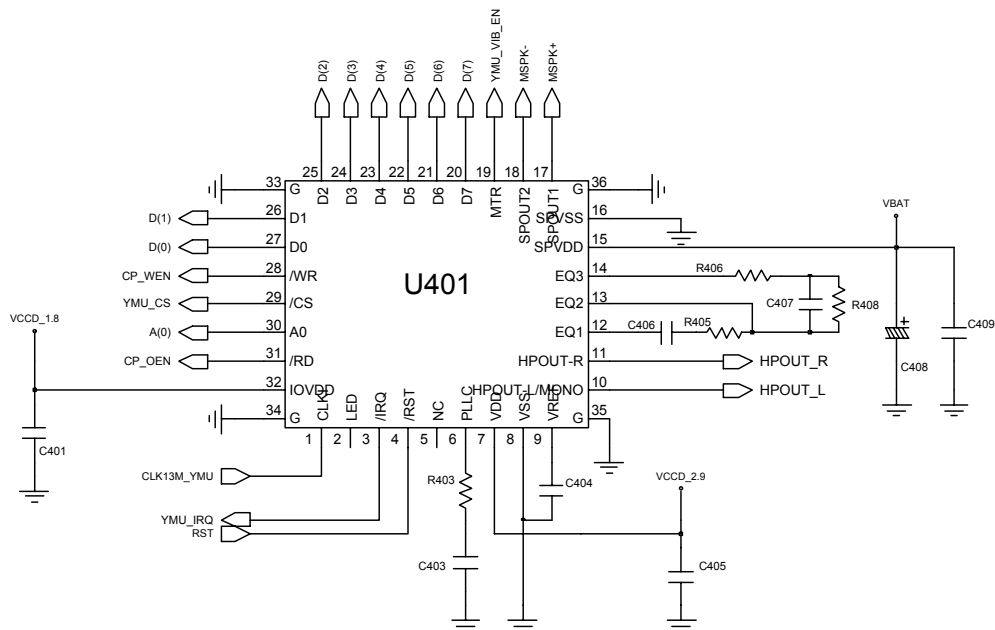
CSP2600 AUDIO PART

2-1-5. Speaker Part

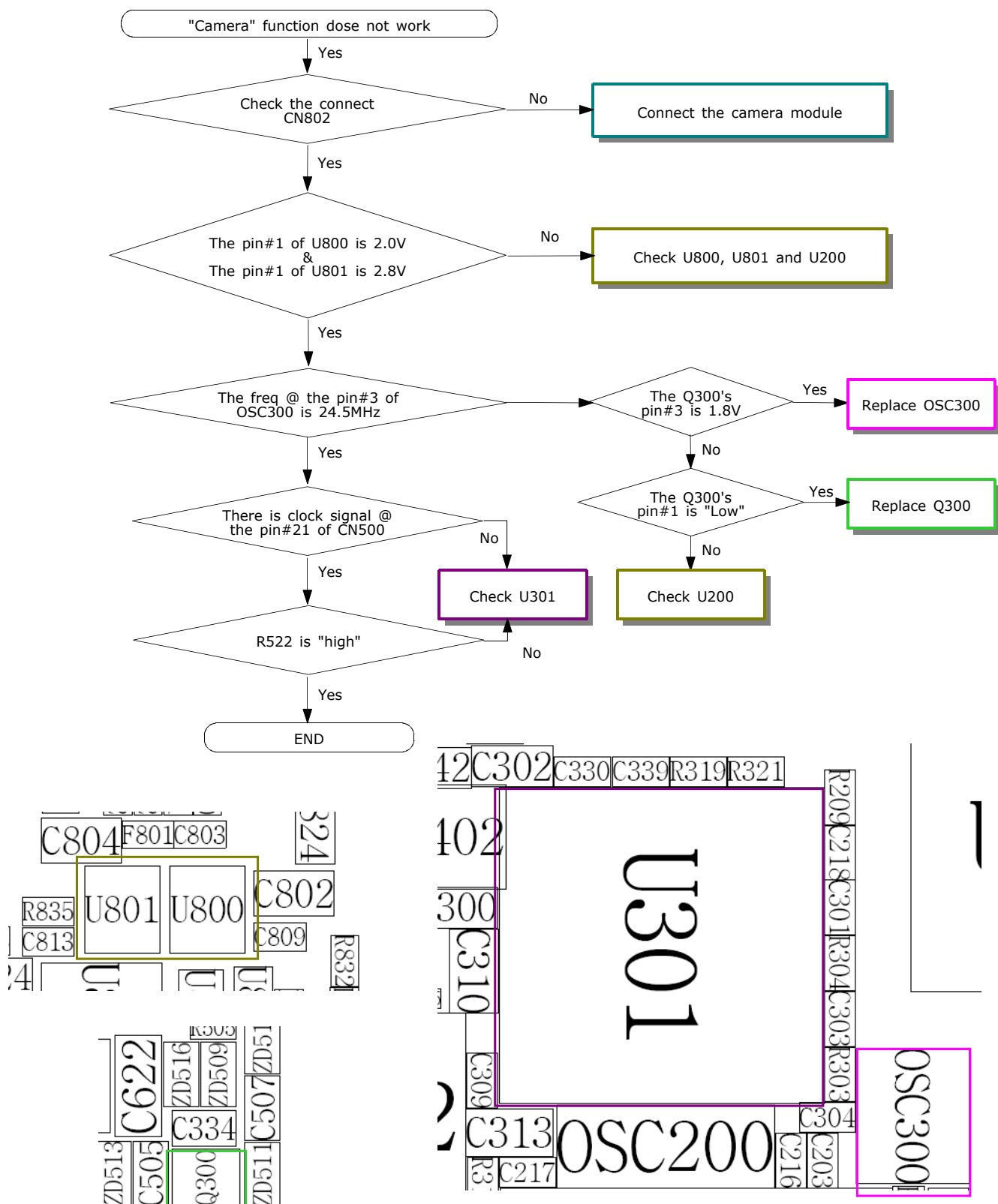


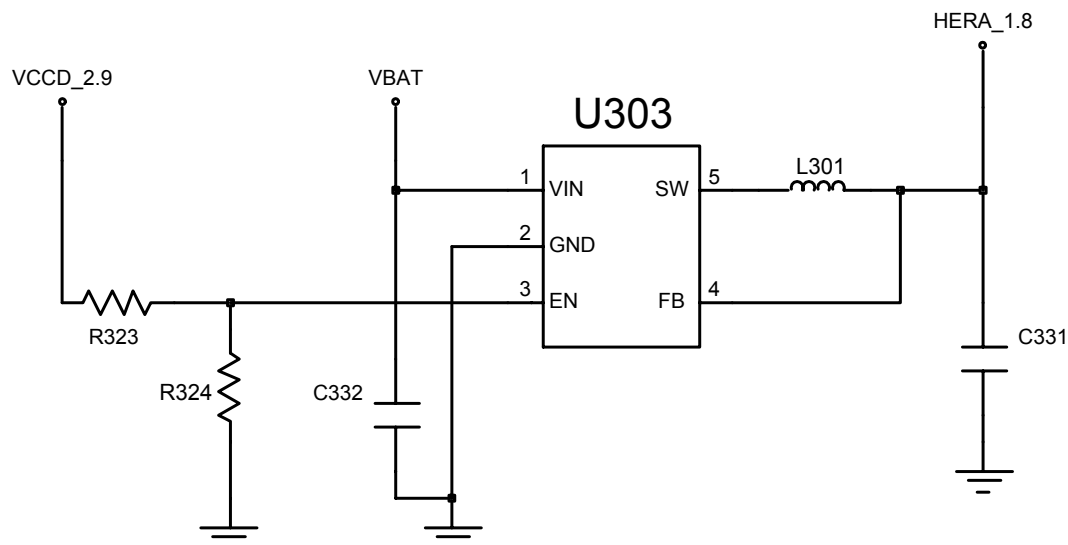
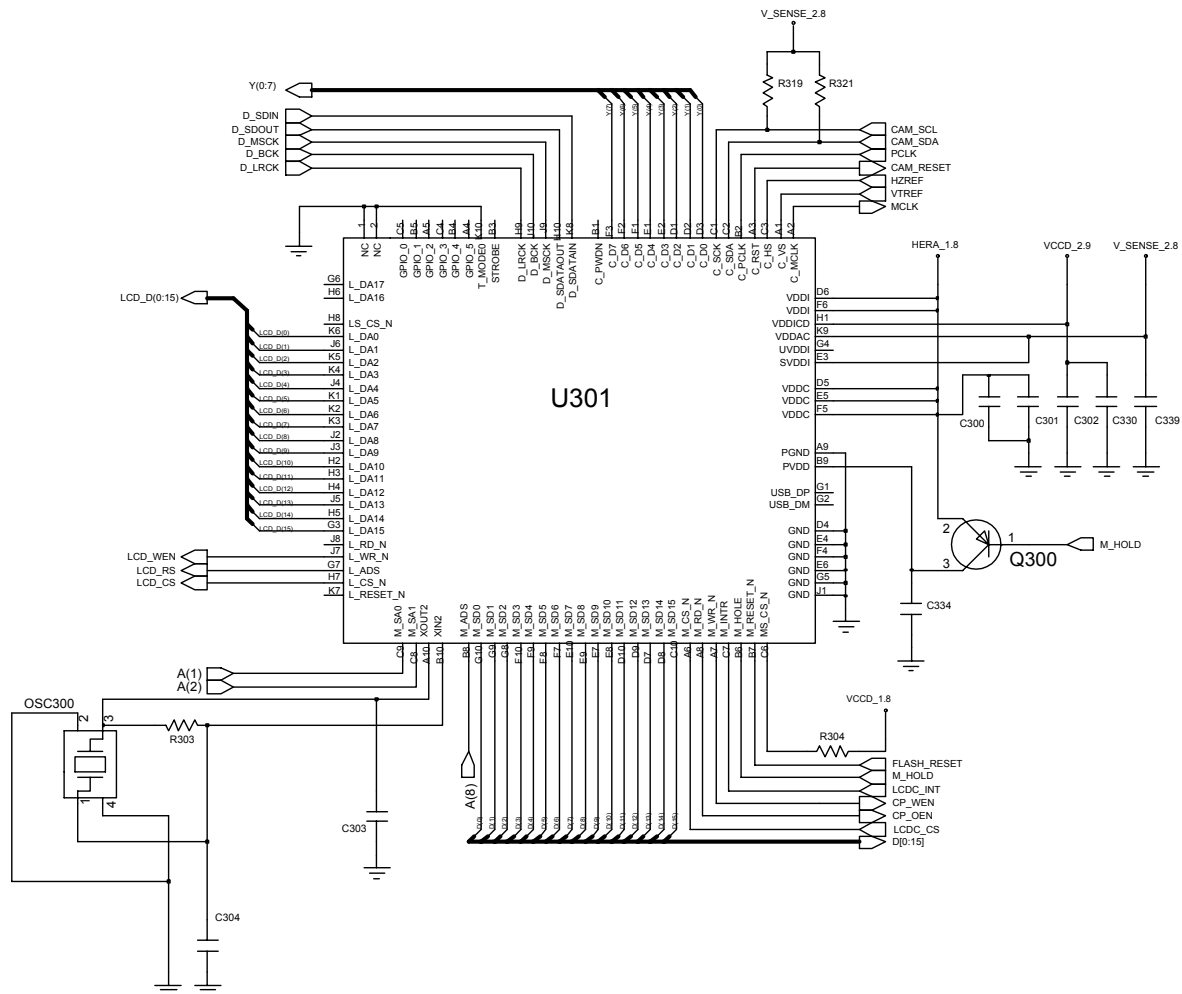


