

SAMSUNG

UMTS TELEPHONE

SGH-ZV40

SERVICE *Manual*

UMTS TELEPHONE



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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 magnetic 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 disassembling 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.

1-2. ESD(Electrostatically Sensitive Devices) Precaution

Several semiconductor may be damaged easily 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.

2. Specification

2-1. GSM General Specification

	EGSM900	DCS1800	PCS1900	W-CDMA
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
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	
Cell Radius	35Km	2Km	2Km	2Km

2-2. GSM Tx Power Class

TX Power control level	GSM900	TX Power control level	DCS1800	TX Power control level	PCS1800
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

3. Product Function

Main Function

- Camera and camcorder
- Image editor
- MP3 player
- Phonebook
- Name card
- Multimedia Message Service (MMS)
- E-mail
- Voice recorder
- Bluetooth
- Get personal with photo caller ID
- Web browser
- Java
- Calendar

4. Array course control



Test Cable (GH39-00397A)



RF Test Cable (GH39-00283A)

Software Downloading

4-1. Downloading Binary Files

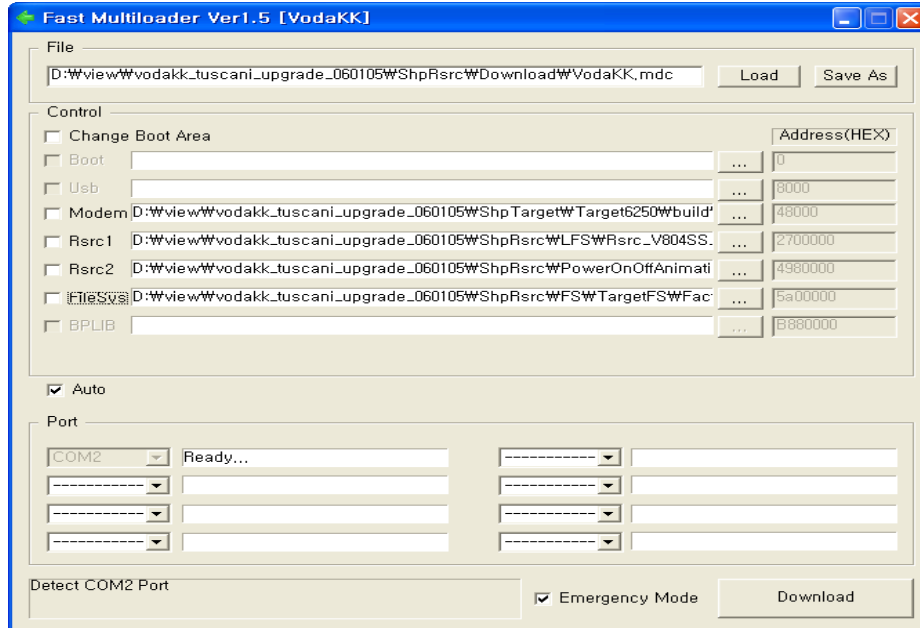
- Three binary files for downloading V804SS.
 - VMSZT.bin : Modem binary for communication function
& Mocha binary for user interface and various application
 - Rsrc_ZV40_VodafoneKK.cnt: Files need for each application
 - Rsrc2.cnt : Power on/off animation
 - FactoryFs_ZV40_VodafoneKK.bin : Default file system to be put into in initial production

4-2. Pre-requisite for Downloading

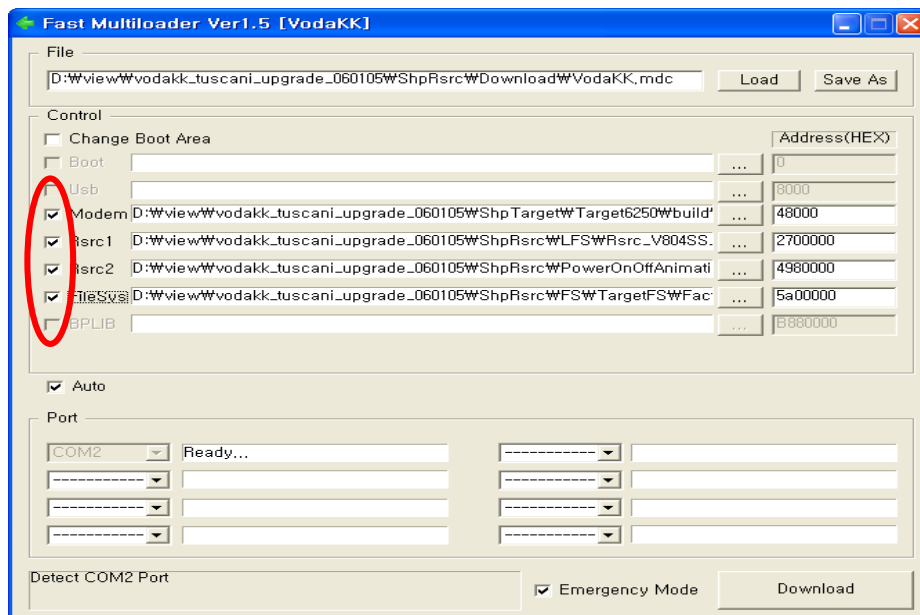
- Downloader Program([FastMultiloader1.5.exe](#))
- V804SS Mobile Phone
- Data Cable
- Binary files

4-3. S/W Downloader Program

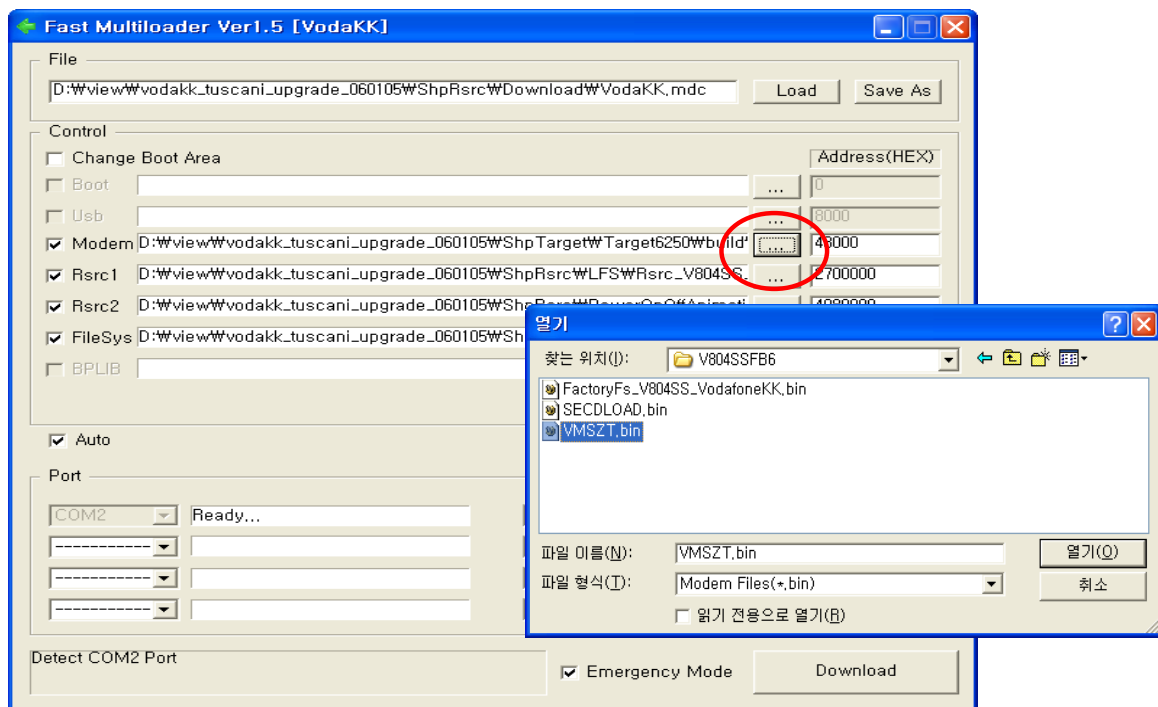
1. Boot the V804SS by pressing 'Power ON key' + 'Number 9 key' at the same time-
If you do properly, you can see the following message on sub LCD "DOWNLOAD VODAKK 4.0"
2. Load the binary download program by executing the "**FastMultiloader1.5.exe**"



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

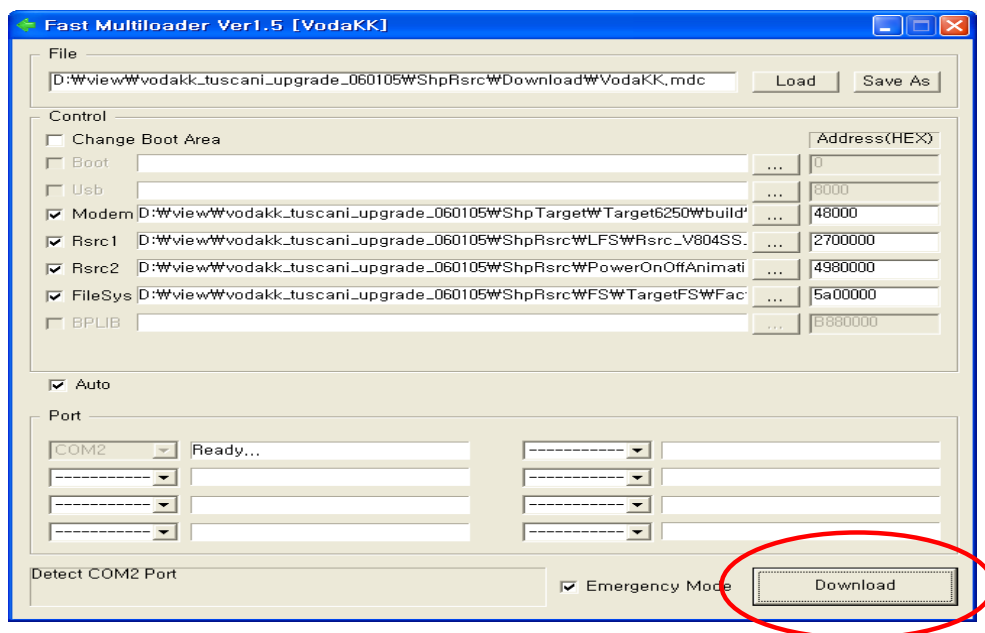


4. Select the binary file what you want to download



* Up to eight ports are supported.

5. Now press the button 'DownLoad'.

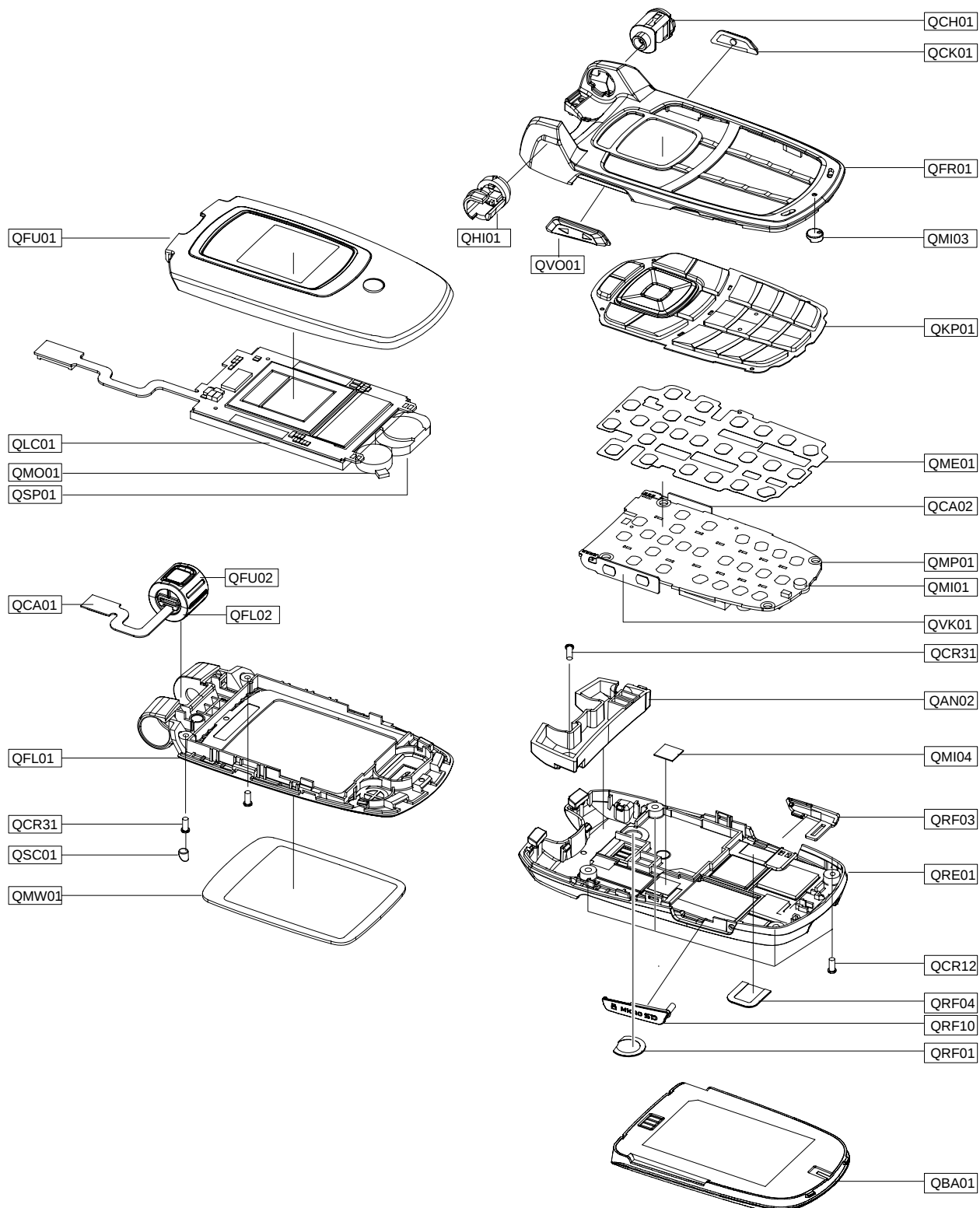


6. When downloading is complete, UE reboot automatically.

- If there is difference in FactoryFs.bin, UE will format file system automatically.

5. Exploded View and Parts List

5-1. Cellular phone Exploded View



5-2. Cellular phone Parts list

Design LOC		Discription	SEC Code
QAN02		ANTENNA	GH42-00785A
QBA01		BATTERY-1000MA, DARK WARM GRAY	GH43-02482A
QCA01		UNIT-CAMERA 1/4"	GH59-03184A
QCA02		UNIT-CAMERA KEY	GH59-03015A
QCH01		ASSY MEC-HINGE CAMERA	GH75-09535A
QCK01		PMO-CAMERA KEY	GH72-29874A
QCR12		SCREW-MACHINE	6001-001530
QCR31		SCREW-MACHINE	6001-001795
QCR31		SCREW-MACHINE	6001-001795
QFL02		PMO-COVER CAM LOWER V2	GH72-31680A
QFR01		MEC-CASE FRONT	GH75-09532A
QFU01		MEC-CASE UPPER	GH75-09530A
QFU02		ASSY CASE-CAM UPPERV2	GH98-01512A
QKP01		ASSY MEC-KEYPAD(EU/SIL)	GH75-09534A
QLC01		ELA ETC-LCD MODULE	GH96-02169A
QME01		UNIT-DOME SHEET(MAIN)	GH59-03017A
QMI01		MICROPHONE-ASSY-SGHE340	GH30-00199A
QMI03		RMO-RUBBER MIC	GH73-06711A
QMO01		MOTOR DC-SPHV8400	GH31-00187A
QMP01		PBA MAIN-SGH-ZV40(VD2)	GH92-02740A
QMW01		PCT-COVER MAIN WINDOW	GH72-29869A
QRF01		MPR-TAPE RF SWITCH	GH74-21757A
QRF03		PMO-COVER EAR JACK	GH72-29877A
QRF04		MPR-TAPE COVER EAR JACK	GH74-21758A
QSC01		RMO-RUBBER SCREW COVER L	GH73-06708A
QSP01		SPEAKER	3001-001956
QVK01		UNIT-VOLUME KEY	GH59-03016A
QVO01		PMO-VOLUME KEY	GH72-29873A
QFL01		MEC-CASE LOWER	GH75-09531A
	QHI01	ASSY-HINGE-SGHZV40	GH98-00969A
QRE01		MEC-CASE REAR	GH75-09533A
	QMI04	RMO-RUBBER PMIC	GH73-06713A
	QRF10	PMO-COVER SD CARD	GH72-29876A

Discription	SEC Code
CARD-WARRANTY	6801-001501
BAG PE	6902-000634
CBF INTERFACE-DATA LINK CABLE	GH39-00444A
ADAPTOR-SGHD800 TA(EU)	GH44-01060A
S/W CD-SGH-ZV40 SAMSUNG PC STU	GH46-00239A
UNIT-EARPHONE(BLK)	GH59-02499A
SPRING ETC-BATT LOCKER	GH61-00120A
LABEL(P)-WATER SOAK	GH68-02026A
LABEL(P)-WATER SOAK	GH68-02026A
MANUAL USERS-VODA ENGLISH	GH68-09843A
MANUAL USERS-VODA DUTCH	GH68-09849A
LABEL(R)-MAIN(EU)	GH68-10711A
MANUAL USERS-VODA QSG DUTCH	GH68-11173A
BOX-UNIT(VODA)	GH69-03907A
CUSHION-CASE(EU)	GH69-03908A
PCT-COVER SUB WINDOW	GH72-29868A
RMO-RUBBER PCB CON	GH73-06710A
RMO-RUBBER LCD EMI	GH73-07569A
MPR-REMOVE TAPE LCD	GH74-13804A
MPR-BOHO VINYL LCD CONN	GH74-15350A
MPR-TAPE FPCB DOUBLE	GH74-16772A
MPR-TAPE REMOVE LCD	GH74-18286A
MPR-TAPE MAIN LDI	GH74-19992A
MPR-TAPE SUB LCD INS	GH74-20485A
MPR-TAPE MAIN WINDOW	GH74-21752A
MPR-TAPE FRONT PROTECTIOL	GH74-21754A
MPR-TAPE PCB DOME A	GH74-21755A
MPR-VINYL BOHO UPPER	GH74-21776A
MPR-VINYL BOHO UPPER	GH74-21776A
MPR-TAPE PCB DOME B	GH74-23172A
MPR-TAPE LCD CON B	GH74-24226A
MPR-TAPE ZIP CON	GH74-24514A
MPR-TAPE PCB DOME C	GH74-25278A
MPR-VINYL BOHO REAR	GH74-25644A
MPR-VINYL BOHO MAIN WIN	GH74-25645A
MPR-TAPE PCB CON	GH74-25646A
MPR-SPONGE FPCB	GH74-25722A
ASSY RUBBER-PCB CON	GH98-01796A

6. MAIN Electrical Parts List

Design LOC	Discription	SEC Code	STATUS
AN100	NPR-ANTENNA CONTACT	GH71-04302A	SA
AN101	NPR-ANTENNA CONTACT	GH71-04302A	SA
AN400	ANTENNA-CHIP	4202-001134	SA
BAT500	BATTERY-LI(2ND)	4302-001130	SA
BTC401	HEADER-BATTERY	3711-006026	SA
C100	C-CER,CHIP	2203-005717	SA
C101	C-CER,CHIP	2203-005808	SA
C102	C-CER,CHIP	2203-005806	SA
C103	C-CER,CHIP	2203-005682	SA
C104	C-CER,CHIP	2203-002677	SA
C105	INDUCTOR-SMD	2703-002198	SA
C106	C-CER,CHIP	2203-006423	SA
C107	C-CER,CHIP	2203-005682	SA
C108	C-CER,CHIP	2203-005682	SA
C109	C-CER,CHIP	2203-006423	SA
C110	C-CER,CHIP	2203-005719	SA
C111	C-CER,CHIP	2203-006423	SA
C112	C-CER,CHIP	2203-005682	SA
C113	C-CER,CHIP	2203-005682	SA
C114	C-CER,CHIP	2203-006423	SA
C115	C-CER,CHIP	2203-006379	SA
C116	C-CER,CHIP	2203-006423	SA
C117	C-CER,CHIP	2203-005806	SA
C119	C-CER,CHIP	2203-005808	SA
C120	C-CER,CHIP	2203-006556	SA
C121	C-CER,CHIP	2203-005682	SA
C122	C-CER,CHIP	2203-005682	SA
C123	C-CER,CHIP	2203-006556	SA
C124	C-CER,CHIP	2203-005682	SA
C125	C-CER,CHIP	2203-005808	SA
C126	C-CER,CHIP	2203-006423	SA
C127	C-CER,CHIP	2203-000725	SA
C128	C-CER,CHIP	2203-005552	SA
C129	C-CER,CHIP	2203-006318	SA
C130	C-CER,CHIP	2203-000836	SA
C132	C-CER,CHIP	2203-006423	SA
C133	C-CER,CHIP	2203-006423	SA
C134	C-CER,CHIP	2203-005682	SA
C135	C-CER,CHIP	2203-000438	SA
C137	C-CER,CHIP	2203-006423	SA
C138	C-CER,CHIP	2203-006194	SA
C139	C-CER,CHIP	2203-005719	SA
C140	C-CER,CHIP	2203-006399	SA
C141	C-CER,CHIP	2203-006194	SA
C142	C-CER,CHIP	2203-005682	SA
C143	C-CER,CHIP	2203-006838	SA
C144	C-CER,CHIP	2203-006423	SA
C145	C-CER,CHIP	2203-005503	SA
C146	C-CER,CHIP	2203-002443	SA
C147	C-CER,CHIP	2203-005234	SA
C148	C-CER,CHIP	2203-005729	SA
C149	C-CER,CHIP	2203-006194	SA
C150	C-CER,CHIP	2203-006194	SA

Design LOC	Discription	SEC Code	STATUS
C151	C-CER,CHIP	2203-005729	SA
C152	C-CER,CHIP	2203-006194	SA
C153	C-CER,CHIP	2203-000311	SA
C154	C-CER,CHIP	2203-000438	SA
C155	C-CER,CHIP	2203-005682	SA
C156	C-CER,CHIP	2203-006137	SA
C157	C-CER,CHIP	2203-002677	SA
C158	C-CER,CHIP	2203-006665	SA
C201	C-CER,CHIP	2203-006838	SA
C206	C-CER,CHIP	2203-005682	SA
C207	C-CER,CHIP	2203-005736	SA
C208	C-CER,CHIP	2203-005682	SA
C209	C-CER,CHIP	2203-005806	SA
C210	C-CER,CHIP	2203-005682	SA
C211	C-CER,CHIP	2203-006120	SA
C212	C-CER,CHIP	2203-006194	SA
C213	C-CER,CHIP	2203-005736	SA
C214	C-CER,CHIP	2203-006423	SA
C215	C-CER,CHIP	2203-000438	SA
C217	C-CER,CHIP	2203-000725	SA
C218	C-CER,CHIP	2203-006194	SA
C219	C-CER,CHIP	2203-006121	SA
C223	C-CER,CHIP	2203-000940	SA
C224	C-CER,CHIP	2203-005682	SA
C225	C-CER,CHIP	2203-006556	SA
C226	C-CER,CHIP	2203-005736	SA
C227	C-CER,CHIP	2203-006423	SA
C228	C-CER,CHIP	2203-006423	SA
C229	C-CER,CHIP	2203-006305	SA
C230	C-CER,CHIP	2203-006423	SA
C231	C-CER,CHIP	2203-006305	SA
C232	C-CER,CHIP	2203-006194	SA
C233	C-CER,CHIP	2203-006194	SA
C234	C-CER,CHIP	2203-006423	SA
C235	C-CER,CHIP	2203-005806	SA
C237	C-CER,CHIP	2203-000330	SA
C239	C-CER,CHIP	2203-000330	SA
C300	C-CER,CHIP	2203-006194	SA
C301	C-CER,CHIP	2203-006194	SA
C302	C-CER,CHIP	2203-006194	SA
C303	C-CER,CHIP	2203-006194	SA
C304	C-CER,CHIP	2203-005806	SA
C305	C-CER,CHIP	2203-006194	SA
C306	C-CER,CHIP	2203-006194	SA
C307	C-CER,CHIP	2203-005806	SA
C308	C-CER,CHIP	2203-005806	SA
C309	C-CER,CHIP	2203-006562	SA
C310	C-CER,CHIP	2203-006423	SA
C311	C-CER,CHIP	2203-006423	SA
C312	C-CER,CHIP	2203-006423	SA
C313	C-CER,CHIP	2203-006423	SA
C314	C-CER,CHIP	2203-006423	SA
C315	C-CER,CHIP	2203-006423	SA

Design LOC	Discription	SEC Code	STATUS
C316	C-CER,CHIP	2203-006423	SA
C317	C-CER,CHIP	2203-006423	SA
C318	C-CER,CHIP	2203-006423	SA
C319	C-CER,CHIP	2203-006423	SA
C320	C-CER,CHIP	2203-006562	SA
C321	C-CER,CHIP	2203-006423	SA
C322	C-CER,CHIP	2203-006423	SA
C323	C-CER,CHIP	2203-006423	SA
C324	C-CER,CHIP	2203-006423	SA
C325	C-CER,CHIP	2203-006423	SA
C326	C-CER,CHIP	2203-006423	SA
C327	C-CER,CHIP	2203-006423	SA
C328	C-CER,CHIP	2203-006423	SA
C329	C-CER,CHIP	2203-006562	SA
C330	C-CER,CHIP	2203-006423	SA
C331	C-CER,CHIP	2203-006194	SA
C332	C-CER,CHIP	2203-006194	SA
C333	C-CER,CHIP	2203-005725	SA
C334	C-CER,CHIP	2203-005725	SA
C335	C-CER,CHIP	2203-006668	SA
C336	C-CER,CHIP	2203-006423	SA
C337	C-CER,CHIP	2203-006423	SA
C338	C-CER,CHIP	2203-005736	SA
C339	C-CER,CHIP	2203-005682	SA
C340	C-CER,CHIP	2203-005480	SA
C341	C-CER,CHIP	2203-006194	SA
C342	C-CER,CHIP	2203-006423	SA
C344	C-CER,CHIP	2203-000386	SA
C345	C-CER,CHIP	2203-005719	SA
C346	C-CER,CHIP	2203-006423	SA
C347	C-CER,CHIP	2203-005719	SA
C348	C-CER,CHIP	2203-006423	SA
C349	C-CER,CHIP	2203-005719	SA
C350	C-CER,CHIP	2203-006617	SA
C351	C-CER,CHIP	2203-006423	SA
C352	C-CER,CHIP	2203-006423	SA
C353	C-CER,CHIP	2203-006617	SA
C354	C-CER,CHIP	2203-006423	SA
C400	C-CER,CHIP	2203-006562	SA
C401	C-CER,CHIP	2203-005719	SA
C402	C-CER,CHIP	2203-005719	SA
C403	C-CER,CHIP	2203-005806	SA
C404	C-CER,CHIP	2203-006194	SA
C405	C-CER,CHIP	2203-006423	SA
C406	C-CER,CHIP	2203-006423	SA
C407	C-CER,CHIP	2203-006423	SA
C408	C-CER,CHIP	2203-006194	SA
C409	C-CER,CHIP	2203-006838	SA
C410	C-CER,CHIP	2203-006423	SA
C411	C-CER,CHIP	2203-006423	SA
C414	C-CER,CHIP	2203-005682	SA
C415	C-CER,CHIP	2203-006423	SA
C416	C-CER,CHIP	2203-006423	SA

Design LOC	Discription	SEC Code	STATUS
C417	C-CER,CHIP	2203-006423	SA
C421	C-CER,CHIP	2203-005806	SA
C422	C-CER,CHIP	2203-006838	SA
C423	C-CER,CHIP	2203-006838	SA
C424	C-CER,CHIP	2203-006838	SA
C425	C-CER,CHIP	2203-006838	SA
C426	C-CER,CHIP	2203-000812	SA
C427	C-CER,CHIP	2203-006423	SA
C500	C-CER,CHIP	2203-006423	SA
C501	C-CER,CHIP	2203-006838	SA
C502	C-CER,CHIP	2203-006708	SA
C503	C-CER,CHIP	2203-005736	SA
C504	C-CER,CHIP	2203-000425	SA
C505	C-CER,CHIP	2203-006399	SA
C506	C-CER,CHIP	2203-006423	SA
C507	C-CER,CHIP	2203-005736	SA
C508	C-CER,CHIP	2203-000425	SA
C509	C-CER,CHIP	2203-006423	SA
C510	C-CER,CHIP	2203-006423	SA
C511	C-CER,CHIP	2203-006423	SA
C512	C-CER,CHIP	2203-006208	SA
C513	C-CER,CHIP	2203-006208	SA
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C658	C-CER,CHIP	2203-006399	SA
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C718	C-CER,CHIP	2203-006708	SA
C719	C-CER,CHIP	2203-005288	SA
C727	C-CER,CHIP	2203-005288	SA
CN500	CONNECTOR-CARD EDGE	3709-001452	SA
D400	DIODE-TVS	0406-001215	SA
D403	DIODE-ZENER	0403-001427	SA
D404	DIODE-ZENER	0403-001547	SA
D405	DIODE-TVS	0406-001215	SA
D406	DIODE-TVS	0406-001215	SA
D500	DIODE-SCHOTTKY	0404-001089	SA
D501	DIODE-SWITCHING	0401-001141	SA
D502	DIODE-TVS	0406-001215	SA
D503	DIODE-TVS	0406-001215	SA
D600	DIODE-TVS	0406-001215	SA
D703	DIODE-ARRAY	0407-001002	SA
D706	DIODE-SCHOTTKY	0404-001089	SA
D707	DIODE-TVS	0406-001215	SA
D708	DIODE-TVS	0406-001215	SA
D710	DIODE-TVS	0406-001197	SA
D711	DIODE-TVS	0406-001215	SA
DUF200	DUPLEXER-SAW	2910-000010	SA
F201	FILTER-SAW	2904-001665	SA
F202	FILTER-SAW	2904-001623	SA
F700	FILTER-EMI/ESD	2901-001326	SA

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F705	FILTER-EMI/ESD	2901-001326	SA
F706	FILTER-EMI/ESD	2901-001326	SA
F707	FILTER-EMI/ESD	2901-001326	SA
F708	FILTER-EMI/ESD	2901-001326	SA
F709	FILTER-EMI/ESD	2901-001326	SA
HDC700	HEADER-BOARD TO BOARD	3711-005930	SA
HDC701	HEADER-BOARD TO BOARD	3711-005962	SA
IFC400	SOCKET-INTERFACE	3710-002306	SA
L101	INDUCTOR-SMD	2703-002208	SA
L103	BEAD-SMD	3301-001756	SA
L104	INDUCTOR-SMD	2703-002870	SA
L105	INDUCTOR-SMD	2703-002918	SA
L106	INDUCTOR-SMD	2703-002870	SA
L107	INDUCTOR-SMD	2703-002870	SA
L108	INDUCTOR-SMD	2703-002918	SA
L109	INDUCTOR-SMD	2703-002906	SA
L110	INDUCTOR-SMD	2703-002955	SA
L111	INDUCTOR-SMD	2703-002906	SA
L112	INDUCTOR-SMD	2703-002203	SA
L113	BEAD-SMD	3301-001756	SA
L114	INDUCTOR-SMD	2703-002819	SA
L115	INDUCTOR-SMD	2703-002907	SNA
L116	INDUCTOR-SMD	2703-002870	SA
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L124	INDUCTOR-SMD	2703-002205	SA
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L209	INDUCTOR-SMD	2703-002176	SA
L210	INDUCTOR-SMD	2703-001729	SA
L211	INDUCTOR-SMD	2703-003003	SA
L212	INDUCTOR-SMD	2703-002367	SA
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L505	BEAD-SMD	3301-001534	SA
L506	BEAD-SMD	3301-001534	SA
L600	BEAD-SMD	3301-001756	SA
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L602	INDUCTOR-SMD	2703-001938	SA
L603	INDUCTOR-SMD	2703-001938	SA

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L702	BEAD-SMD	3301-001534	SA
L703	BEAD-SMD	3301-001534	SA
L704	BEAD-SMD	3301-001534	SA
L705	BEAD-SMD	3301-001534	SA
LED700	LED	0601-002053	SA
LED701	LED	0601-002053	SA
LED702	LED	0601-002053	SA
LED703	LED	0601-002053	SA
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LED705	LED	0601-002053	SA
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LED708	LED	0601-002053	SA
LED709	LED	0601-002053	SA
LED710	LED	0601-002053	SA
LED711	LED	0601-002053	SA
OSC300	RESONATOR-CERAMIC	2802-001182	SA
OSC500	CRYSTAL-SMD	2801-004339	SA
PAM100	IC-POWER AMP	1201-002218	SA
PAM200	IC-POWER AMP	1201-002325	SA
Q200	TR-DIGITAL	0504-001151	SA
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R103	R-CHIP	2007-008419	SA
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R105	R-CHIP	2007-008419	SA
R106	R-CHIP	2007-008531	SA
R107	R-CHIP	2007-007316	SA
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R109	R-CHIP	2007-000172	SA
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R126	R-CHIP	2007-008047	SA
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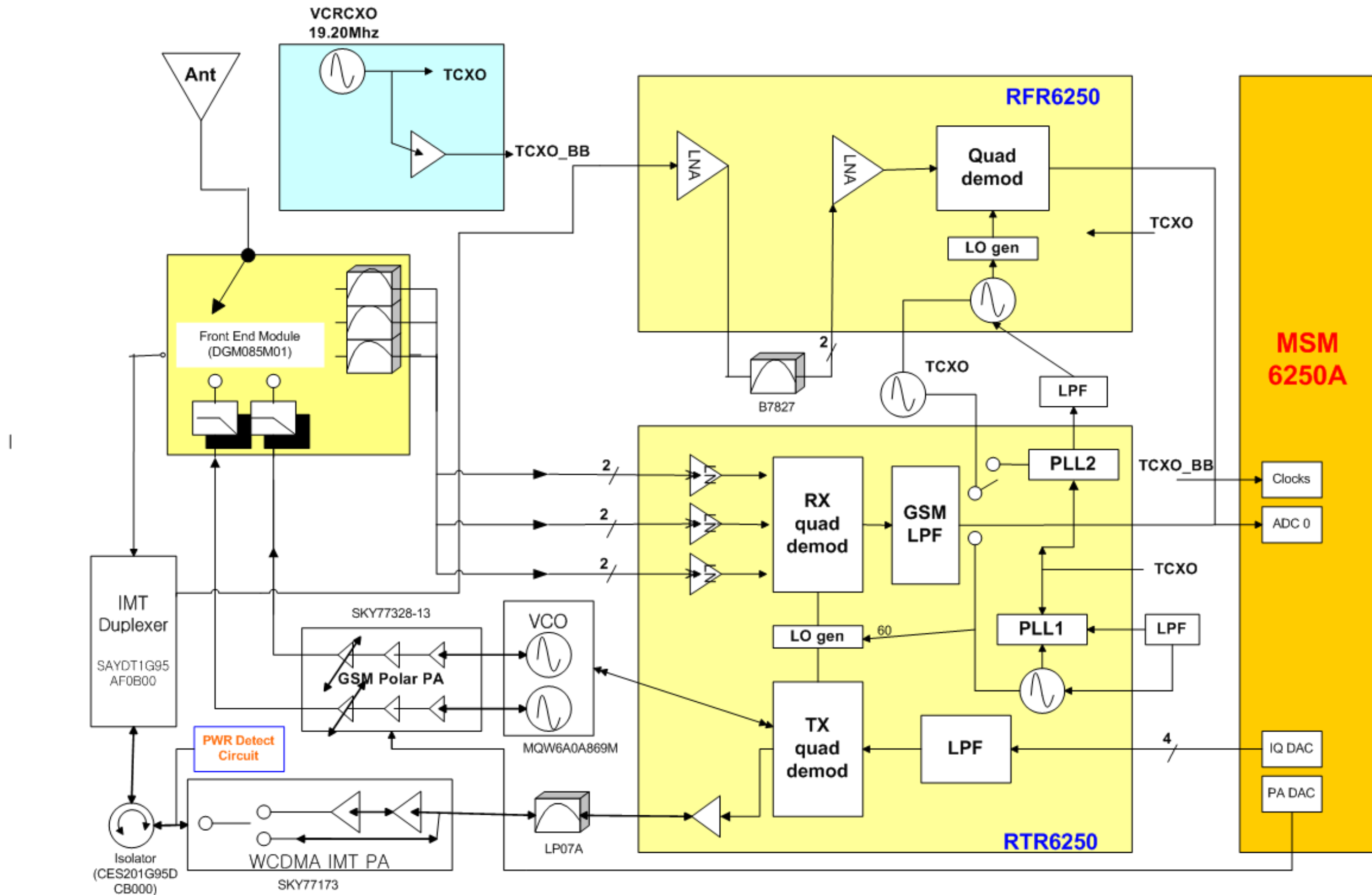
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R303	R-CHIP	2007-007135	SA
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R313	R-CHIP	2007-008516	SA
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R322	R-CHIP	2007-001298	SA
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Design LOC	Discription	SEC Code	STATUS
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R712	R-CHIP	2007-008055	SA
RFS100	CONNECTOR-COAXIAL	3705-001358	SA
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TA343	C-TA,CHIP	2404-001402	SA
TA412	C-TA,CHIP	2404-001381	SA
TA413	C-TA,CHIP	2404-001381	SA
TA418	C-TA,CHIP	2404-001411	SA
TA419	C-TA,CHIP	2404-001381	SA
TA420	C-TA,CHIP	2404-001381	SA
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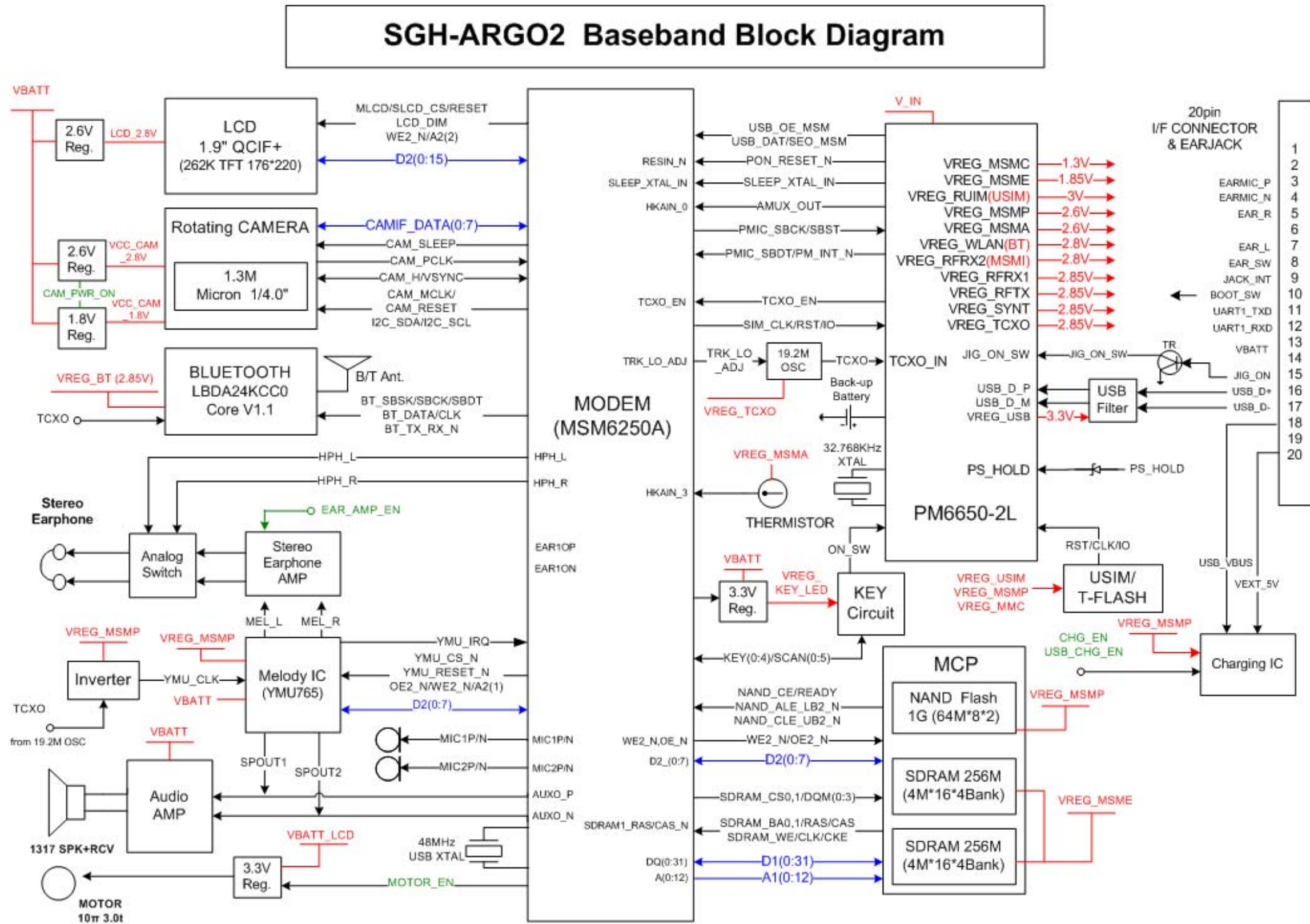
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TA643	C-TA,CHIP	2404-001381	SA
TA705	C-TA,CHIP	2404-001381	SA
TCX200	OSCILLATOR-VCTCXO	2809-001312	SA
TH300	THERMISTOR-NTC	1404-001224	SA
U100	DUPLEXER-FEM	2911-000045	SA
U102	IC-TRANSCEIVER	1205-002645	SA
U201	IC-RECEIVER	1205-002781	SA
U300	IC-SWITCH	1205-002784	SA
U302	IC-HALL EFFECT S/W	1009-001020	SA
U400	IC-ANALOG MULTIPLEX	1001-001349	SA
U401	IC-ANALOG MULTIPLEX	1001-001349	SA
U403	IC-SWITCH	1205-002784	SA
U404	BLUETOOTH MODULE	4709-001424	SA
U405	DIODE-ARRAY	0407-001038	SA
U500	IC-VOL. DETECTOR	1203-004045	SNA
U501	IC-POWER SUPERVISOR	1203-004101	SA
U502	IC-POSI.FIXED REG.	1203-003754	SA
U503	IC-BATTERY	1203-003823	SA
U504	IC-POSI.FIXED REG.	1203-003754	SA
U505	IC-POSI.FIXED REG.	1203-003791	SA
U506	IC-POSI.FIXED REG.	1203-003523	SA
U507	IC-POSI.FIXED REG.	1203-003523	SA
U600	IC-MELODY	1204-002138	SA
U601	IC-CMOS LOGIC	0801-000306	SA
U602	IC-ANALOG MULTIPLEX	1001-001358	SA
U603	IC-AUDIO AMP	1201-002304	SA
U604	IC-AUDIO AMP	1201-002195	SA
U605	IC-ANALOG MULTIPLEX	1001-001358	SA
U700	IC-ANALOG SWITCH	1001-001265	SA
U701	IC-ANALOG SWITCH	1001-001265	SA
U708	INDUCTOR-SMD	2703-002267	SA
U709	INDUCTOR-SMD	2703-002281	SA
U710	INDUCTOR-SMD	2703-001737	SA
UCP300	IC-MODEM	1205-002780	SA
UME400	IC-MCP	1108-000061	SA
VCO100	OSCILLATOR-VCO	2806-001380	SA