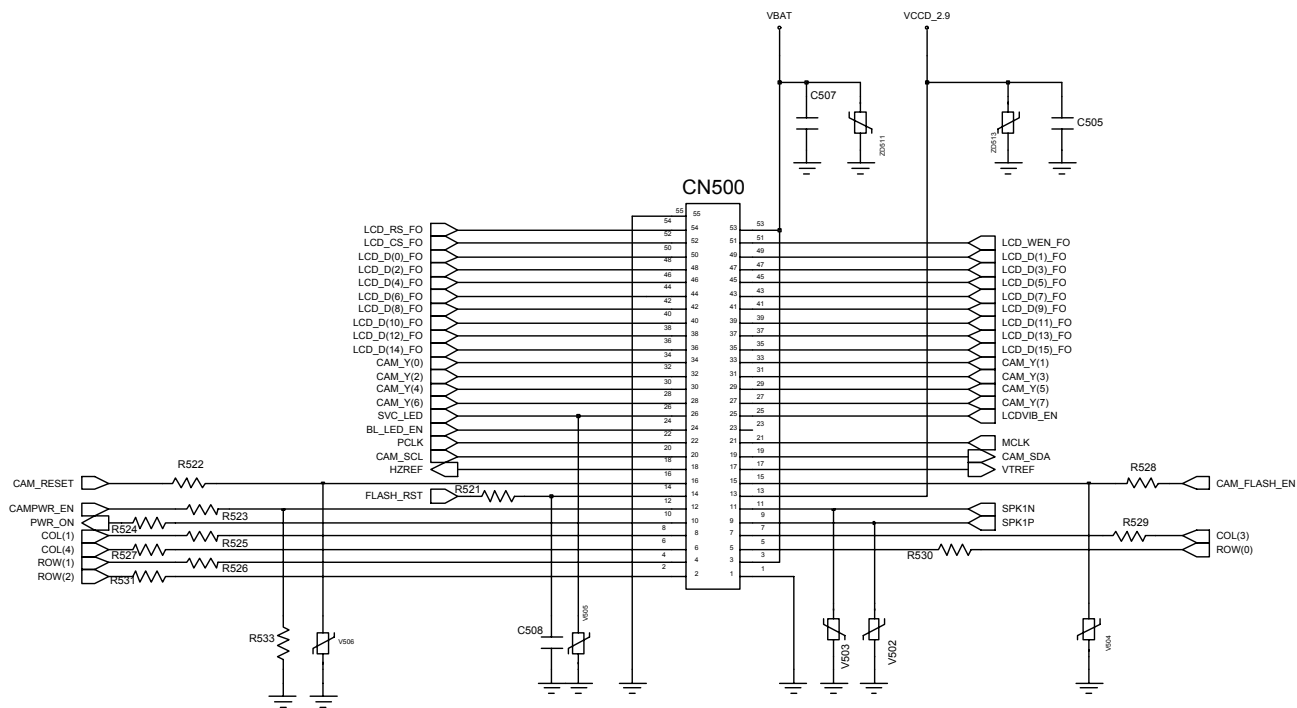
melody generator



2-1-6. Camera Part



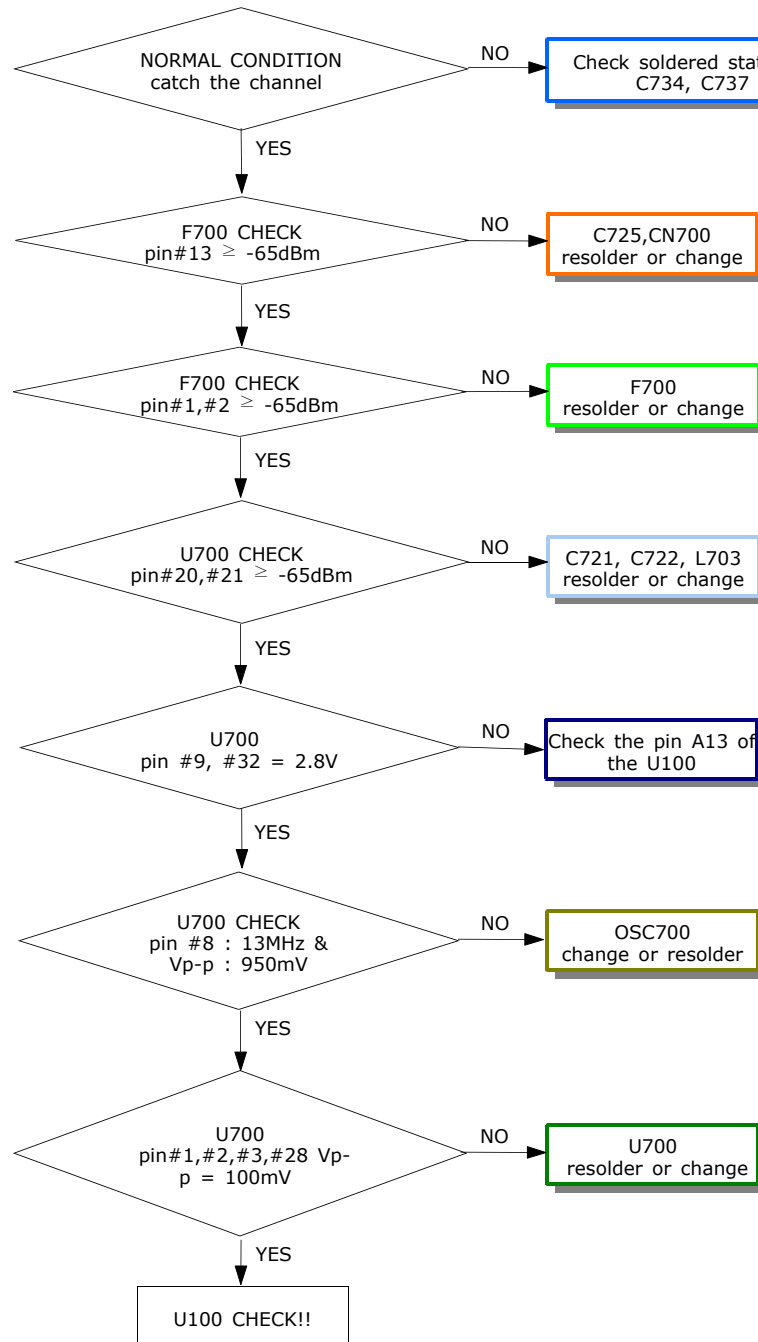




2-2.RF

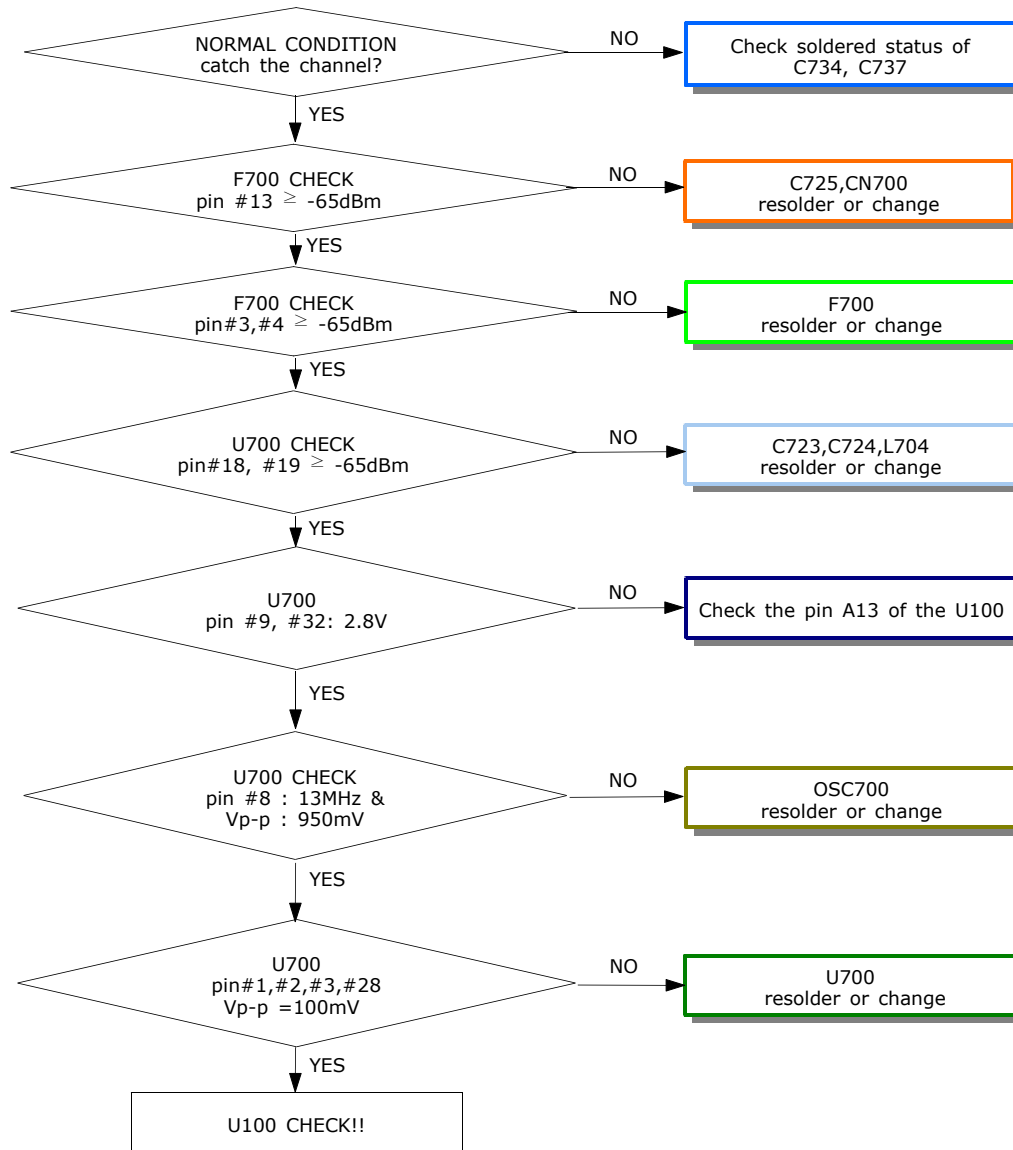
2-2-1. EGSM RX