7. Block Diagrams

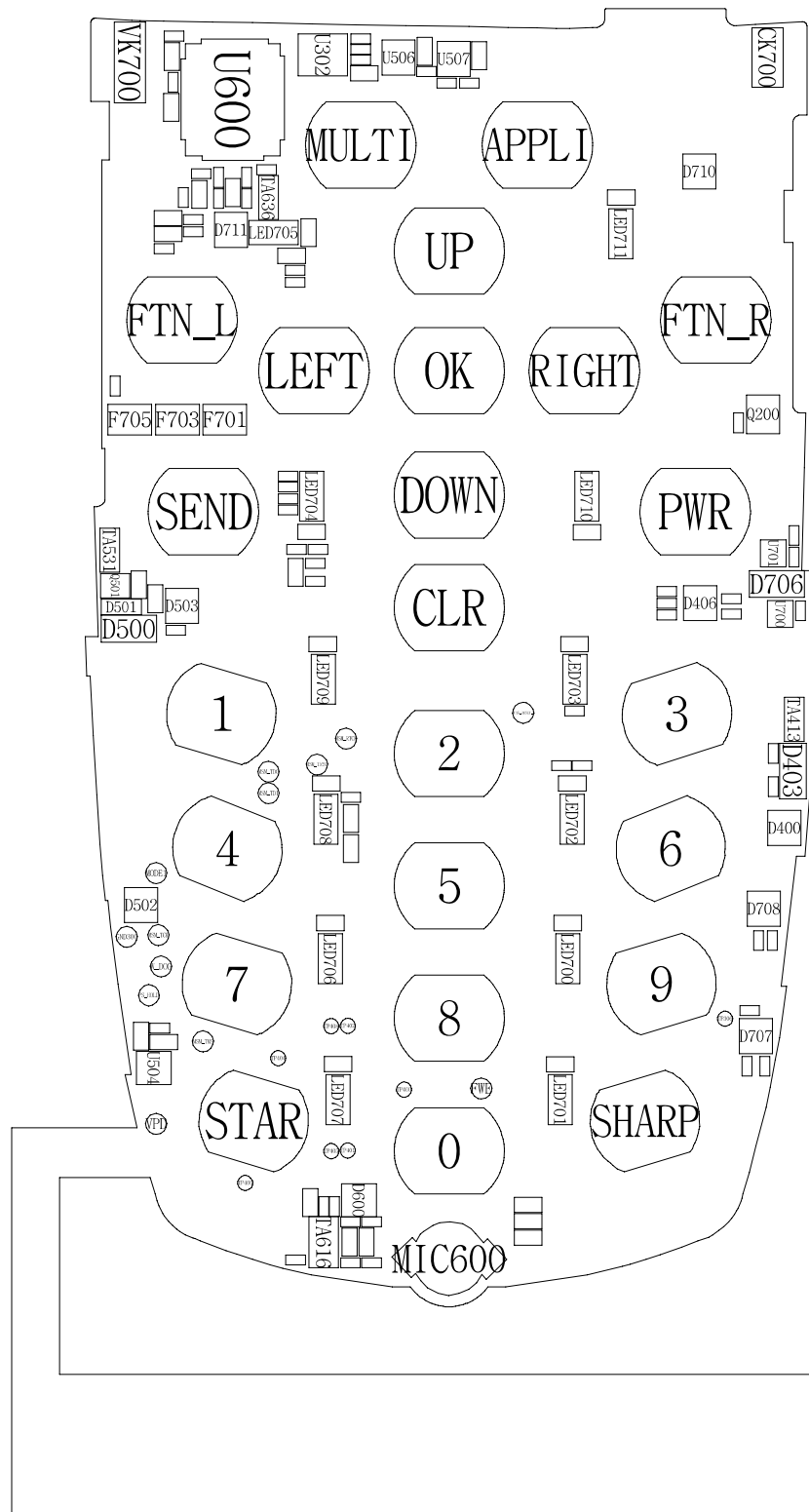
7-1. RF Block Diagram

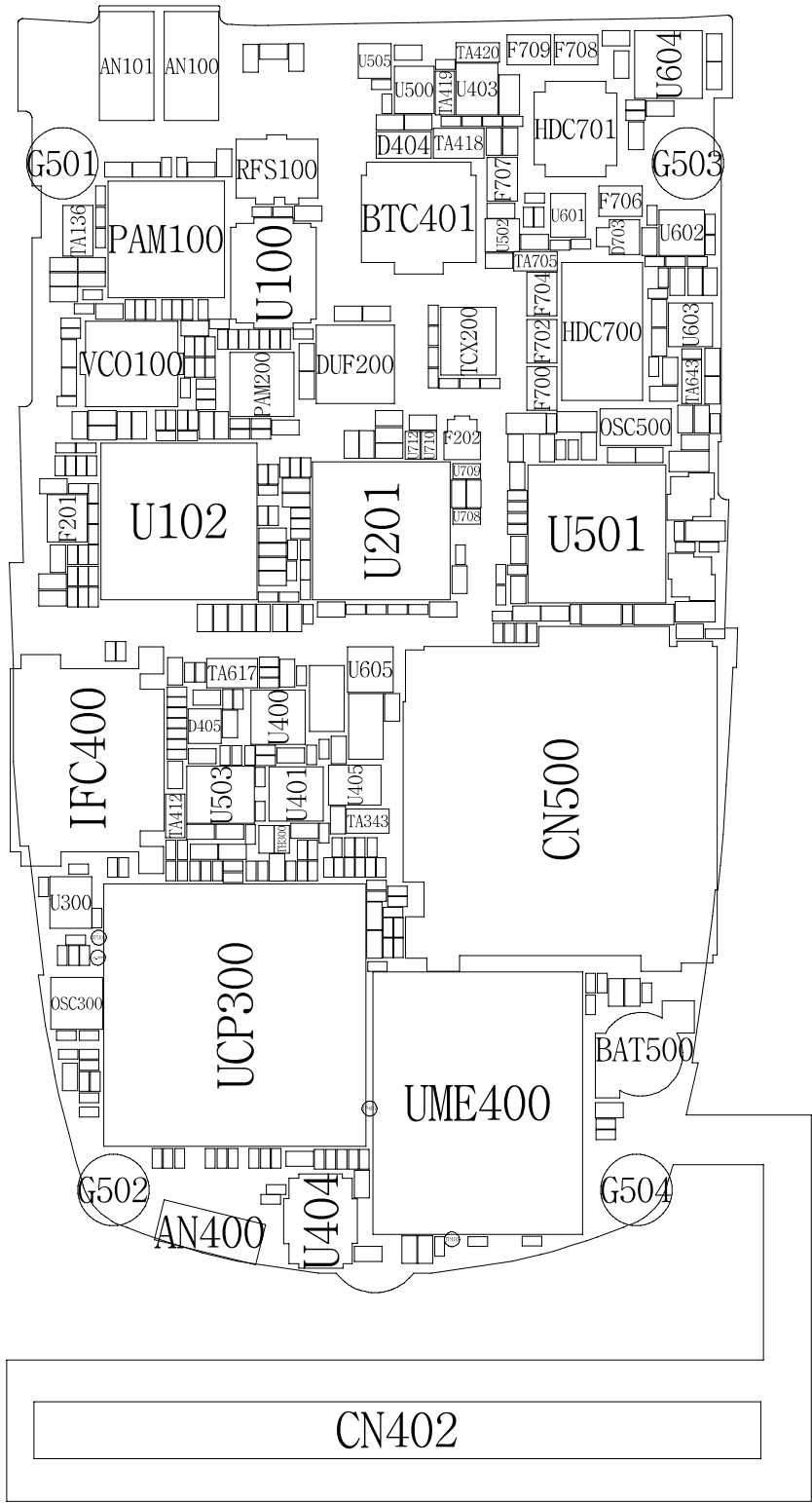


7-2. Baseband Block Diagram



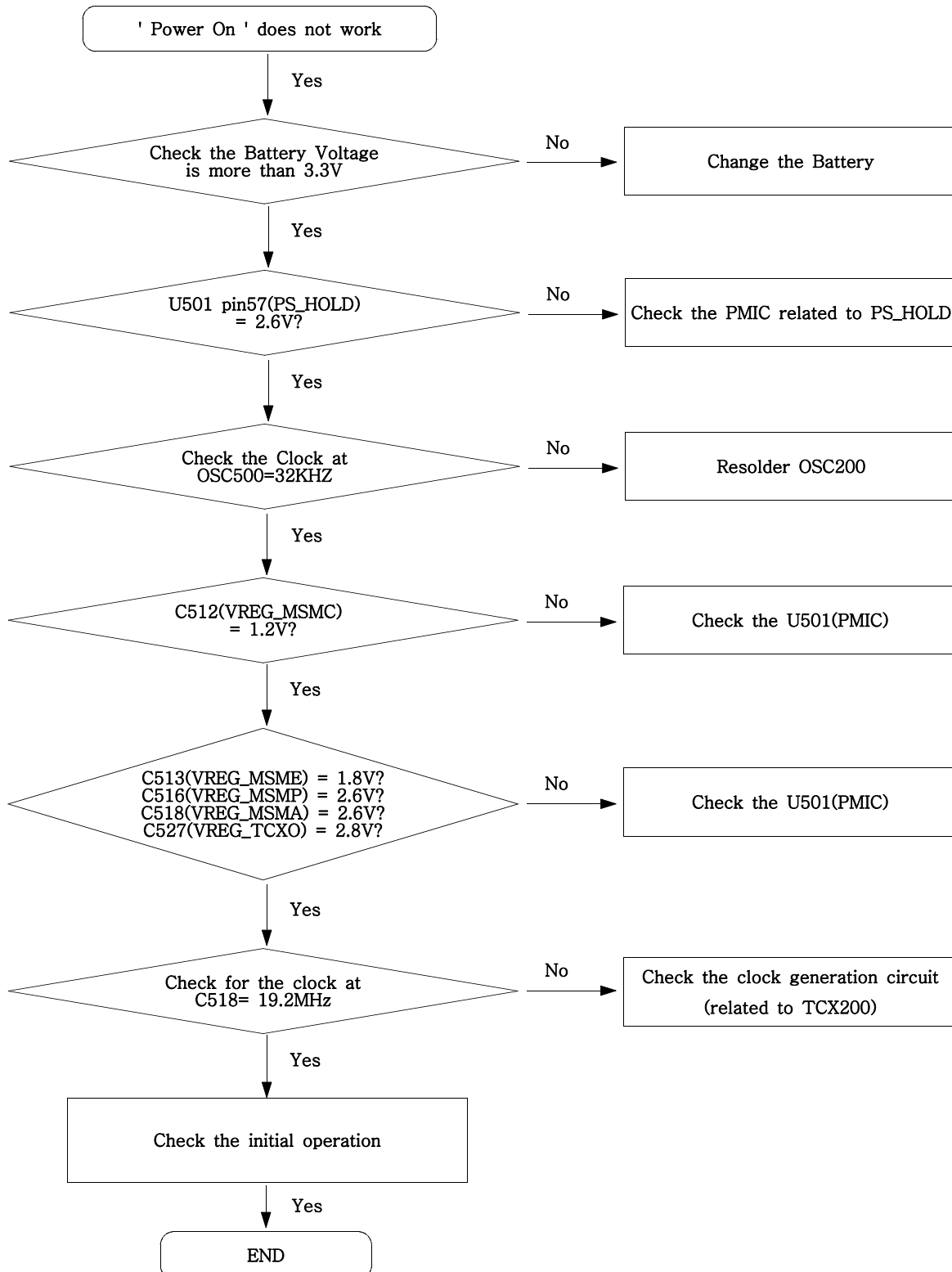
8. PCB Diagrams

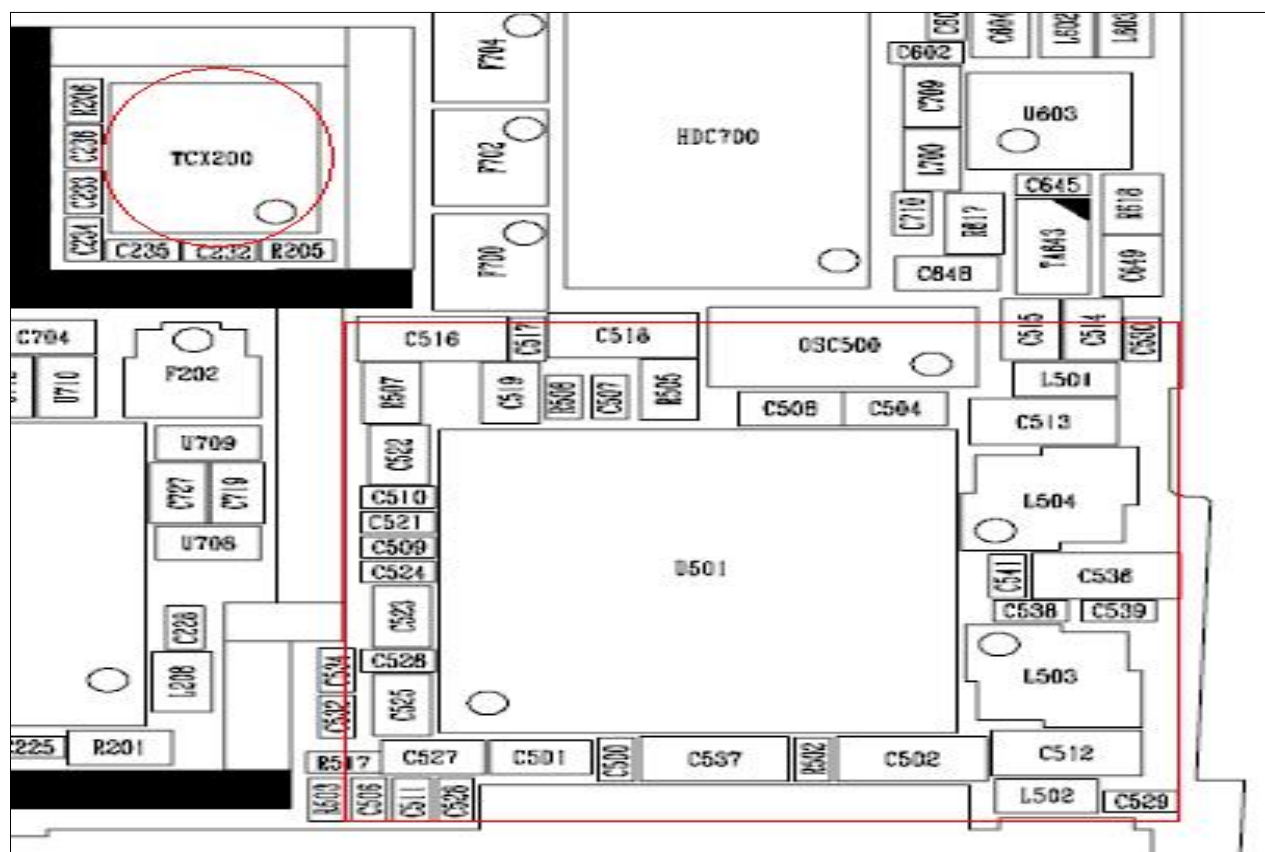




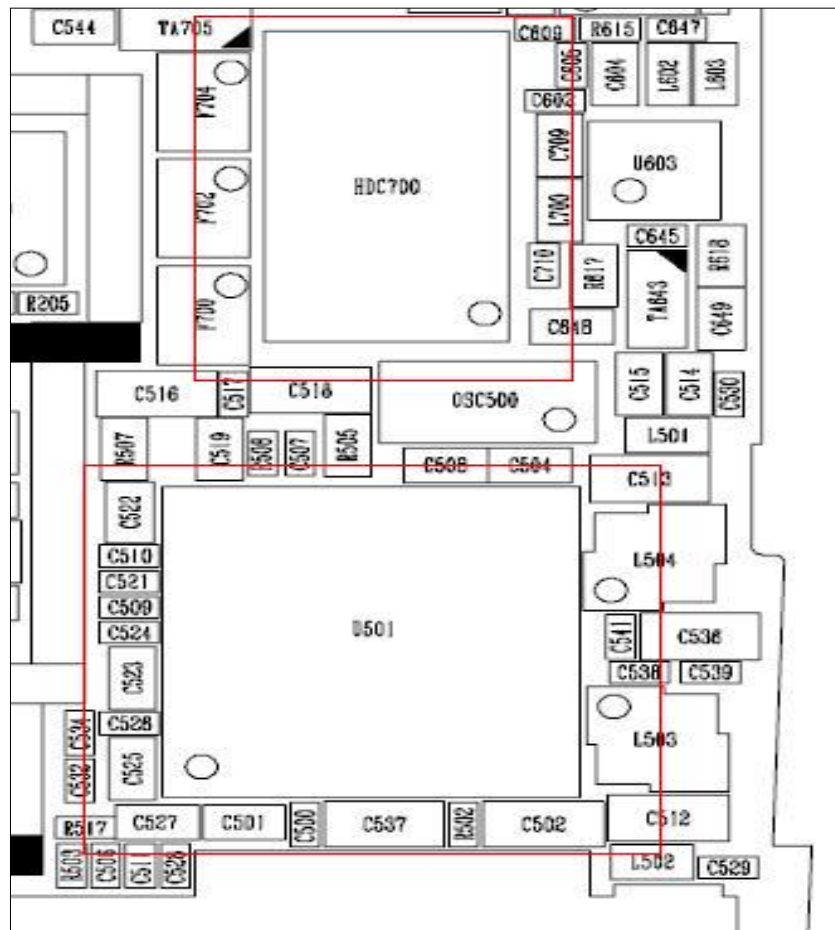
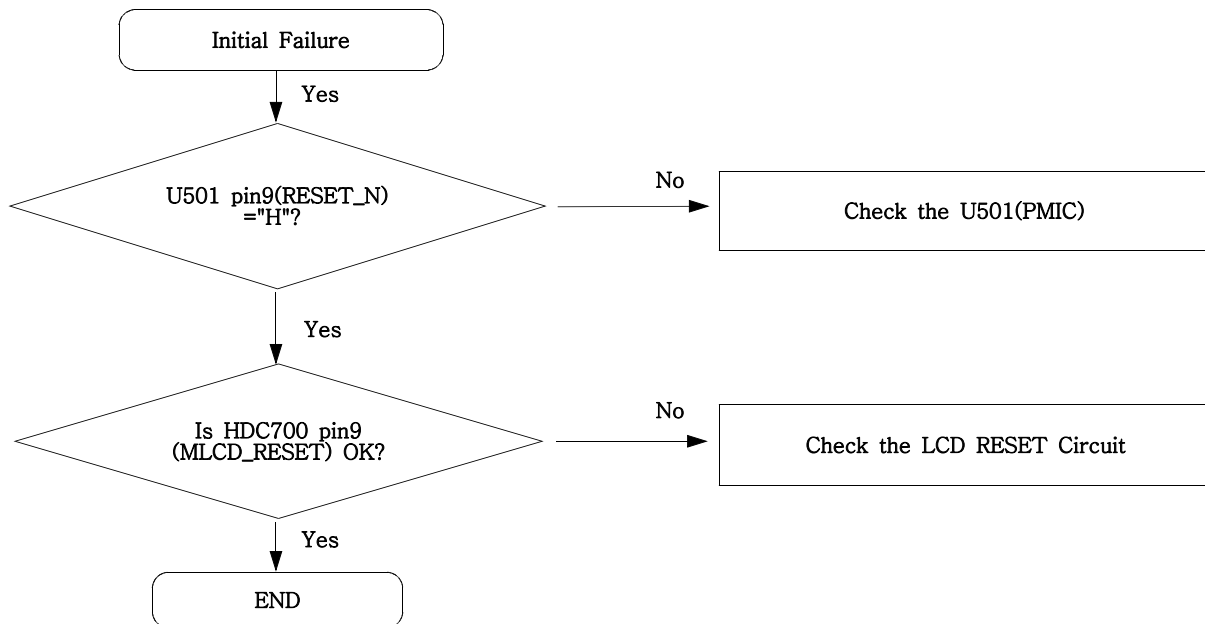
9. Flow Chart of Troubleshooting