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

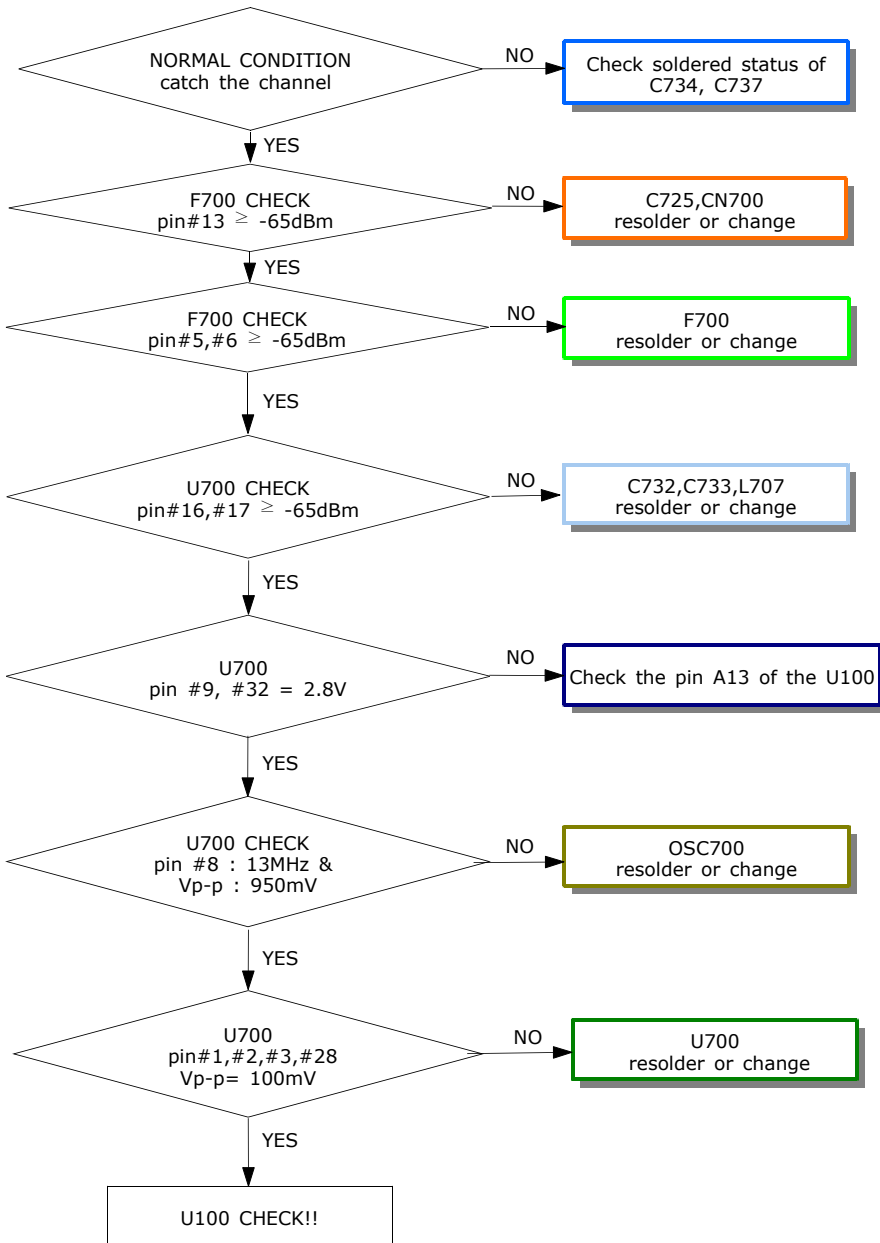


2-2-2. DCS RX

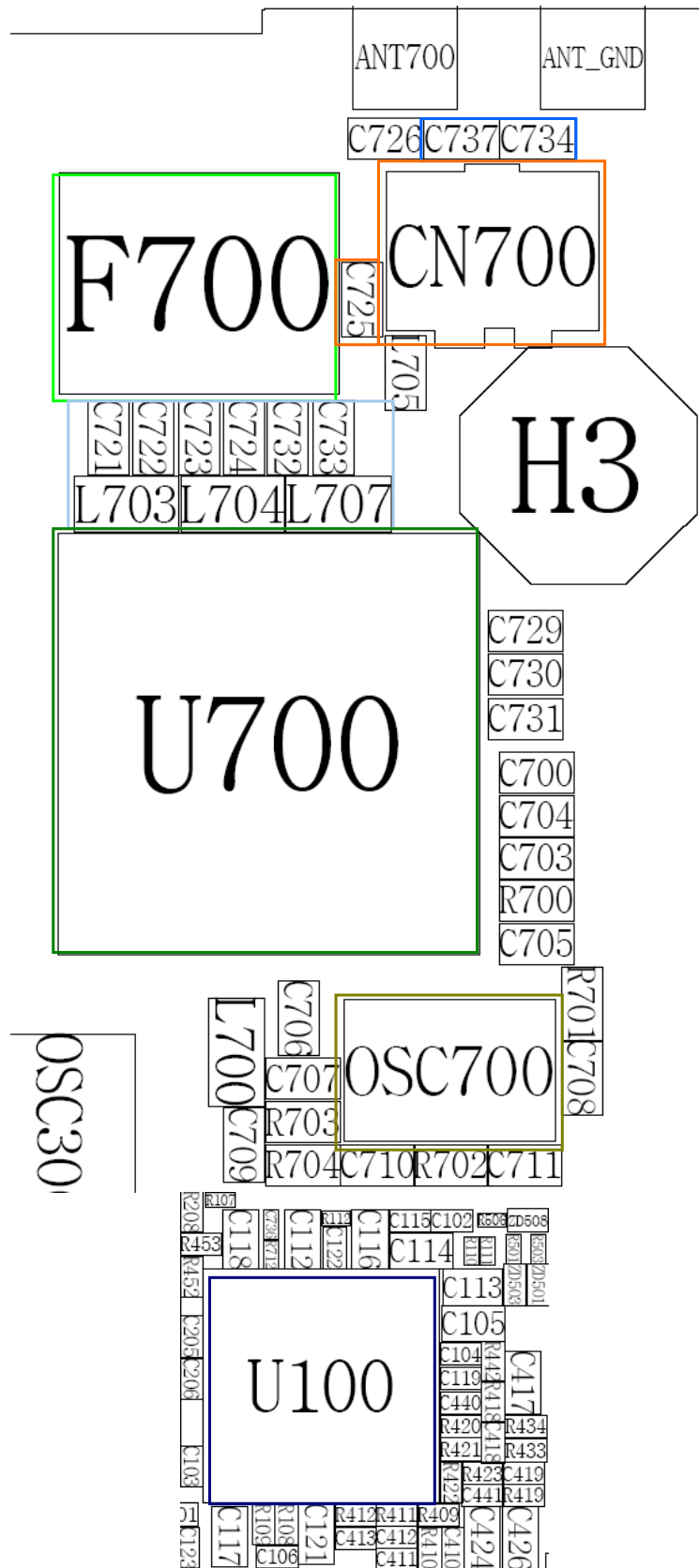
CONTINUOUS RX ON
RF INPUT : 660CH
AMP : -50dBm