9-1. Power On

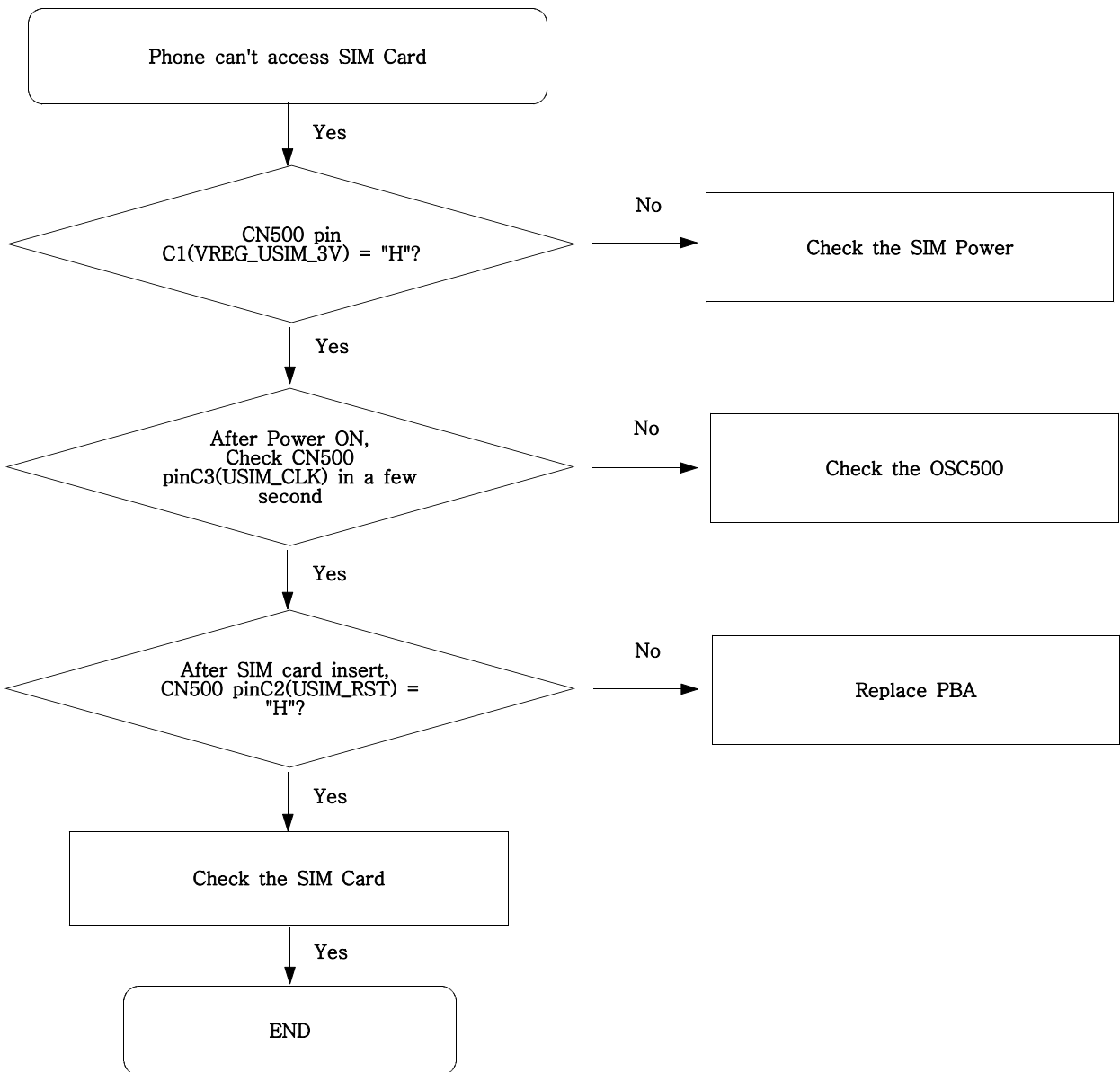




9-2. Initial

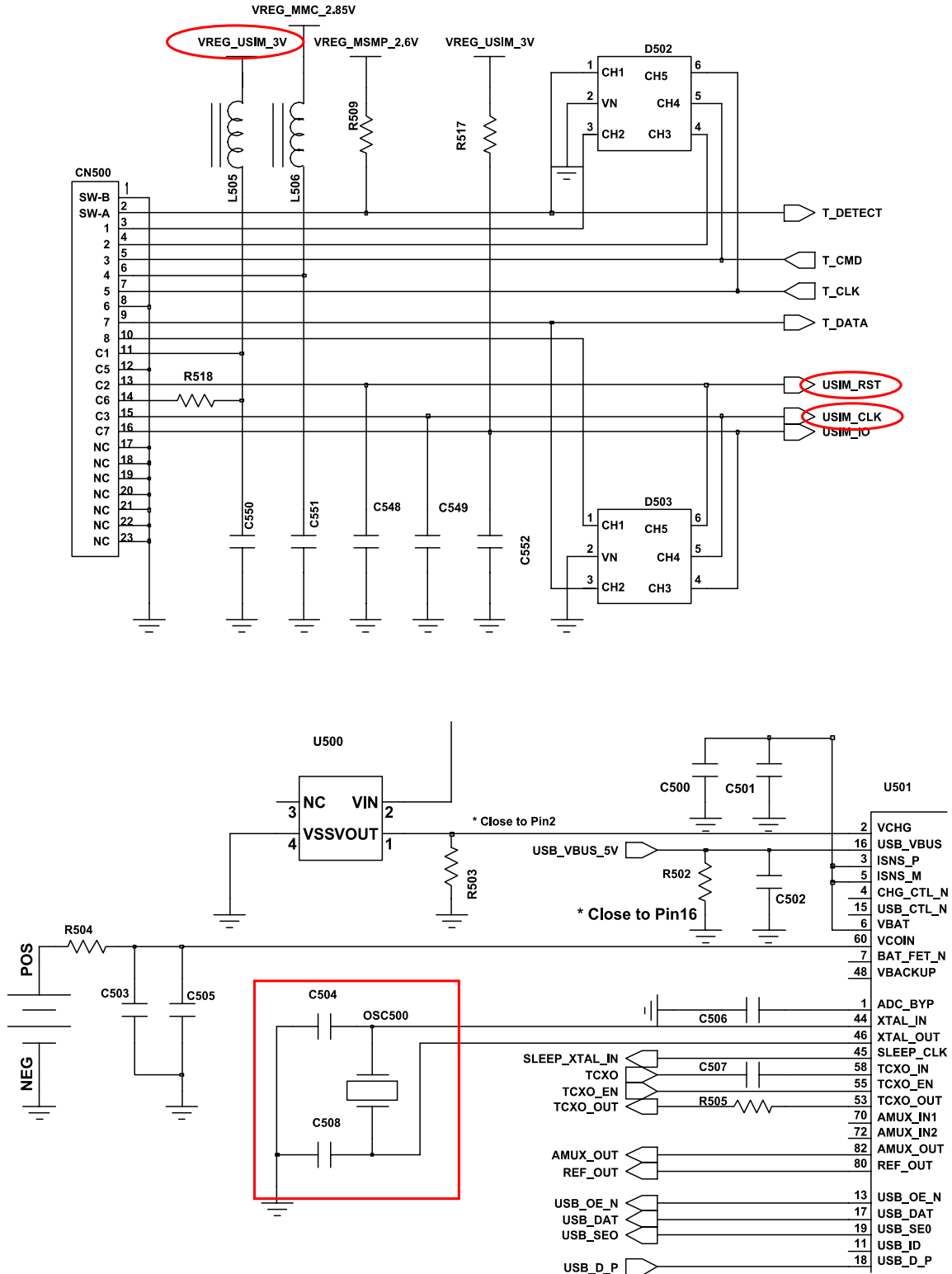


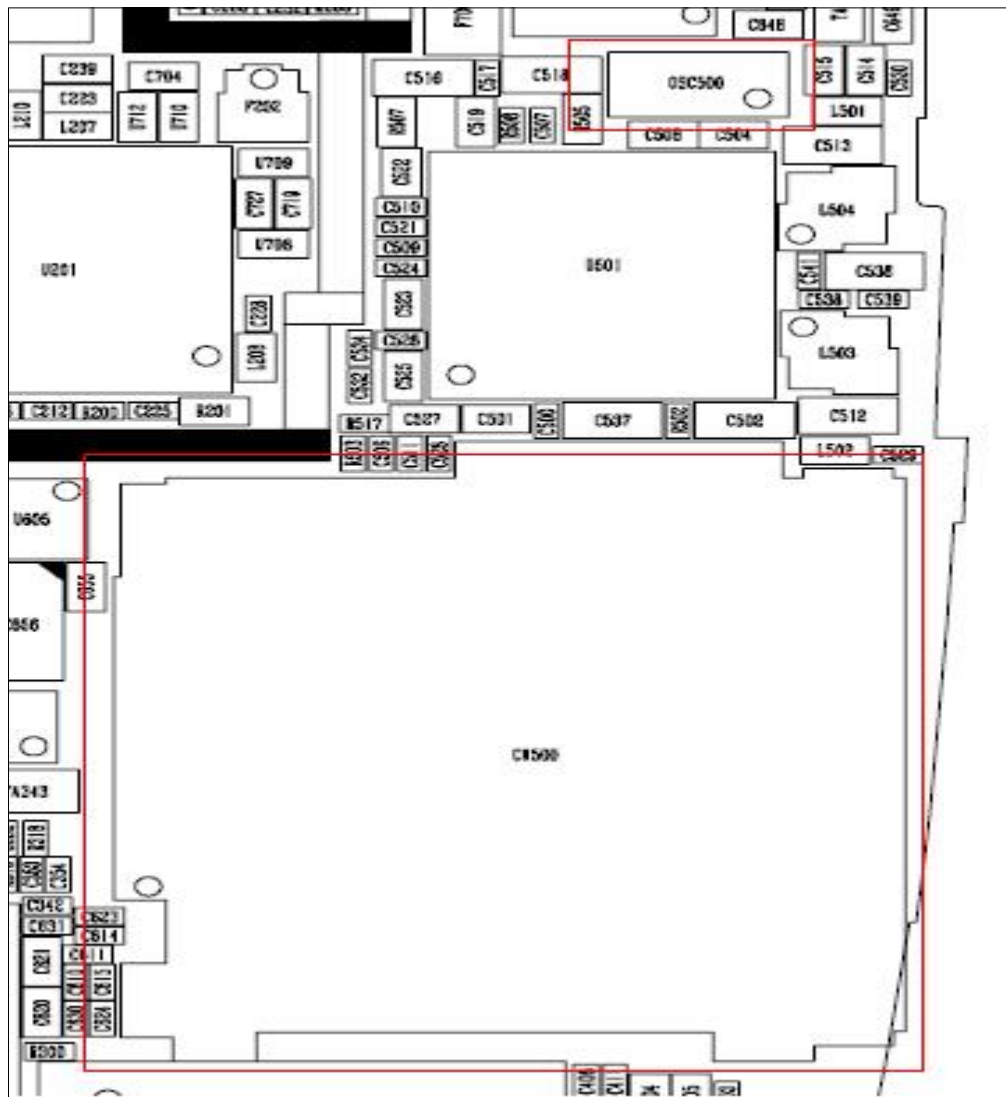
9-3. SIM Part



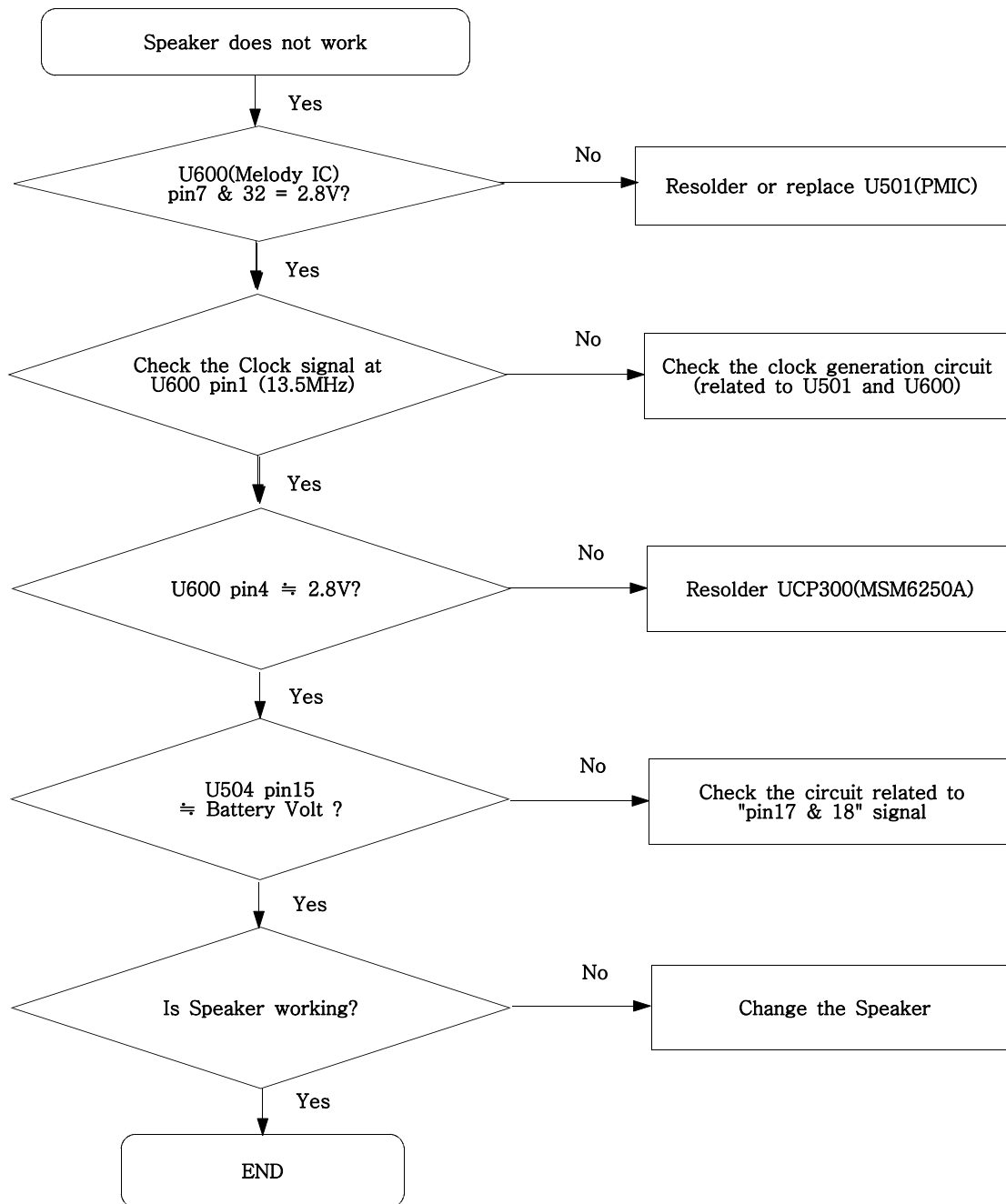
SIM

< USIM / T-Flash Connector >

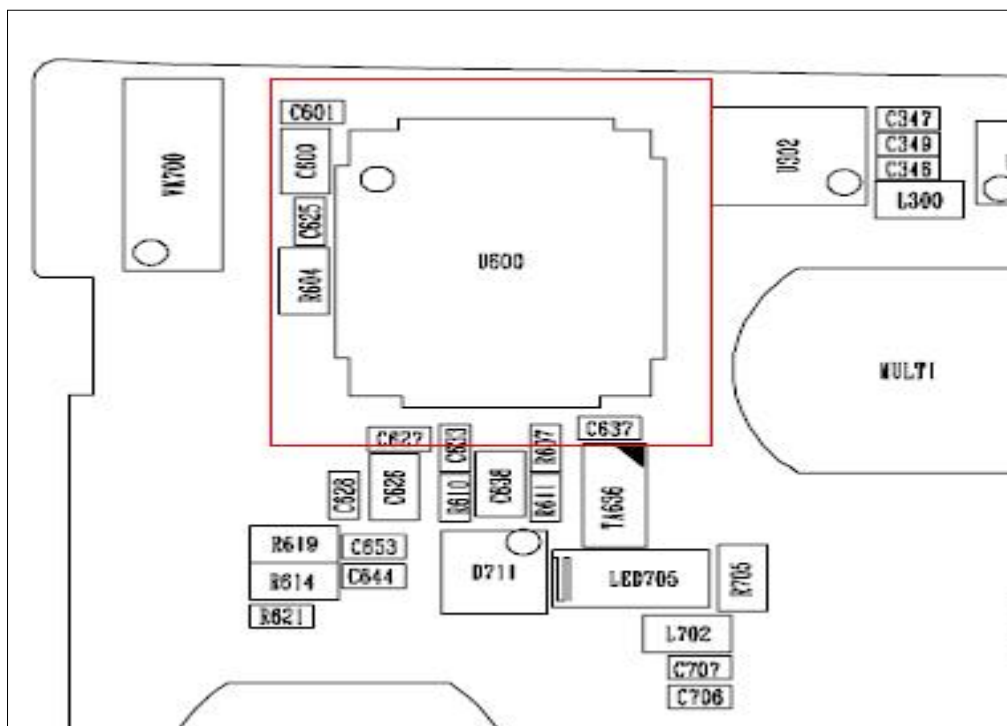
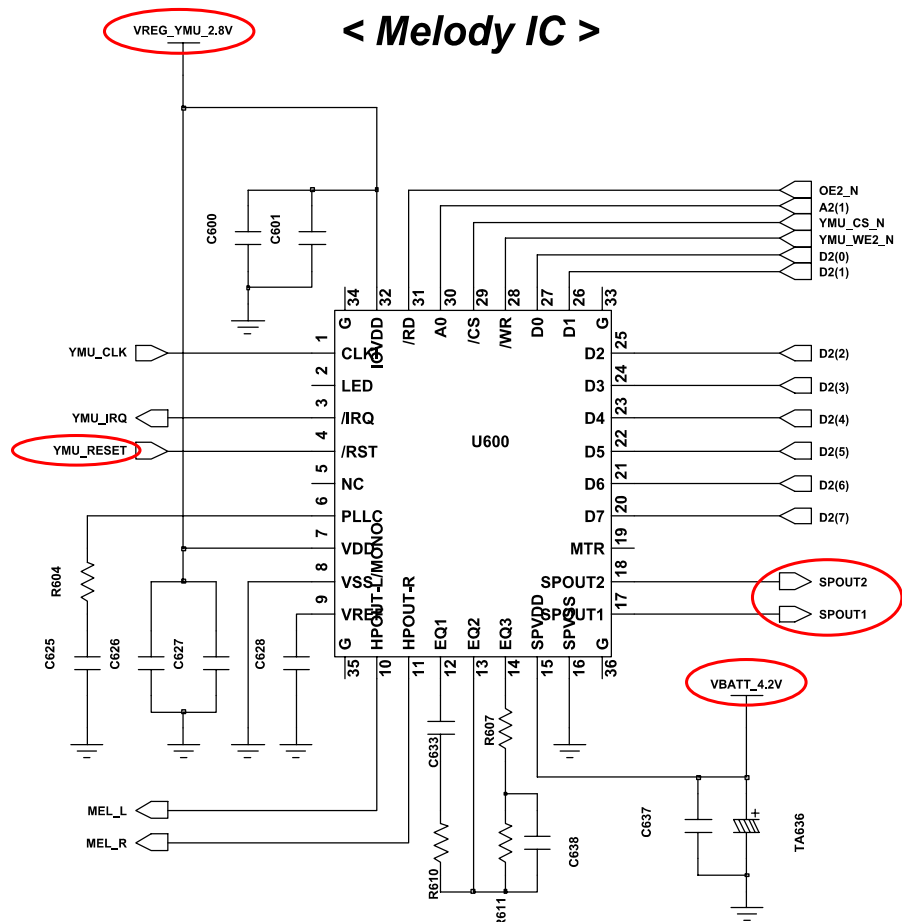