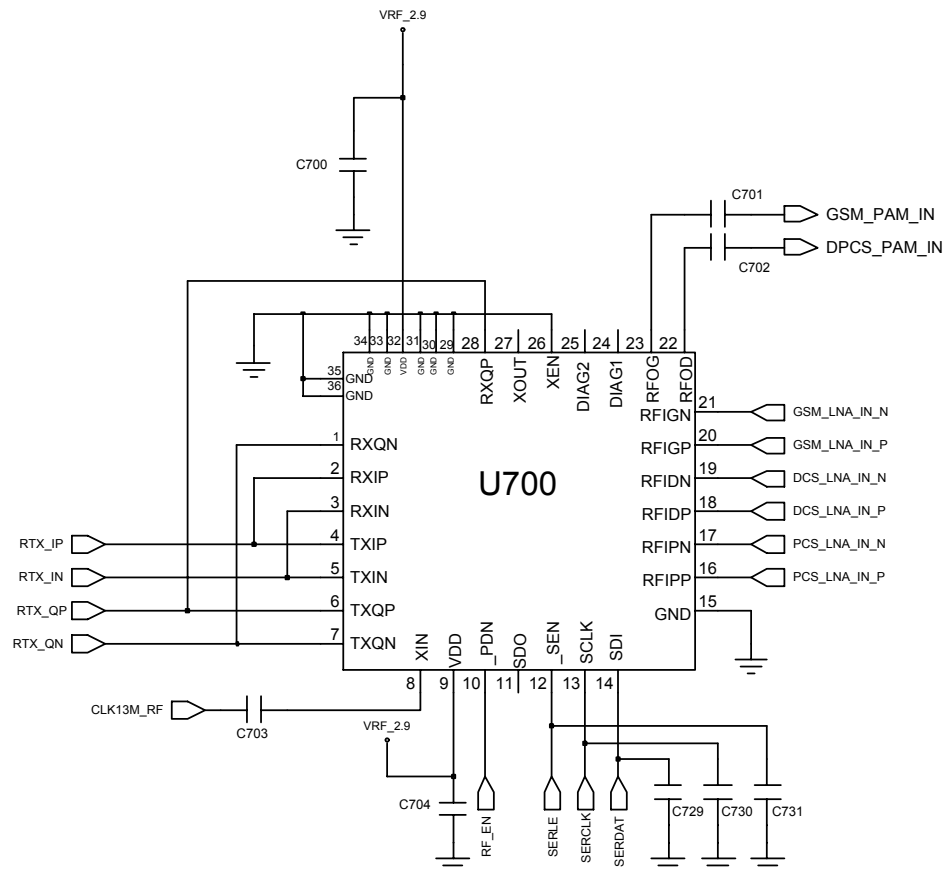
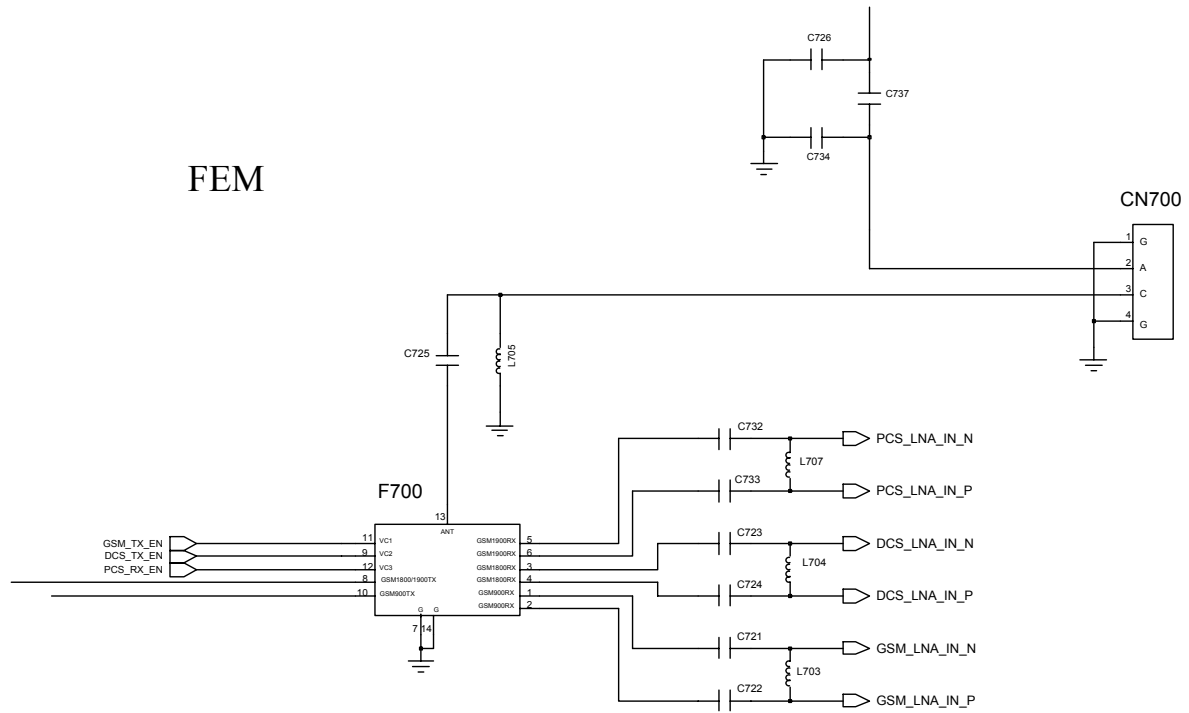