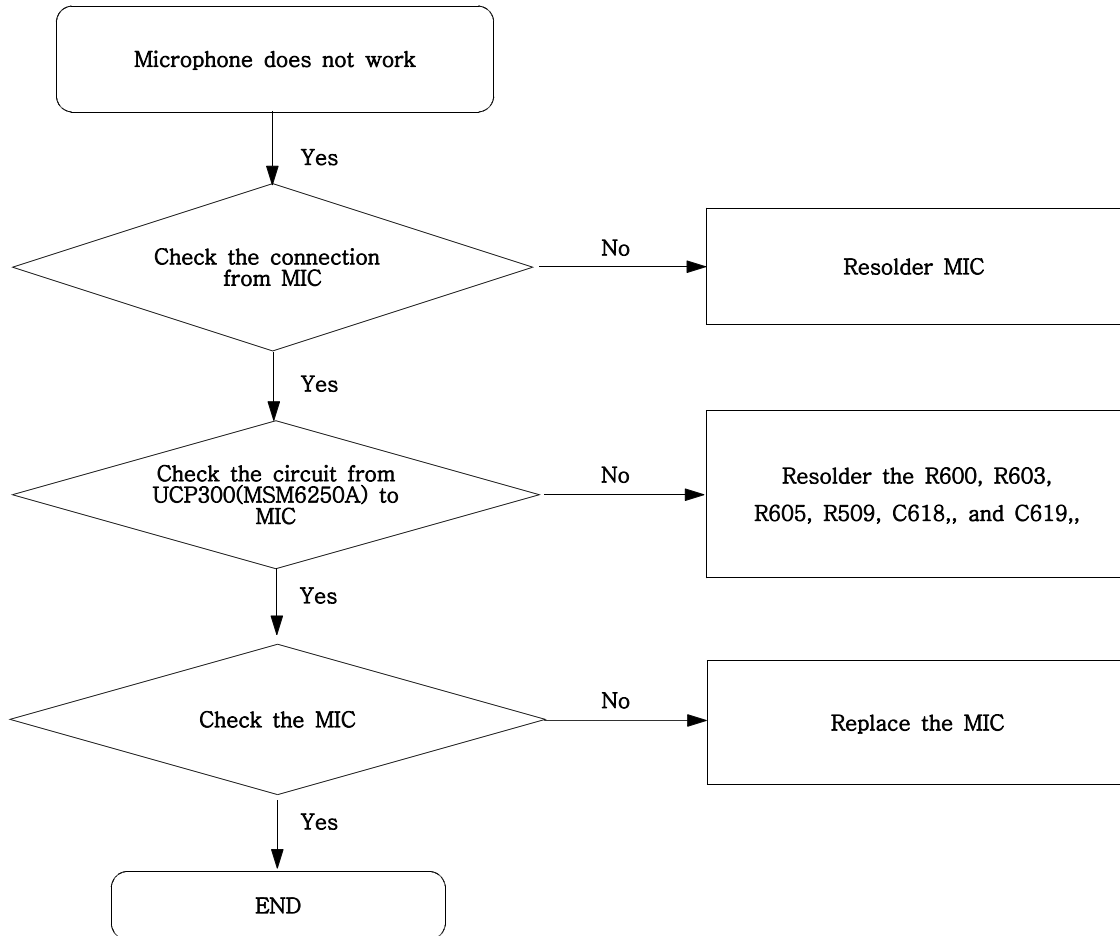
9-4. Speaker Part(Melody)



Speaker

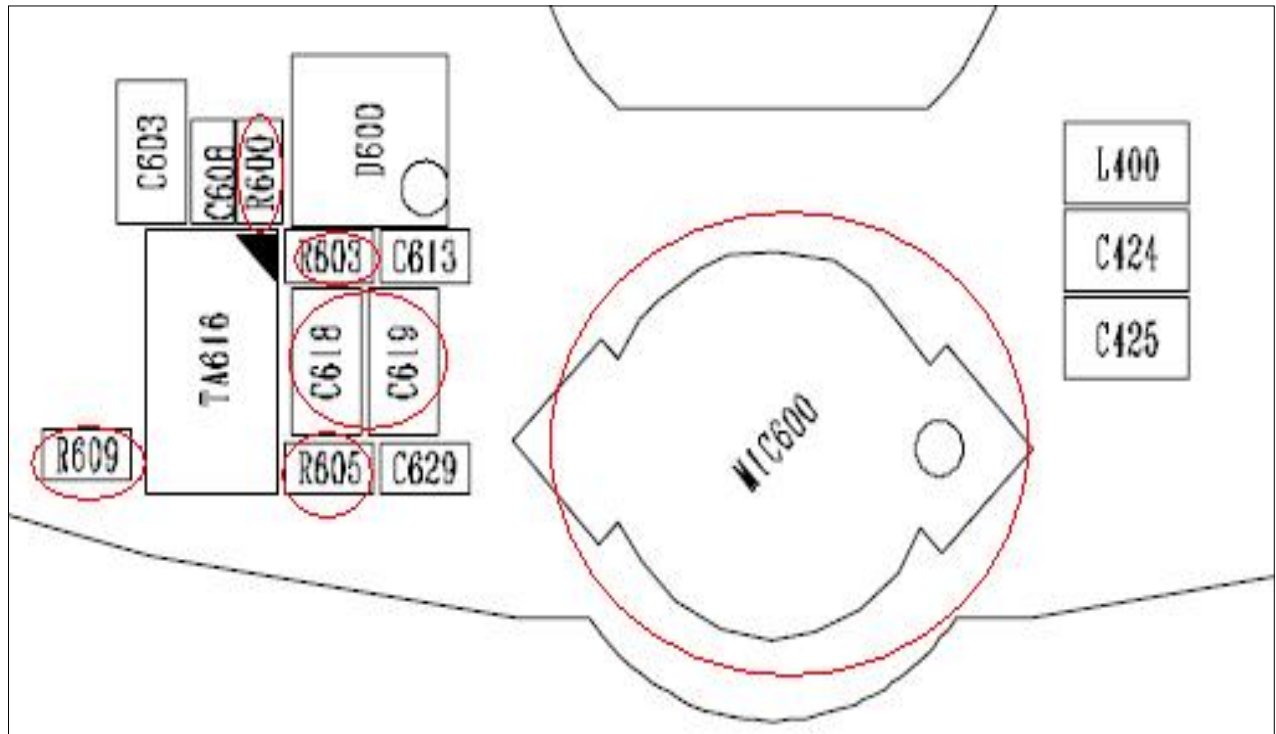
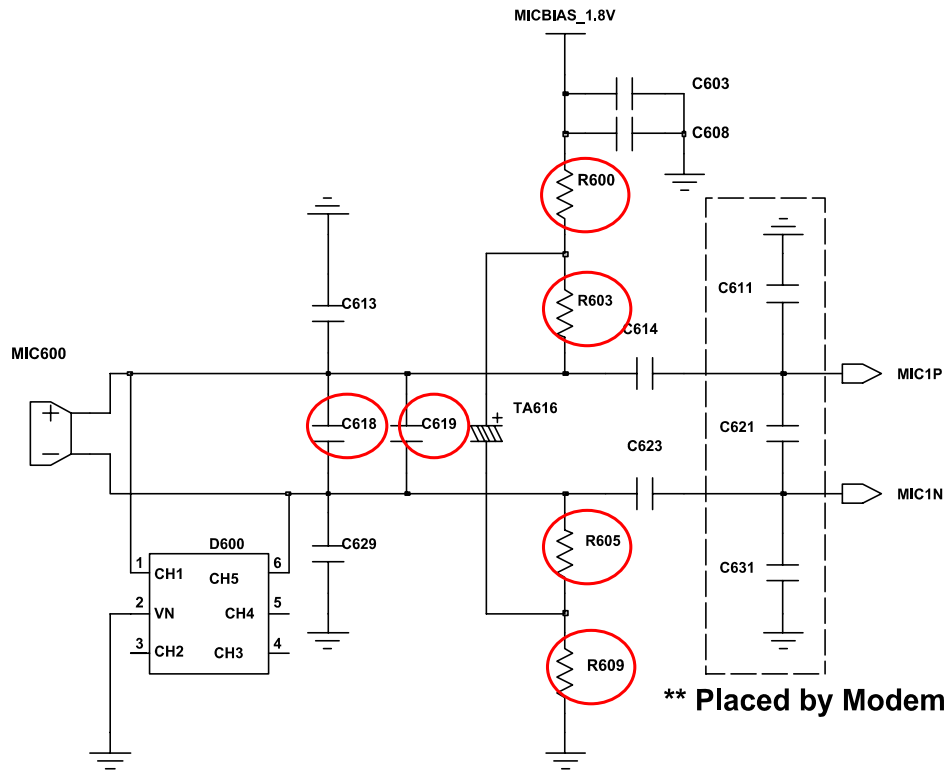


9-5. Microphone Part

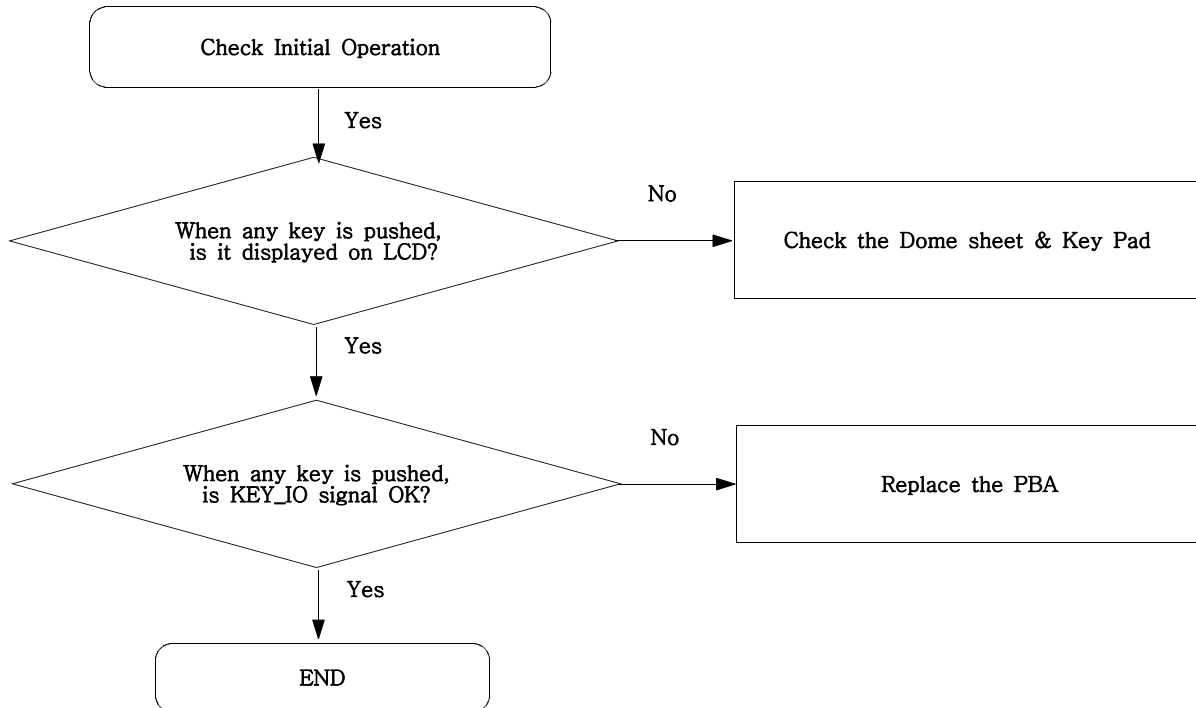


Microphone

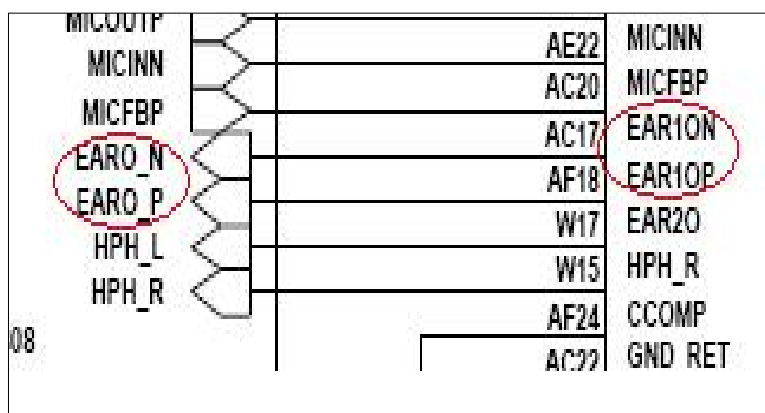
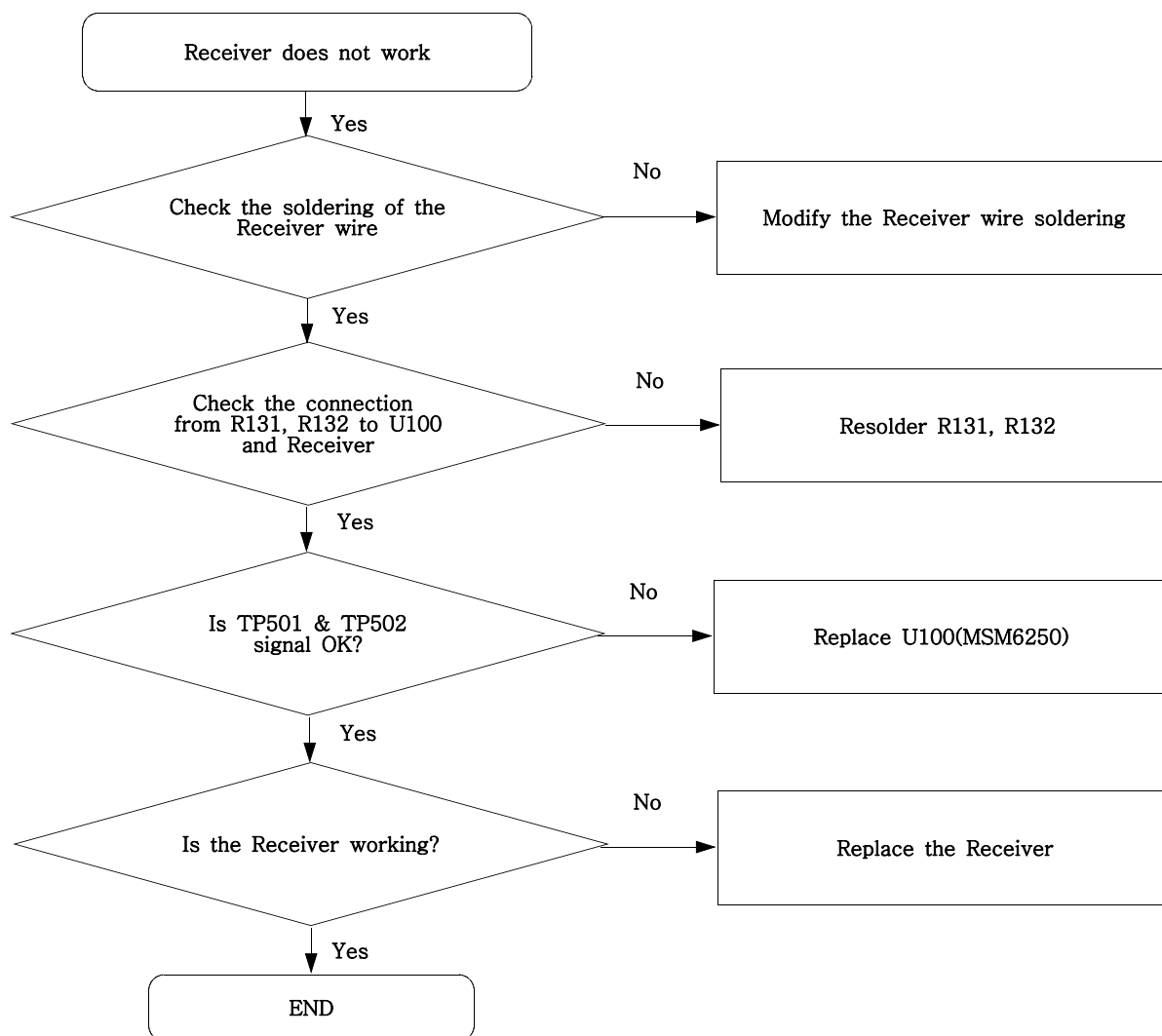
< Phone Mic Path >