2-2-3. PCS RX

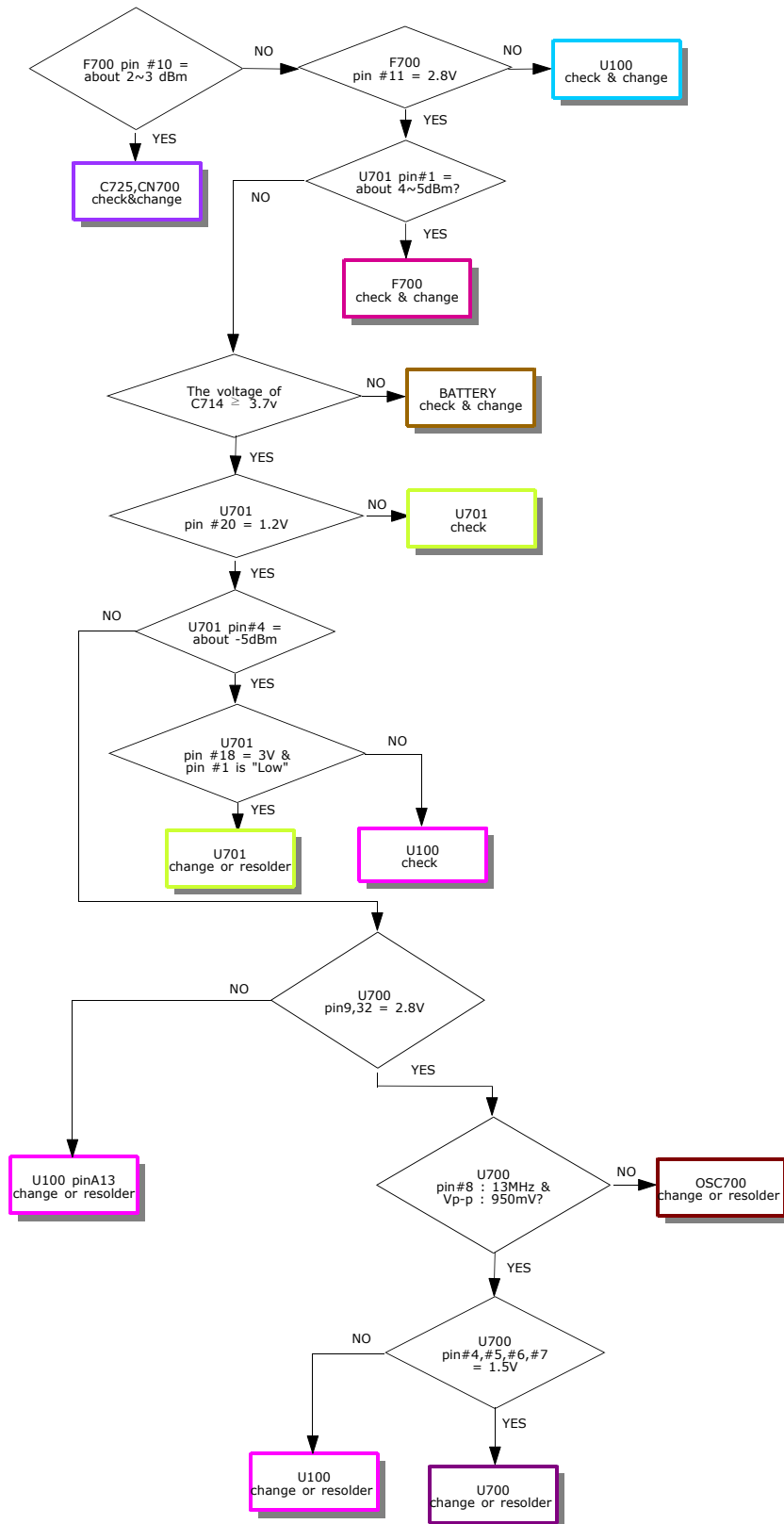


CONTINUOUS RX ON
RF INPUT : 660CH
AMP : -50dBm



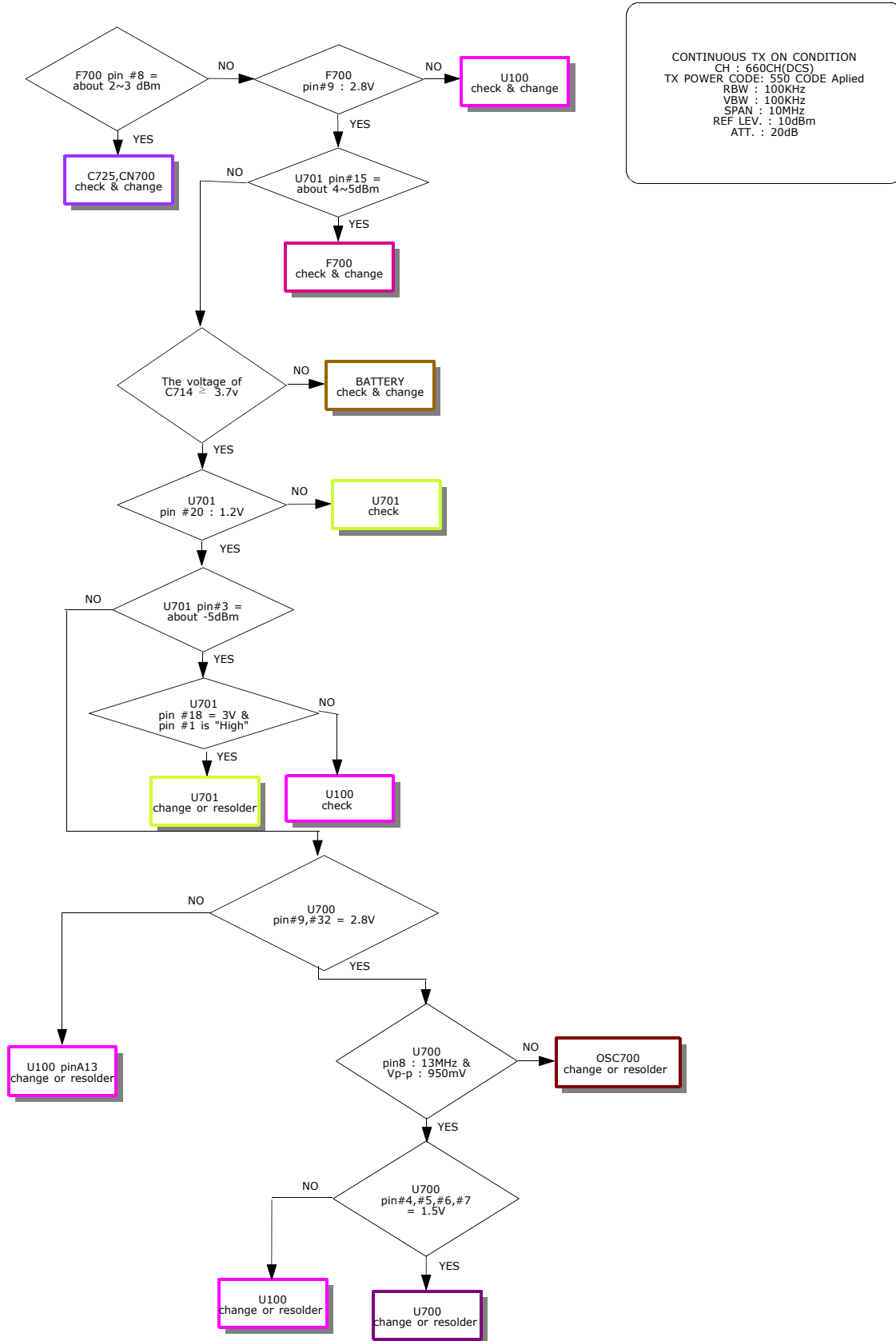


2-2-4. EGSM TX

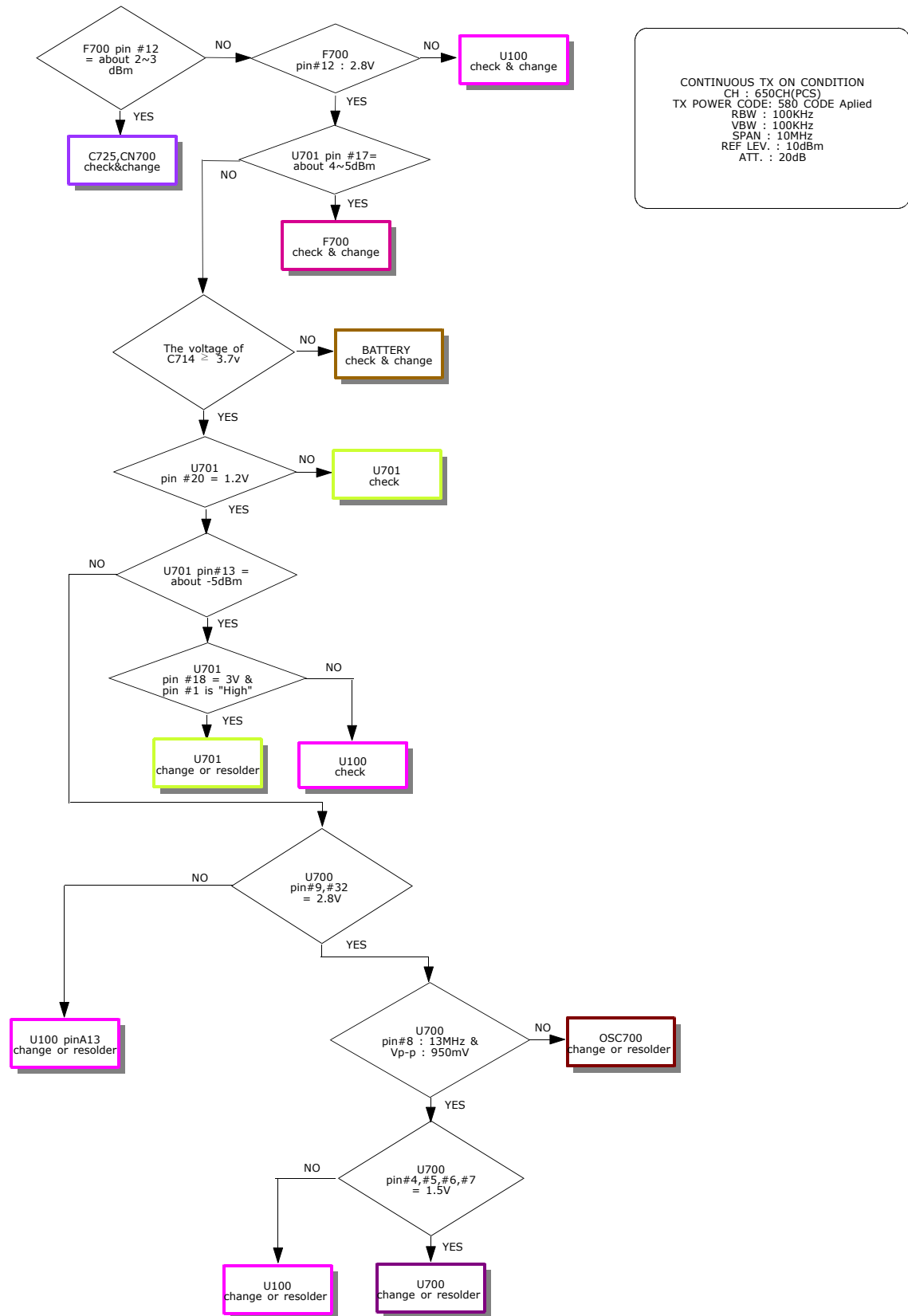


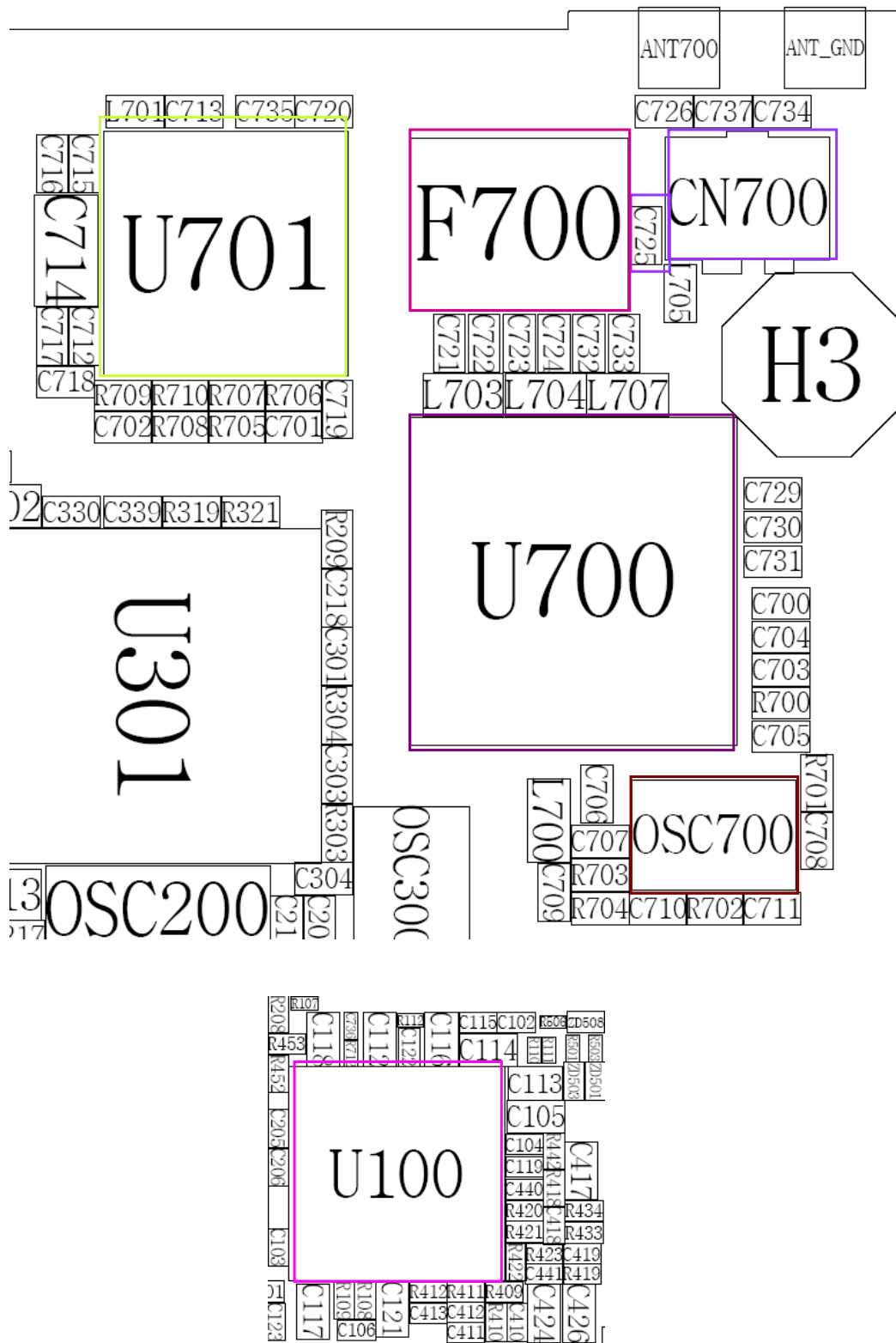
CONTINUOUS TX ON CONDITION
TX POWER DAC: 500 CODE APPLIED
CH : 30
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