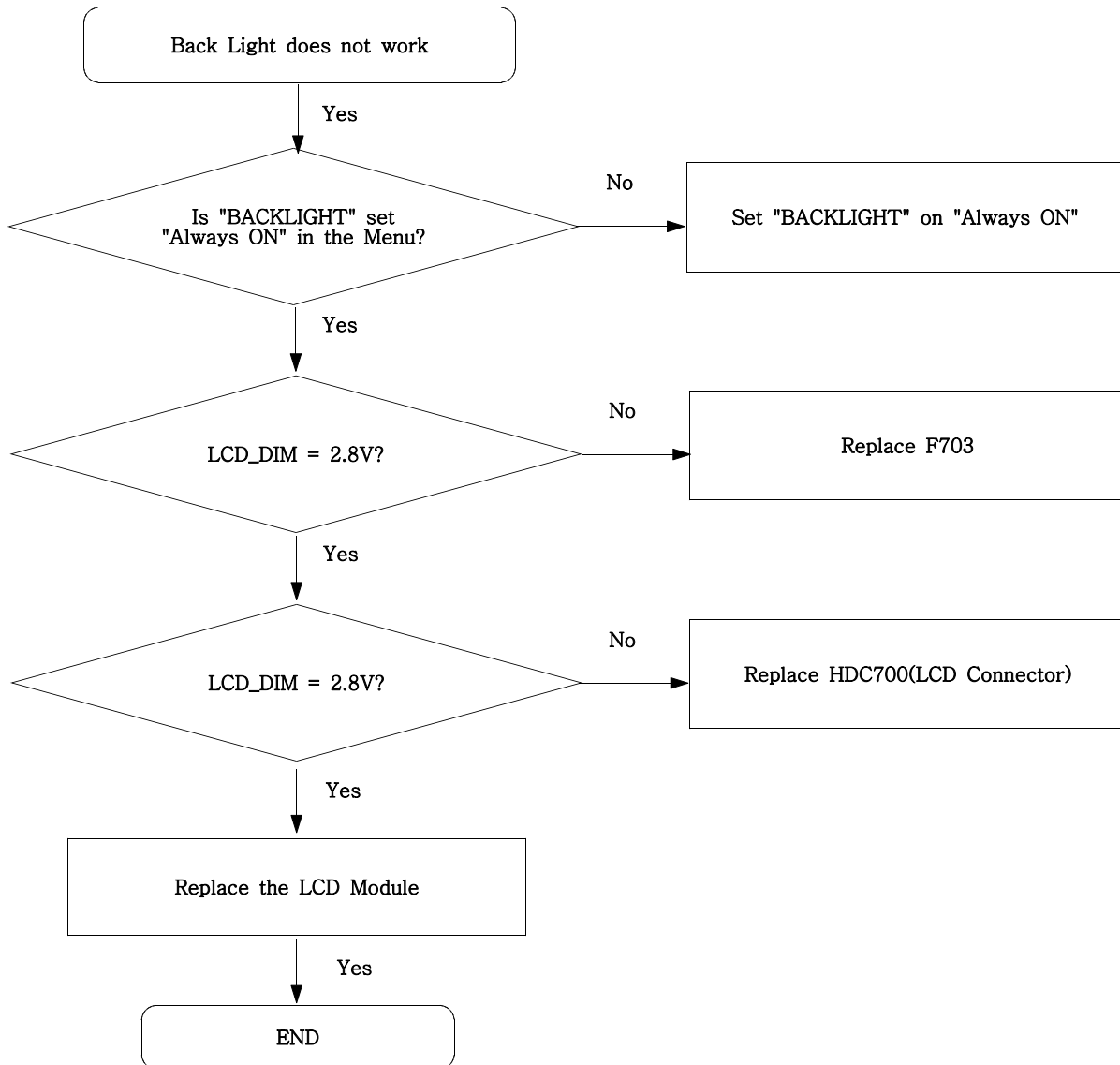
9-6. Key Data Input



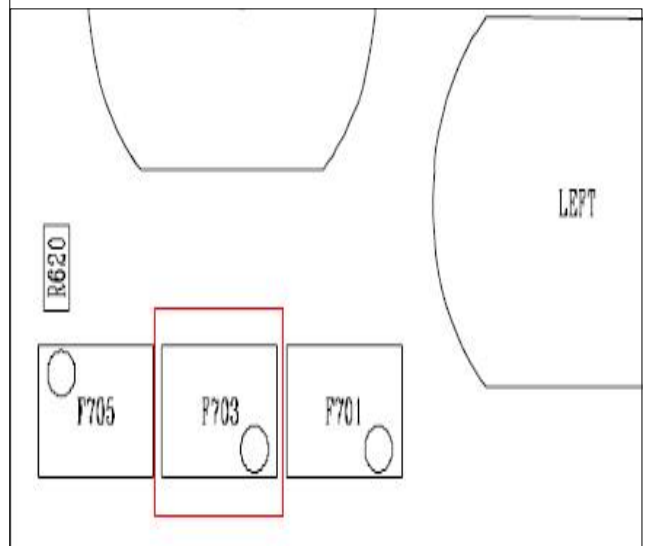
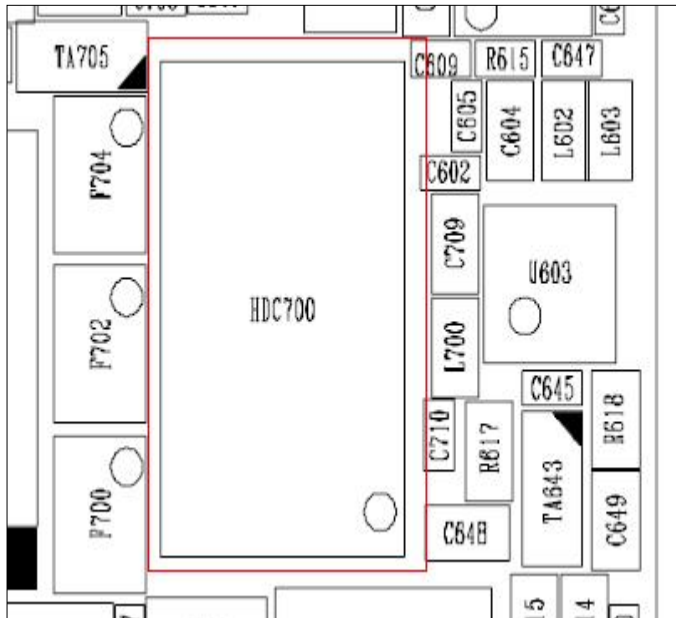
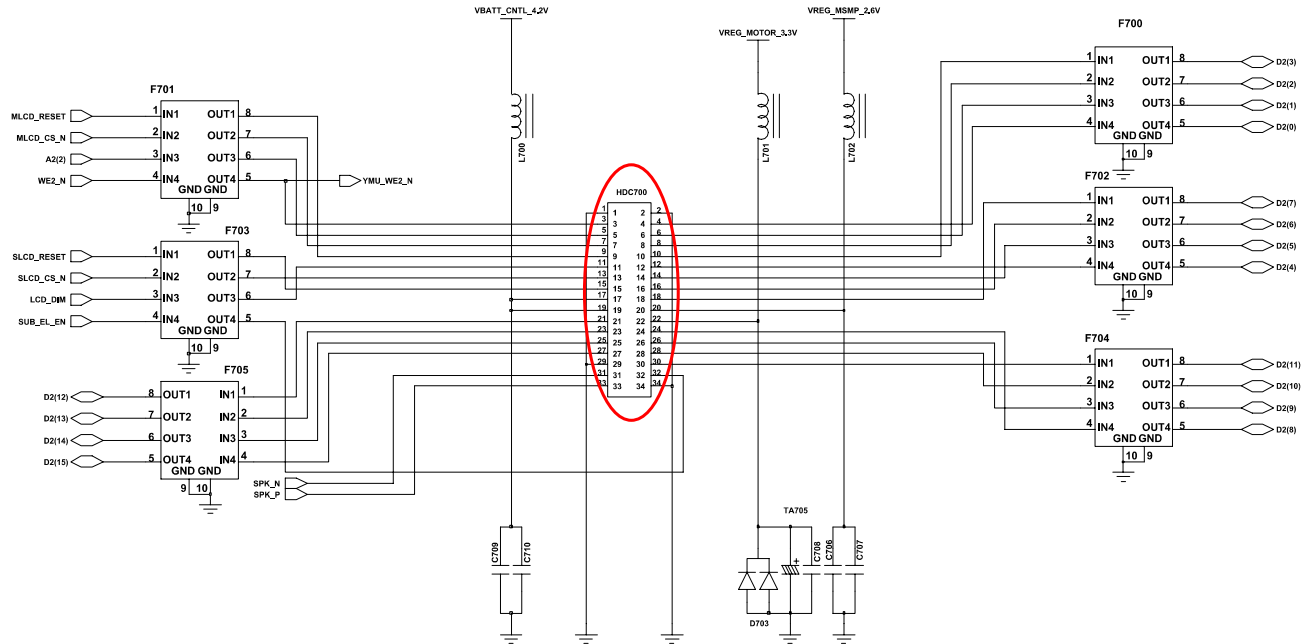
9-7. Receiver Part



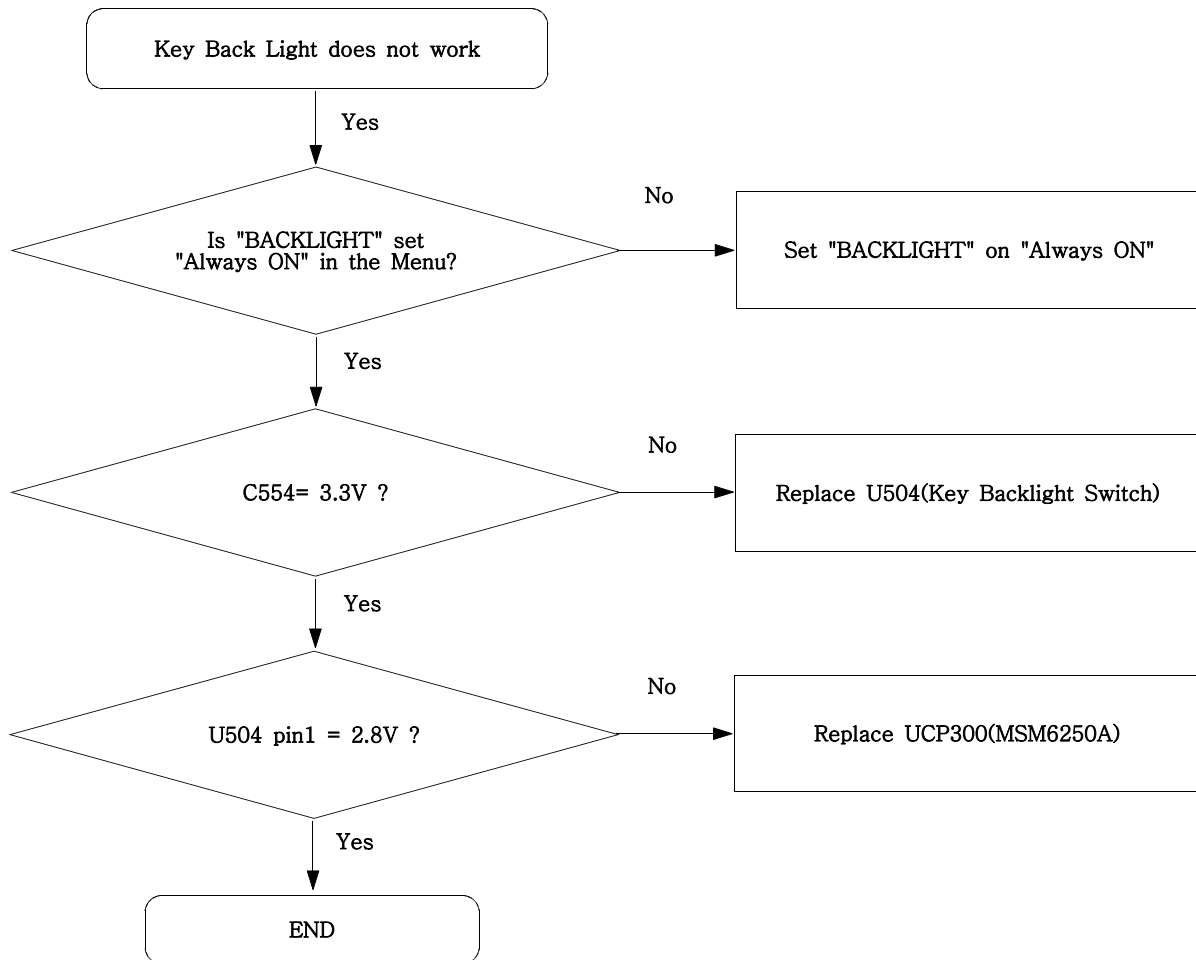
9-8. Back Light



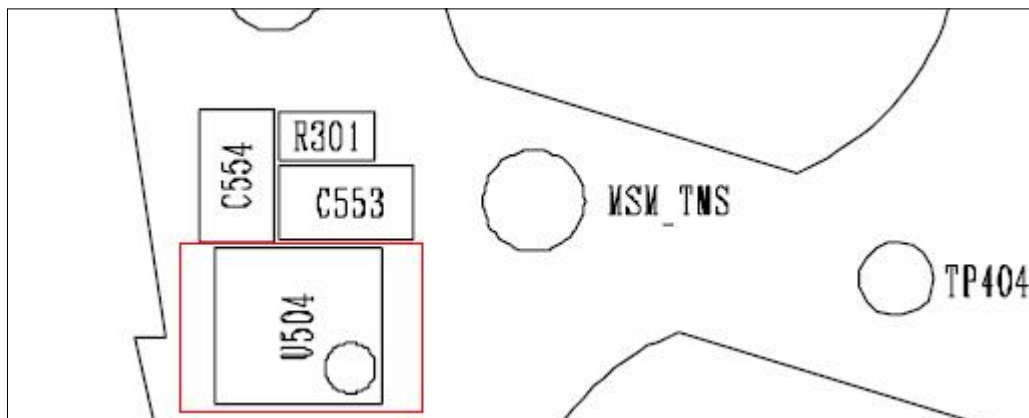
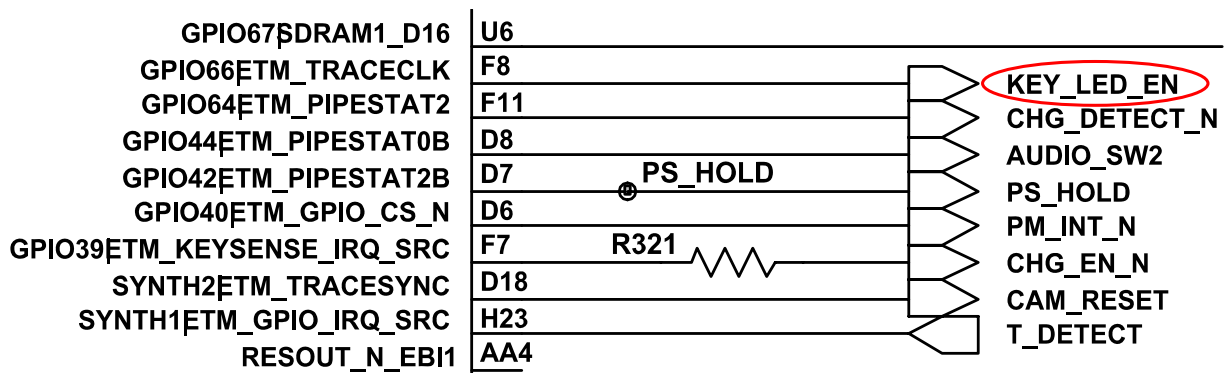
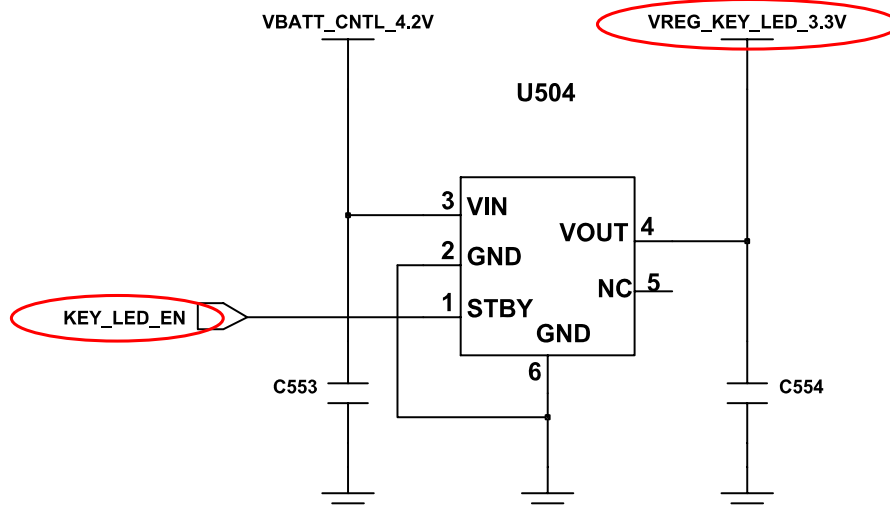
< LCD Connector >



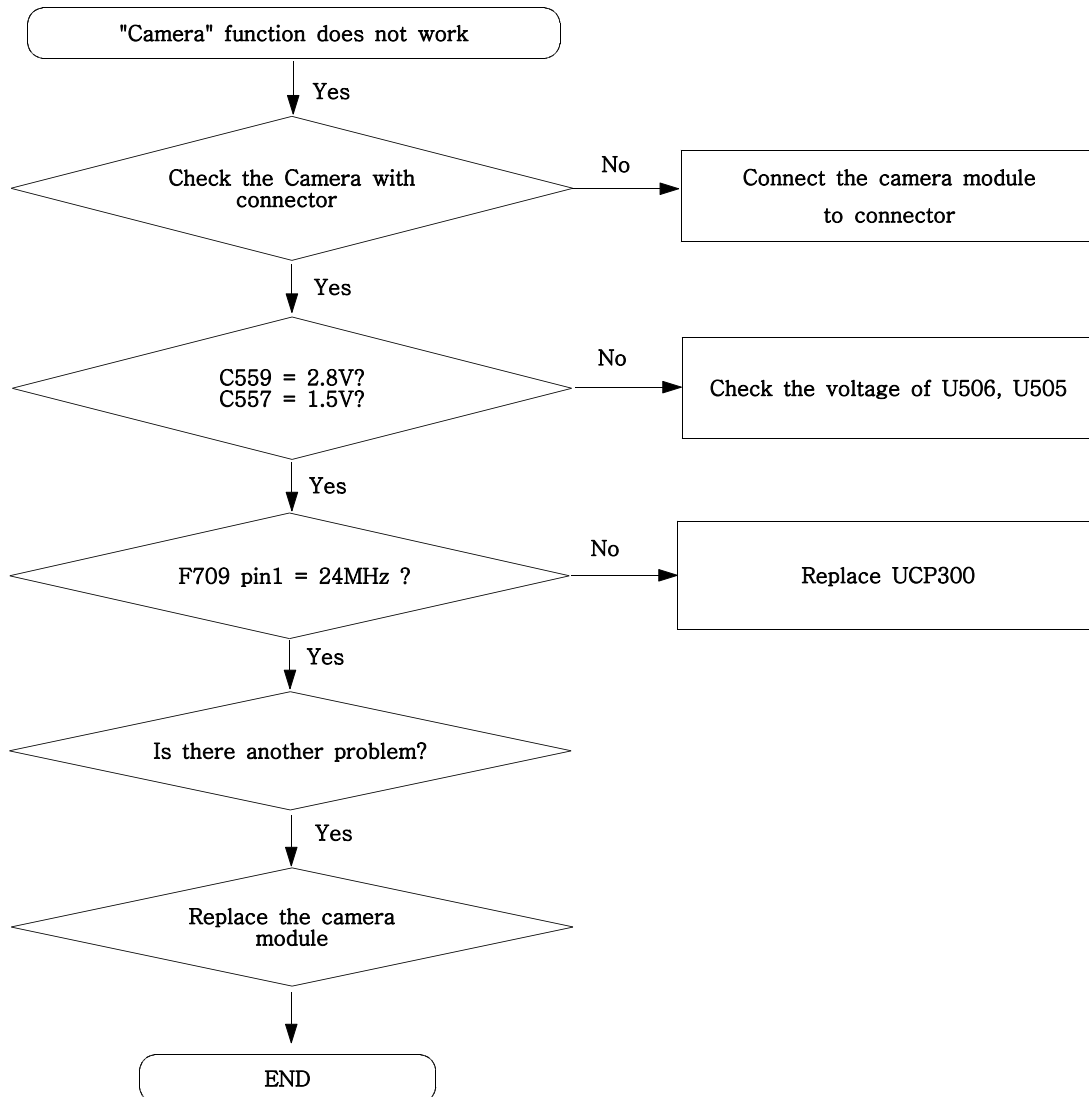
9-9. Key Back Light



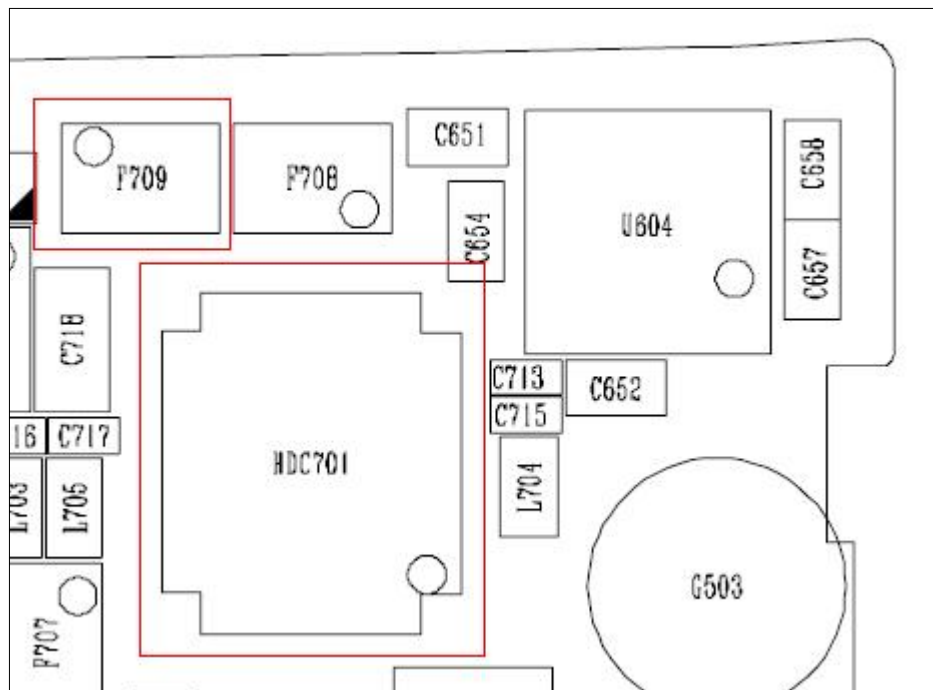
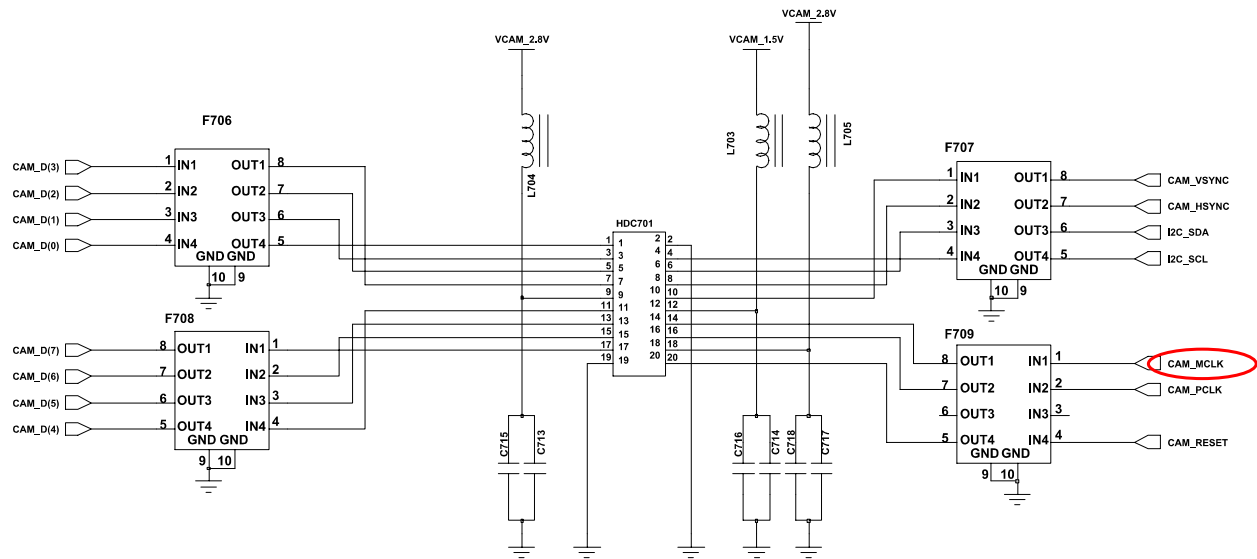
< Keypad LED Power >