2-2-5. DCS TX



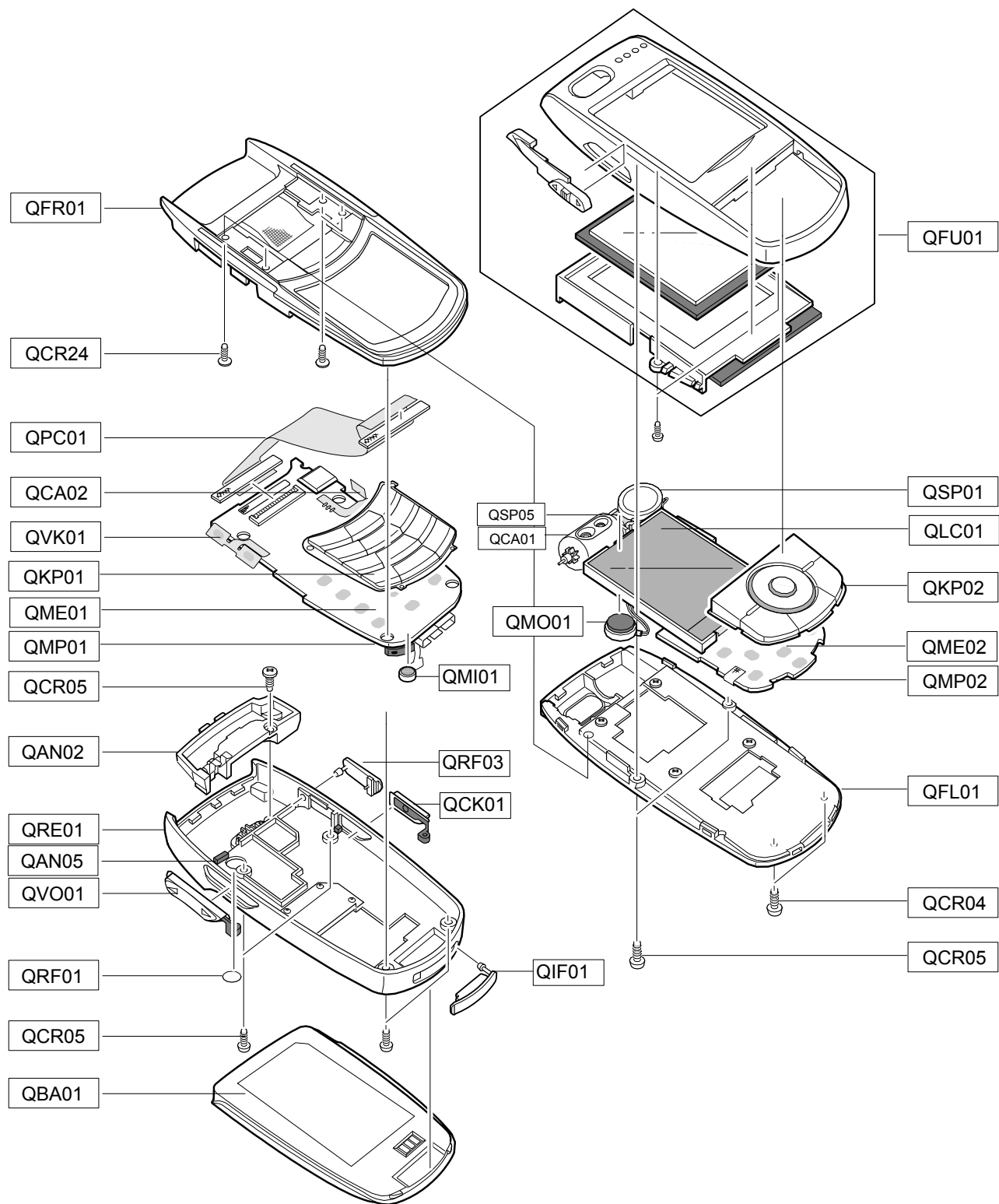
2-2-6. PCS TX





3. SGH-E880 Exploded View and Parts List

3-1. Cellular phone Exploded View



3-2. Cellular phone Parts list

Location NO.		Description	SEC CODE
QCR05		SCREW-MACHINE;PH,+,M1.4,L3,ZPC(BLK),	6001-001478
QBA01		BATTERY-800MAH,M/BLACK,ENG,M;BST4478	GH43-01742A
QRF01		MPR-TAPE RF HOLE CAP;SGH-E880,PC SHE	GH74-13316A
QMP01		PBA MAIN-SGHE880;SGH-E880,XET,ITAY,-	GH92-01992A
QMI01		MICROPHONE-ASSY;2,130~500uA,-42dB,2.	GH30-00180A
QME01		UNIT-METAL DOME;SGH-E880,SGH-E880 F/	GH59-01888A
QVK01		UNIT-VOLUME KEY;SGH-E880,SPH-E880 V/	GH59-01894A
QCA02		UNIT-CAM KEY;SGH-E880,SPH-E880 C/K,-	GH59-01895A
QSP01		SPEAKER;0.7W,8ohm,88dB±2dB,850Hz,13	3001-001775
QCR05		SCREW-MACHINE;PH,+,M1.4,L3,ZPC(BLK),	6001-001478
QCR04		SCREW-MACHINE;PH,+,M1.4,L4,NYLOK,SWR	6001-001479
QCR24		SCREW-MACHINE;CH,+,-,M1.4,L2,ZPC(BLK	6001-001892
QLC01		LCD-SCHS140 LCD;LTS170QC-F01,SCH-S14	GH07-00559A
QMO01		MOTOR DC;DMJBRK20NT,SGH-E880,90mA,-,	GH31-00138A
QPC01		PCB-SGHE880,FPCB;SGH-E880,POLYIMIDE,	GH41-00752A
QCA01		UNIT-CAMERA;SGH-E880,IC03035AA,-,GER	GH59-01902A
QSP05		MEC-SPK-MOT-HOLDER-ASSY;SGH-E880,ITA	GH75-06862A
QFR01		MEC-FRONT COVER SUB;SGH-E880,ITALY,-	GH75-06873A
QFL01		MEC-SLIDE LOWER SUB;SGH-E880,ITALY,-	GH75-06874A
QCR24		SCREW-MACHINE;CH,+,-,M1.4,L2,ZPC(BLK	6001-001892
QFU01		MEC-SLIDE UPPER SUB;SGH-E880,ITALY,-	GH75-06875A
QKP01		MEC-KEYPAD MAIN;SGH-E880,ITALY,-,-,B	GH75-06880A
QKP02		MEC-KEYPAD SUB;SGH-E880,ITAY,ABS,-,B	GH75-06892A
QMP02		PBA MAIN-SGHE880 LCD;SGH-E880,XET,IT	GH92-01998A
QME02		UNIT-NAVIGATION KEY;SGH-E880,SPH-E88	GH59-01893A
QCR05		SCREW-MACHINE;PH,+,M1.4,L3,ZPC(BLK),	6001-001478
QAN02		ANTENNA-SGHE880;SGH-E880,SGH-E880,88	GH42-00518A
QAN05		RMO-ANTENNA RUBBER;SGH-E880,CR RUBBE	GH73-04794A
QRE01		MEC-REAR COVER SUB;SGH-E880,ITALY,-,	GH75-06872A
	QRF03	PMO-EAR JACK COVER;SGH-E880,ABS+ELAS	GH72-20075A
	QIF01	PMO-IF COVER;SGH-E880,PC+ELASTOMER,S	GH72-20076A
	QVO01	MEC-VOLUME KEY;SGH-E880,ITALY,-,-,SI	GH75-06870A
	QCK01	MEC-CAMERA KEY;SGH-E880,ITALY,-,-,SI	GH75-06871A

Description	SEC CODE
ANTENNA-CHIP;2400-2484MHz,-,-,50oh	4202-001034
BAG PE;LDPE,T0.05,W80,L180,TRP,-,-	6902-000634
CHARGER-SGHE880 TC,EU,BLACK;TCH237EB	GH44-00998A
UNIT-EARPHONE;SGH-C230,EM-SS550E-STB	GH59-02166A
LABEL(P)-WATER SOAK;SCH-X110,NORGE,1	GH68-02026A
LABEL(R)-MAIN;SGH-E880,-,MAT,T0.1,30	GH68-06741A
MANUAL-WEEE CARD;SGH-E720,SEC,ENGLIS	GH68-07013A
MANUAL-USER;SGH-E880,XEF,FRENCH,FRAN	GH68-07309A
CUSHION-CASE;SGH-E880,PULP,T1.0,179,	GH69-02815A
BOX(P)-UNIT MAIN;SGH-E880,SC300+F(KO	GH69-02892A
MPR-HAND STRAP;SCH-A690,LEATHER,-,BL	GH74-05907A
MPR-BOHO VINYL FPCB CON;SGH-E880,BLU	GH74-13315A
MPR-GASKET LCD DOME;SGH-E880,GASKET,	GH74-13811A
MPR-GASKET LCD FPCB PBA;SGH-E880,GAS	GH74-13812A
MPR-GASKET EAR JACK;SGH-E880,GASKET,	GH74-13814A
MPR-GASKET MAIN LCD FPCB;SGH-E880,GA	GH74-13817A
MPR-GASKET DOME SHEET;SGH-E880,GASKE	GH74-13818A
MPR-TAPE SCR HOL CAP;SGH-E880,PC SHE	GH74-13820A
MPR-BOHO VINYL CAM BLUE;SGH-E880,INS	GH74-14397A
MPR-BOHO VINYL LCD CON;SGH-E880,INSU	GH74-14439A
MPR-BOHO VINYL BLUETOOTH;SGH-E880,HO	GH74-15013A
MPR-TAPE LCD SIDE BLACK;SGH-E880,3M	GH74-15014A
MPR-BOHO VINYL KEYPAD;SGH-E880,3M 41	GH74-15016A
MPR-CON GUIDE SHEET;SGH-E880,PC SHEE	GH74-15498A
MPR-BOHO VINYL PIECE;SGH-E880,3M4187	GH74-16153A
MEC-CAMERA LEVER;SGH-E880,ITALY,-,-,	GH75-06868A
MEC-MIC HOLDER;SGH-E880,ITALY,-,-,SI	GH75-06869A
MEC-HINGE;SGH-E880,ITALY,-,-,SIL,-,-	GH75-06881A

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



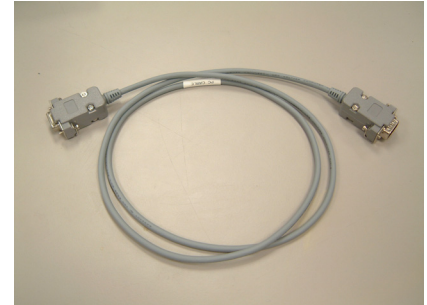
3-3-1. RF Test Cable
(GH39-00283A)



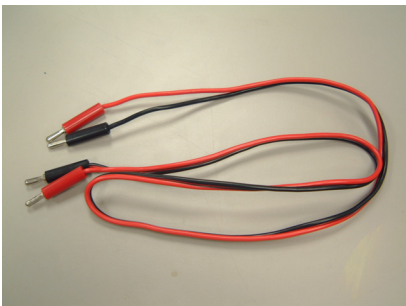
3-3-2. Logic Test Cable
(GH39-00388A)



3-3-3. Serial Cable



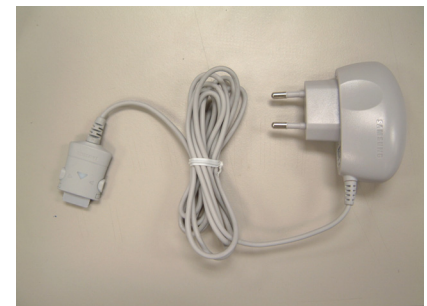
3-3-4. Power Supply
Cable



3-3-5. DATA Link CABLE
(GH39-00404A)



3-3-6. Travel Charger
(GH44-00861A)



4. SGH-E880 MAIN Electrical Parts List

Design LOC	SEC Code	Discription
GH92-01992A		PBA MAIN-SGHE880
0403-001387	ZD603	DIODE-ZENER
0406-001167	ZD600	DIODE-TVS
0406-001167	ZD601	DIODE-TVS
0504-001140	Q201	TR-DIGITAL
0504-001140	Q300	TR-DIGITAL
0504-001141	Q200	TR-DIGITAL
0601-002053	LED500	LED
0601-002053	LED501	LED
0601-002053	LED502	LED
0601-002053	LED503	LED
0601-002053	LED504	LED
0601-002053	LED505	LED
0601-002053	LED506	LED
0601-002053	LED507	LED
0801-002529	U205	IC-CMOS LOGIC
1001-001306	U400	IC-ANALOG MULTIPLEX
1006-001313	U203	IC-BUS TRANSCEIVER
1009-001018	U201	IC-HALL EFFECT S/W
1108-000003	U300	IC-MCP
1201-002007	U402	IC-AUDIO AMP
1201-002218	U701	IC-POWER AMP
1203-002625	U600	IC-POSI.FIXED REG
1203-003105	U202	IC-POSI.FIXED REG
1203-003169	U304	IC-MULTI REG
1203-003428	U303	IC-DC/DC CONVERTER
1203-003472	U100	IC-POWER SUPERVISOR
1204-001915	U204	IC-FILTER
1204-002138	U401	IC-MELODY
1205-002433	U700	IC-TRANSCEIVER
1205-002612	U301	IC-CODEC
1205-002613	U302	IC-CODEC
1404-001165	U101	THERMISTOR-NTC
1405-001082	V502	VARISTOR
1405-001082	V503	VARISTOR
1405-001082	V504	VARISTOR
1405-001082	V505	VARISTOR
1405-001082	V506	VARISTOR
1405-001082	ZD400	VARISTOR
1405-001082	ZD401	VARISTOR
1405-001082	ZD402	VARISTOR
1405-001082	ZD403	VARISTOR
1405-001082	ZD404	VARISTOR

Design LOC	SEC Code	Discription
1405-001082	ZD405	VARISTOR
1405-001082	ZD406	VARISTOR
1405-001082	ZD407	VARISTOR
1405-001108	ZD408	VARISTOR
1405-001108	ZD409	VARISTOR
1405-001108	ZD500	VARISTOR
1405-001108	ZD501	VARISTOR
1405-001108	ZD502	VARISTOR
1405-001108	ZD503	VARISTOR
1405-001108	ZD504	VARISTOR
1405-001108	ZD505	VARISTOR
1405-001108	ZD506	VARISTOR
1405-001108	ZD507	VARISTOR
1405-001108	ZD508	VARISTOR
1405-001108	ZD509	VARISTOR
1405-001108	ZD511	VARISTOR
1405-001108	ZD513	VARISTOR
1405-001108	ZD514	VARISTOR
1405-001108	ZD515	VARISTOR
1405-001108	ZD516	VARISTOR
1405-001108	ZD517	VARISTOR
1405-001108	ZD604	VARISTOR
2007-000138	R700	R-CHIP
2007-000140	R202	R-CHIP
2007-000141	R311	R-CHIP
2007-000141	R704	R-CHIP
2007-000142	R414	R-CHIP
2007-000142	R419	R-CHIP
2007-000143	R319	R-CHIP
2007-000143	R321	R-CHIP
2007-000148	R452	R-CHIP
2007-000148	R702	R-CHIP
2007-000155	R201	R-CHIP
2007-000157	R212	R-CHIP
2007-000157	R304	R-CHIP
2007-000159	R218	R-CHIP
2007-000160	R324	R-CHIP
2007-000162	R203	R-CHIP
2007-000162	R208	R-CHIP
2007-000162	R310	R-CHIP
2007-000162	R323	R-CHIP
2007-000162	R420	R-CHIP
2007-000162	R422	R-CHIP

Design LOC	SEC Code	Discription
2007-000162	R701	R-CHIP
2007-000170	R303	R-CHIP
2007-000171	R108	R-CHIP
2007-000171	R313	R-CHIP
2007-000171	R314	R-CHIP
2007-000171	R429	R-CHIP
2007-000171	R431	R-CHIP
2007-000171	R433	R-CHIP
2007-000171	R434	R-CHIP
2007-000171	R436	R-CHIP
2007-000171	R451	R-CHIP
2007-000171	R617	R-CHIP
2007-000172	R209	R-CHIP
2007-000172	R316	R-CHIP
2007-000172	R317	R-CHIP
2007-001119	R442	R-CHIP
2007-001290	R402	R-CHIP
2007-001290	R437	R-CHIP
2007-001291	R705	R-CHIP
2007-001291	R708	R-CHIP
2007-001292	R439	R-CHIP
2007-001292	R440	R-CHIP
2007-001301	R515	R-CHIP
2007-001301	R516	R-CHIP
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2007-001301	R534	R-CHIP
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2007-001307	R706	R-CHIP
2007-001307	R707	R-CHIP
2007-001307	R709	R-CHIP
2007-001307	R710	R-CHIP
2007-001319	R103	R-CHIP
2007-001323	R413	R-CHIP
2007-001323	R418	R-CHIP
2007-001323	R618	R-CHIP
2007-001325	R403	R-CHIP
2007-002797	R703	R-CHIP
2007-007107	R406	R-CHIP
2007-007107	R409	R-CHIP
2007-007107	R411	R-CHIP

Design LOC	SEC Code	Discription
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2007-007107	R449	R-CHIP
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2203-000425	C709	C-CER,CHIP
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2203-000654	C422	C-CER,CHIP
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2203-000885	C317	C-CER,CHIP
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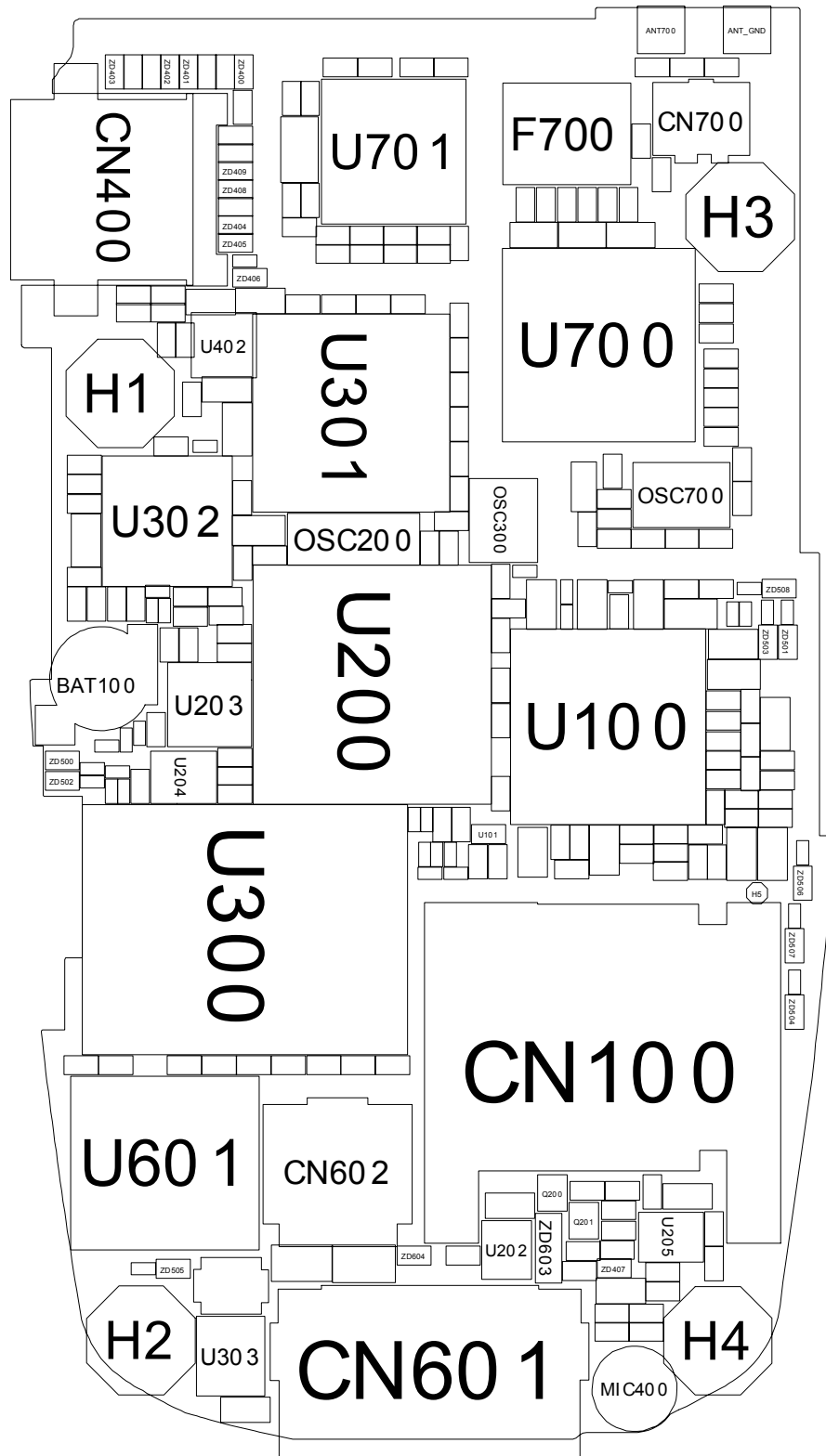
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2203-002759	C446	C-CER,CHIP
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2203-005482	C334	C-CER,CHIP
2203-005482	C338	C-CER,CHIP
2203-005482	C339	C-CER,CHIP
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2203-005482	C700	C-CER,CHIP

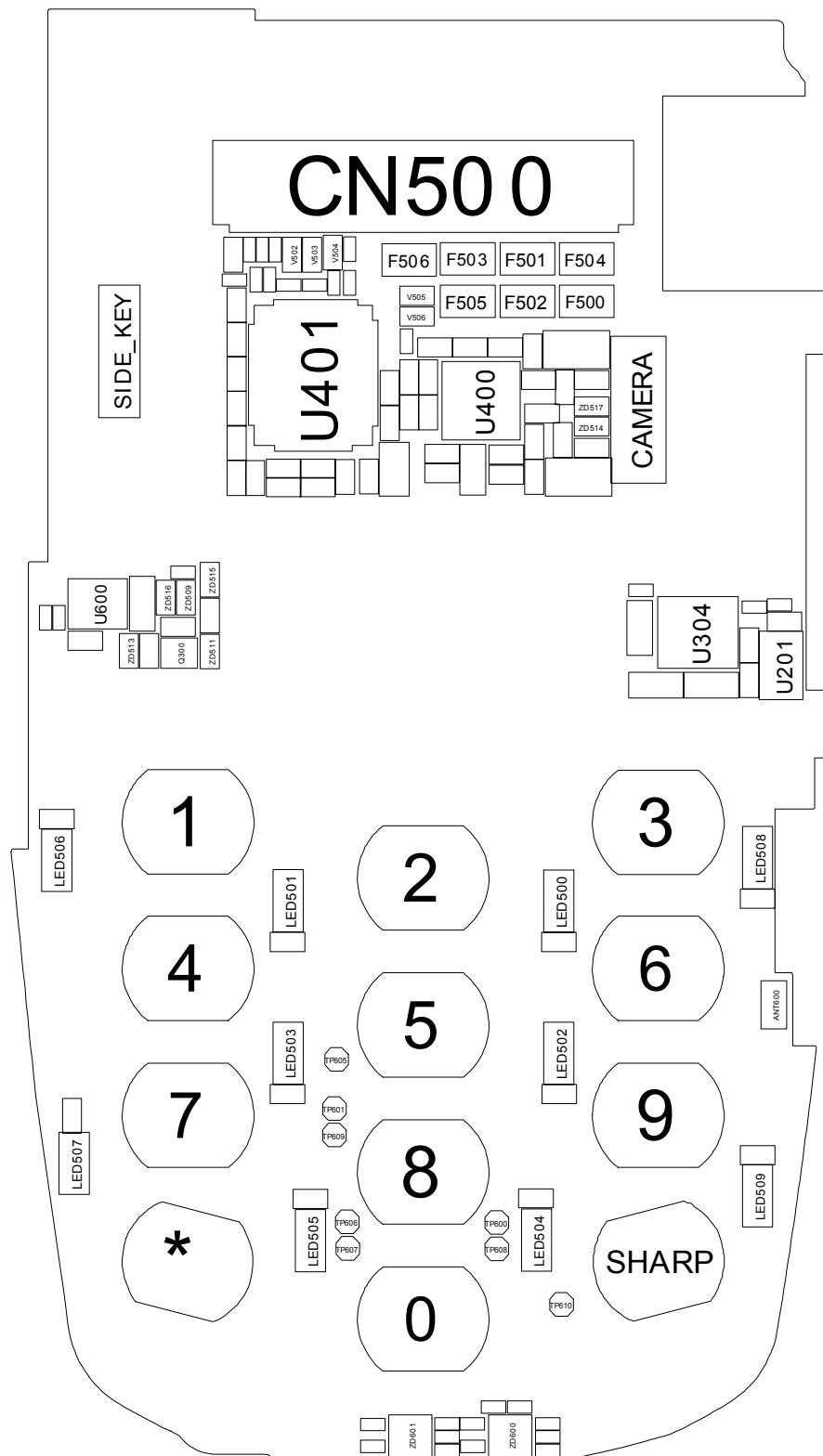
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2203-006053	C300	C-CER,CHIP
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2203-006108	C121	C-CER,CHIP
2203-006137	C119	C-CER,CHIP
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2203-006137	C704	C-CER,CHIP
2203-006141	C435	C-CER,CHIP
2203-006190	C411	C-CER,CHIP
2203-006190	C413	C-CER,CHIP
2203-006190	C418	C-CER,CHIP
2203-006190	C419	C-CER,CHIP
2203-006194	C623	C-CER,CHIP
2203-006208	C332	C-CER,CHIP
2203-006260	C326	C-CER,CHIP
2203-006260	C329	C-CER,CHIP
2203-006260	C450	C-CER,CHIP
2203-006324	C109	C-CER,CHIP
2203-006324	C212	C-CER,CHIP
2203-006324	C442	C-CER,CHIP
2203-006438	C451	C-CER,CHIP

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2203-006626	C507	C-CER,CHIP
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2404-001225	C314	C-TA,CHIP
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2404-001225	C417	C-TA,CHIP
2404-001225	C424	C-TA,CHIP
2404-001225	C426	C-TA,CHIP
2404-001240	C313	C-TA,CHIP
2404-001339	C335	C-TA,CHIP
2404-001339	C336	C-TA,CHIP
2404-001339	C337	C-TA,CHIP
2404-001339	C622	C-TA,CHIP
2404-001352	C714	C-TA,CHIP
2404-001380	C311	C-TA,CHIP
2404-001380	C312	C-TA,CHIP
2404-001392	C601	C-TA,CHIP
2703-001178	C720	INDUCTOR-SMD
2703-001180	L701	INDUCTOR-SMD
2703-001876	L705	INDUCTOR-SMD
2703-001907	L703	INDUCTOR-SMD
2703-002165	L704	INDUCTOR-SMD
2703-002547	L707	INDUCTOR-SMD
2703-002775	L301	INDUCTOR-SMD
2801-003747	OSC200	CRYSTAL-SMD
2801-004225	OSC300	CRYSTAL-SMD
2809-001284	OSC700	OSCILLATOR-VCTCXO
2901-001296	F500	FILTER-LC
2901-001296	F501	FILTER-LC
2901-001296	F502	FILTER-LC
2901-001296	F503	FILTER-LC
2901-001296	F504	FILTER-LC
2901-001296	F505	FILTER-LC
2901-001296	F506	FILTER-LC
2911-000003	F700	DUPLEXER-FEM
3301-001105	L700	CORE-FERRITE
3301-001438	L201	BEAD-SMD
3705-001358	CN700	CONNECTOR-COAXIAL
3708-001982	CN500	CONNECTOR-FPC/FFC /PIC
3711-005897	CN602	CONNECTOR-HEADER

Design LOC	SEC Code	Discription
3709-001229	CN100	CONNECTOR- CARD EDGE
3710-002225	CN601	CONNECTOR- INTERFACE
3722-002181	CN400	JACK-EAR PHONE
4302-001158	BAT100	BATTERY-LI(2ND)
4709-001350	U601	BLUETOOTH MODULE
GH09-00033A	U200	IC MICOM-SGHE720
GH41-00745A		PCB-SGHE880 MAIN
GH96-01773A		ELA UNIT-SGHE880
4202-001034		ANTENNA-CHIP
GH30-00180A		MICROPHONE-ASSY
GH59-01888A		UNIT-METAL DOME
GH59-01894A		UNIT-VOLUME KEY
GH59-01895A		UNIT-CAM KEY
GH74-13814A		MPR-GASKET EAR JACK
GH74-13818A		MPR-GASKET DOME SHEET

5. SGH-E880 PCB Diagrams





6-1. Block Diagram

[illegible]

**SAMSUNG
ELECTRONICS**