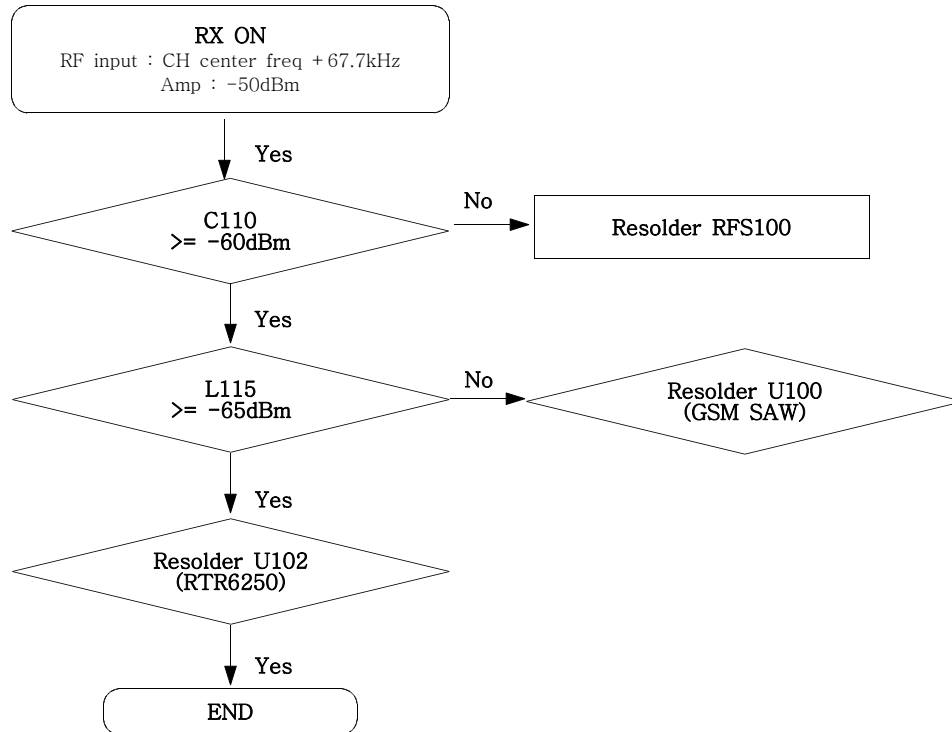
9-10. Camera part



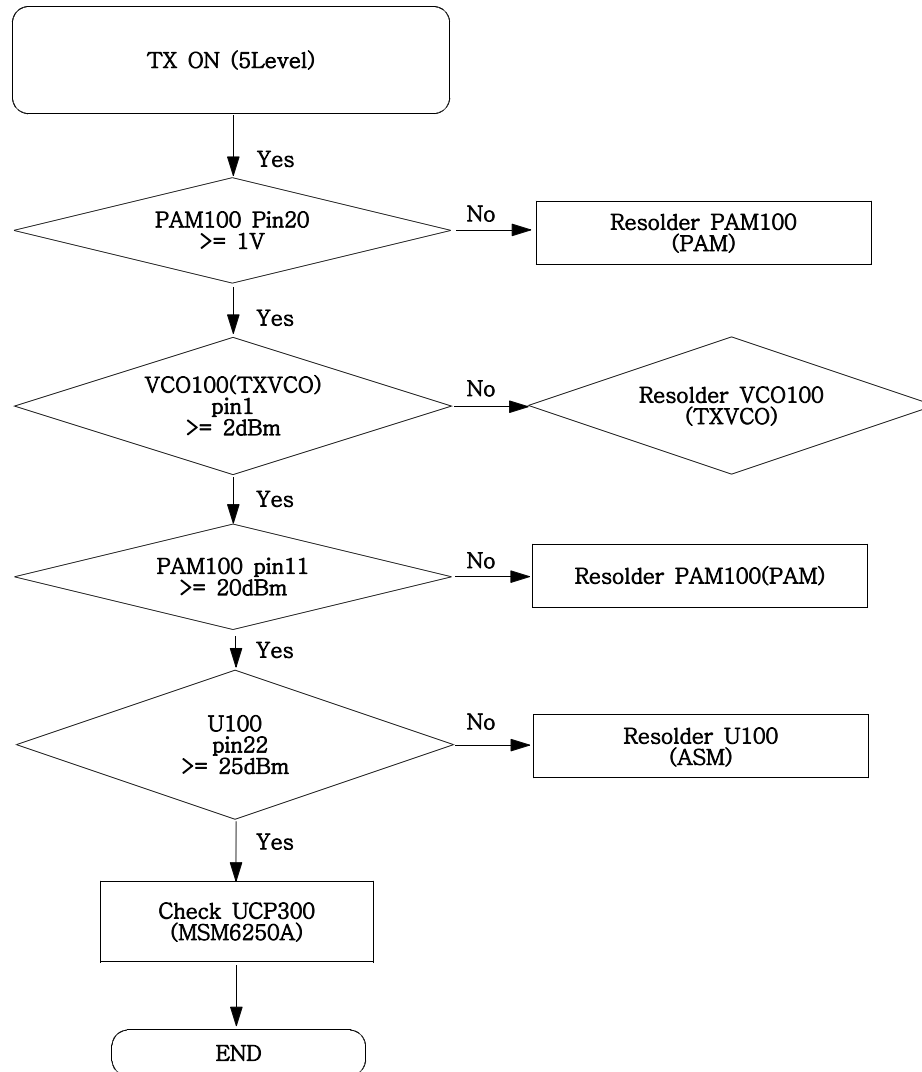
< Camera Connector >



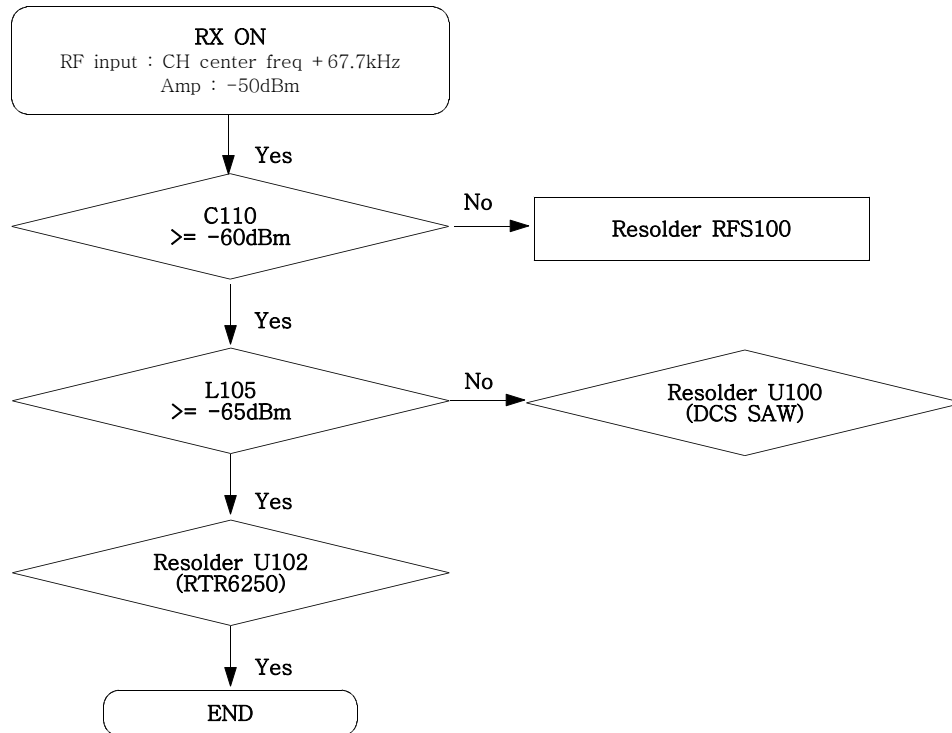
9-11. GSM Receiver



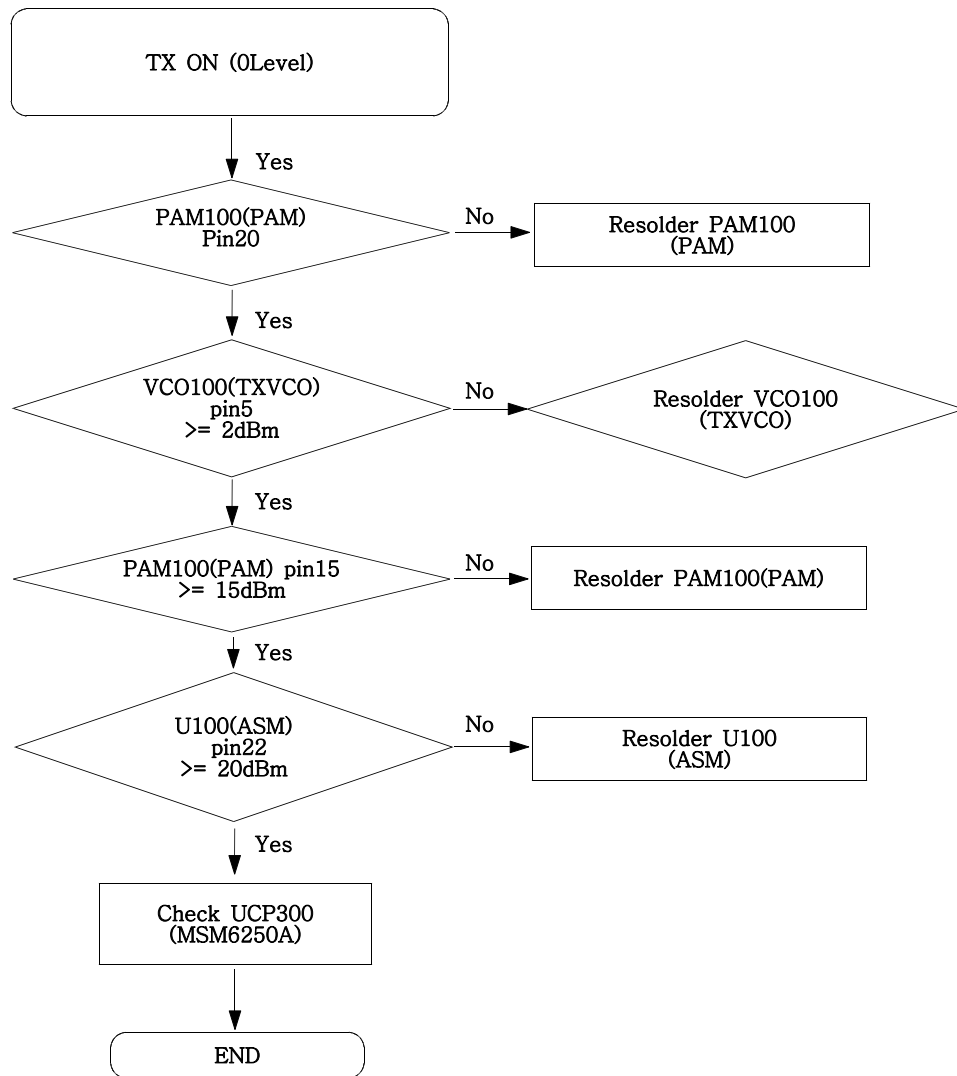
9-12. GSM Transmitter



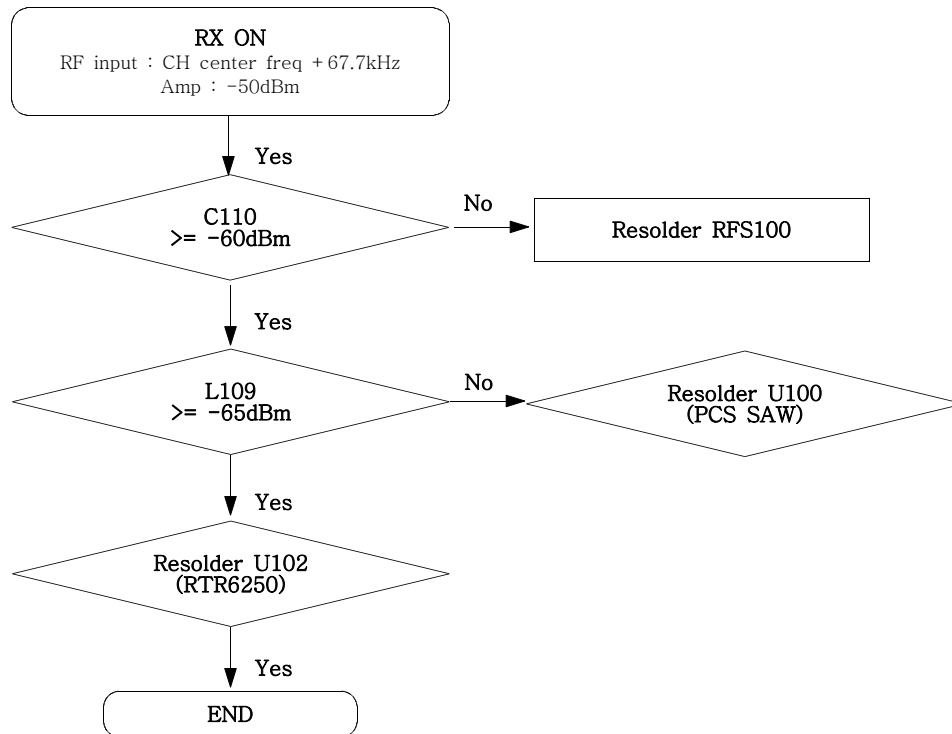
9-13. DCS Receiver



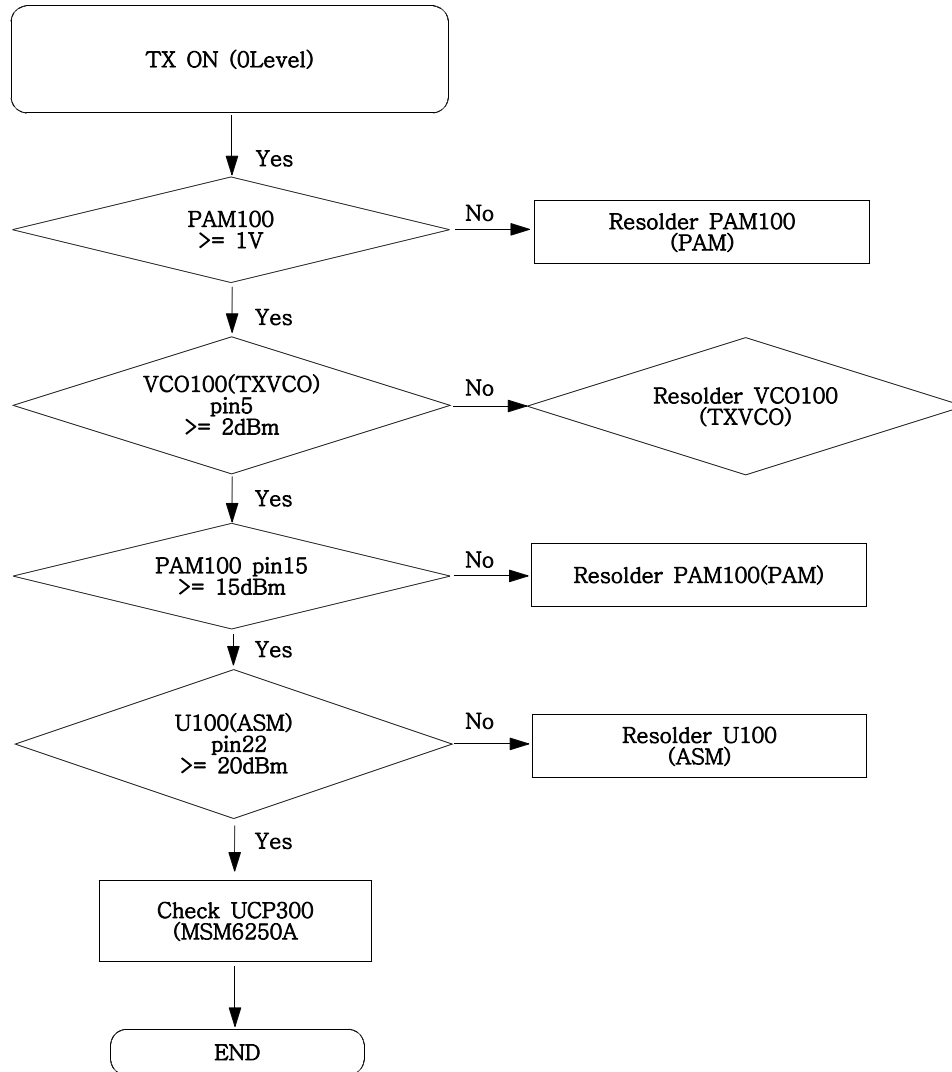
9-14. DCS Transmitter



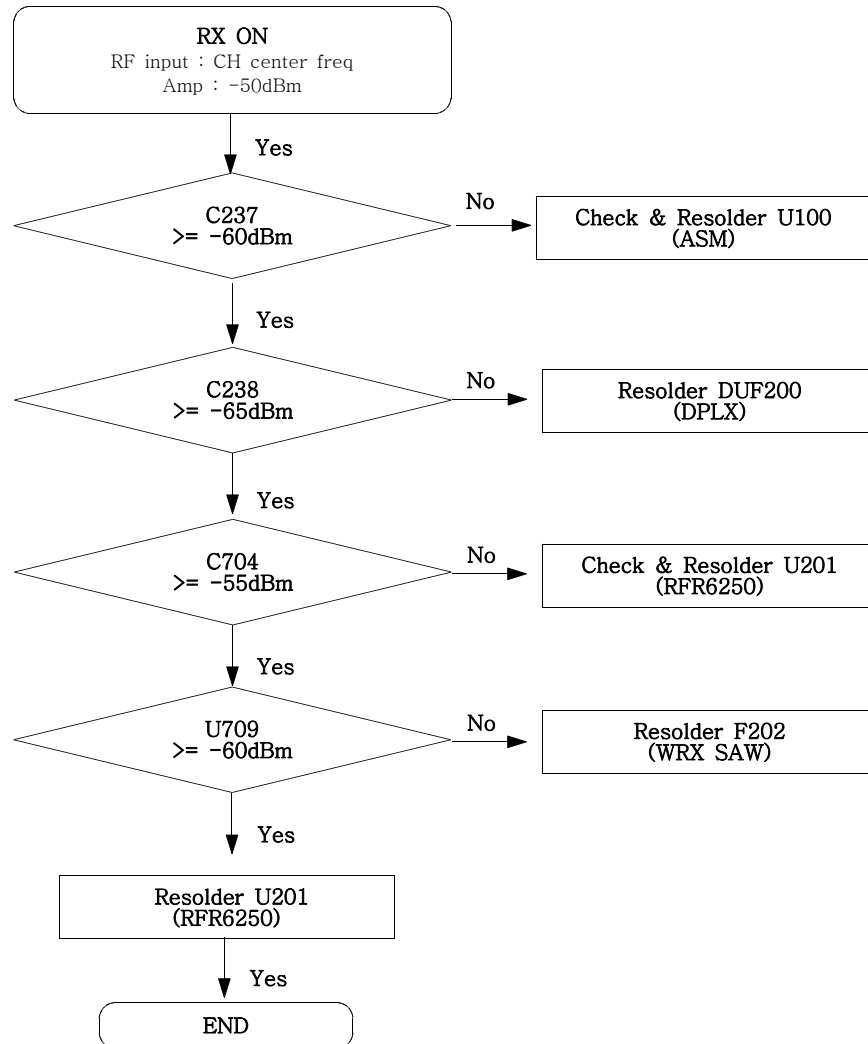
9-15. PCS Receiver



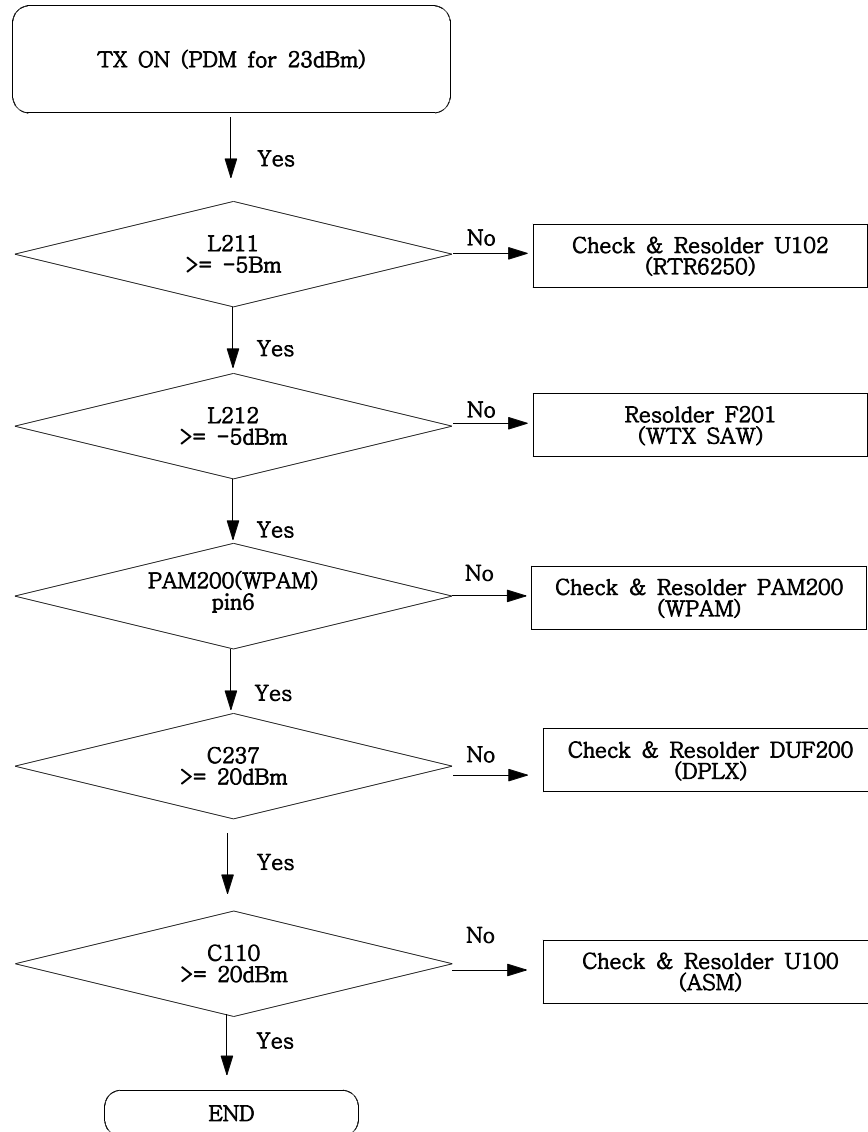
9-16. PCS Transmitter



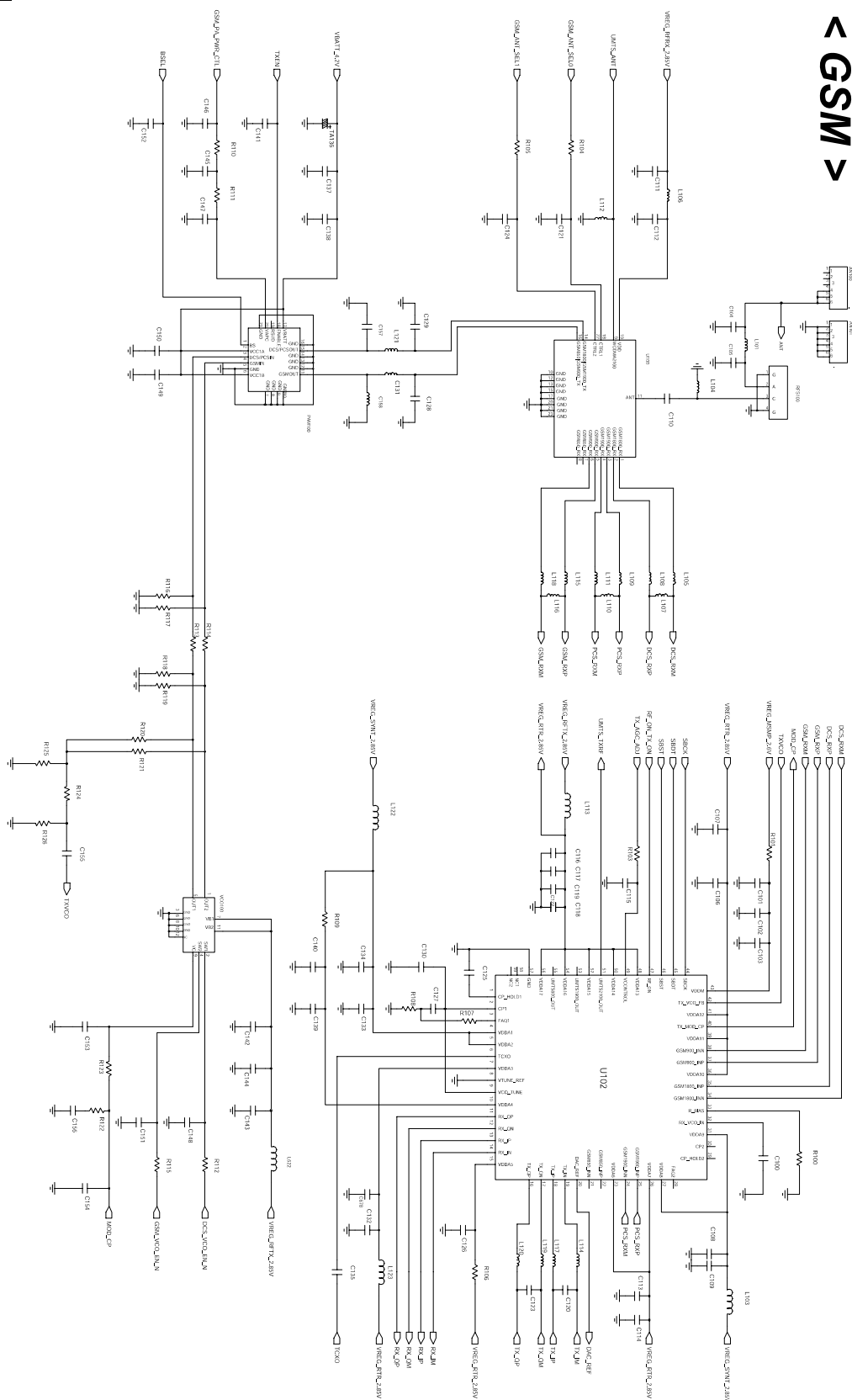
9-17. WCDMA Receiver



9-18. WCDMA Transmitter



> GSM >



The schematic diagram illustrates the UHF receiver circuit, which includes the following components and connections:

- Input Stage:** The UHF ANT signal is connected to the UHF IN pin of the UHF1 chip. The UHF1 chip is a UHF receiver IC with pins for UHF IN, UHF OUT, and UHF GND.
- Mixer and IF Amplifier:** The UHF OUT signal is connected to the UHF OUT pin of the UHF1 chip. The UHF1 chip is also connected to the UHF GND pin.
- Detector and Audio Output:** The UHF1 chip is connected to the UHF OUT pin of the UHF1 chip. The UHF1 chip is also connected to the UHF GND pin.
- Power and Grounding:** The circuit is powered by a 5V supply (VCC) and a 0V ground (GND). The UHF1 chip is connected to the VCC and GND pins.
- Components:** The circuit includes several capacitors (C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100) and resistors (R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100).

10. Reference data

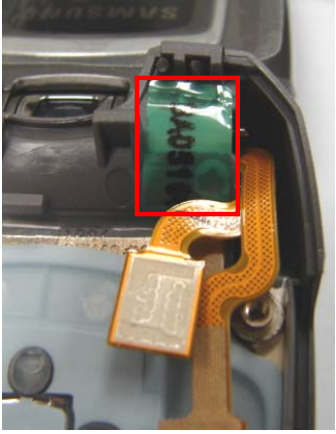
10-1. Reference Abbreviate

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

1) SGH-ZV40 Disassembly Instruction

PROJECT	Argo- II
MODEL	SGH-ZV40

*Product Engineering 3 Group
Mobile Communication Division
Telecommunication Network Business*

1  1) Unscrew the 4 points. 2) Separate the REAR from the FRONT ass'y using assembly stick.	2  1) Disjoin the connectors. 2) Detach key F-PCBs (camera,volume) from the FRONT ass'y.
※ Caution 1) Be care of scratch and molding damage.	※ Caution 1) Be care of scratch and molding damage. 1) Be care of damage to the FPCBs.
3  1) Disjoin the PBA and the key pad from the FRONT ass'y. 2) Detach the dust protection tape.	4  1) Push out the front to the right of the hinge. 2) Separate FOLDER ass'y from the FRONT.
※ Caution 1) Be care of scratch and molding damage.	※ Caution 1) Be care of damage to the FPCBs. 2) Be care of scratch and molding damage.

5



- 1) Detach the screw caps.
- 2) Unscrew 2 points.

※ Caution

- 1) Be care of scratch and molding damage.

6

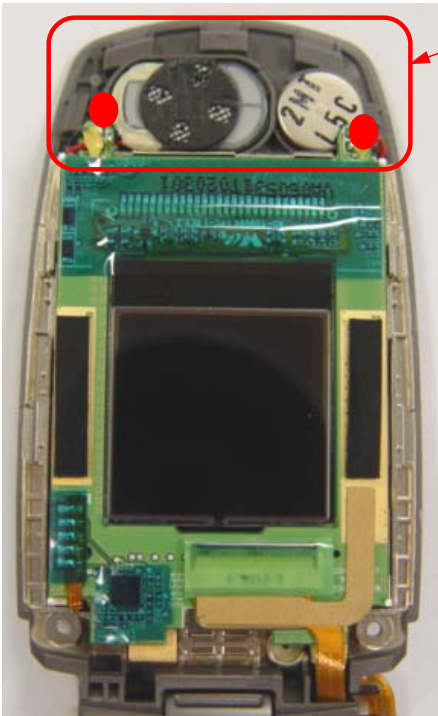


- 1) Disassemble UPPER using assembly stick.

※ Caution

- 1) Be care of scratch and molding damage.

7



Rotate hinge dummy like below.



Separate LCD module from the LOWER.

※ Caution

- 1) Be care of scratch and molding damage.
- 2) Be care of damage to motor/speaker wires.

8

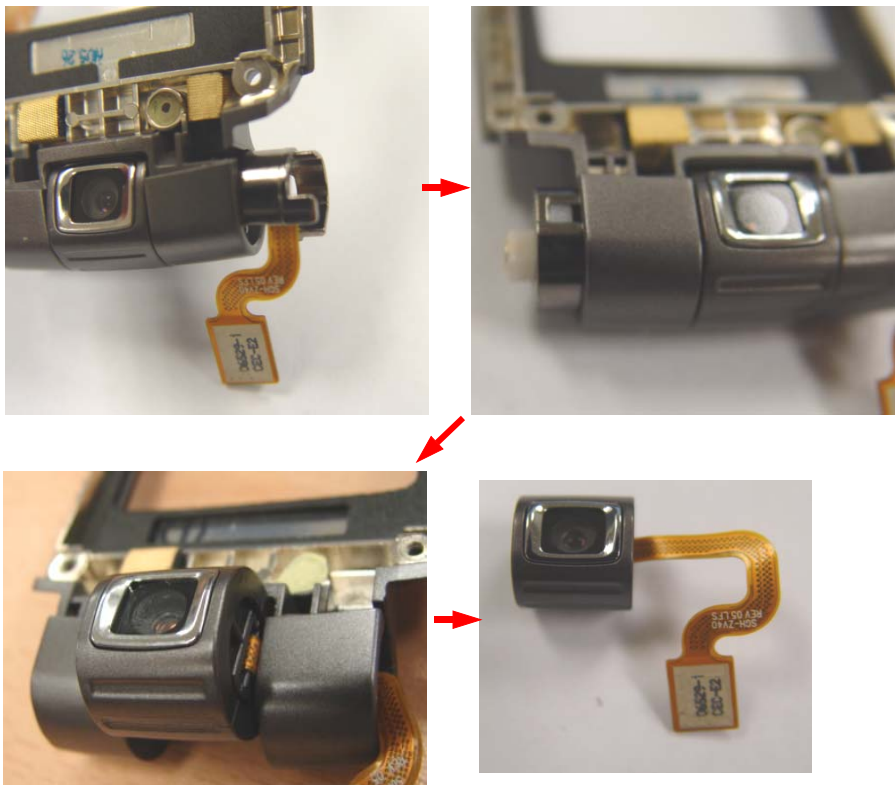


Take LCD out.

※ Caution

- 1) Be care of scratch and molding damage.
- 2) Be care of damage to LCD FPCB..

9



Disassemble camera module.

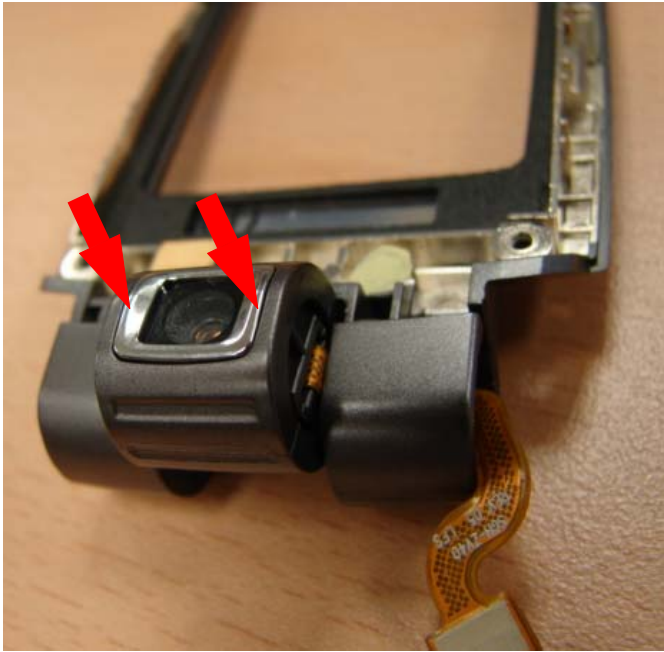
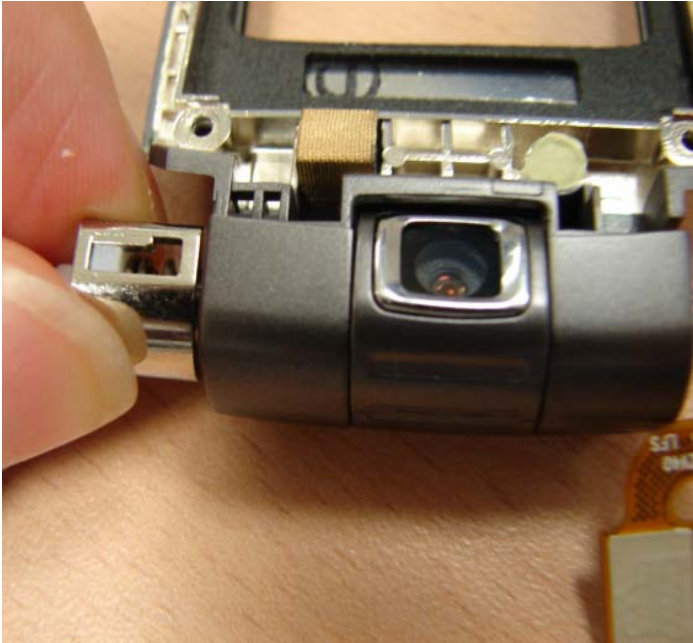
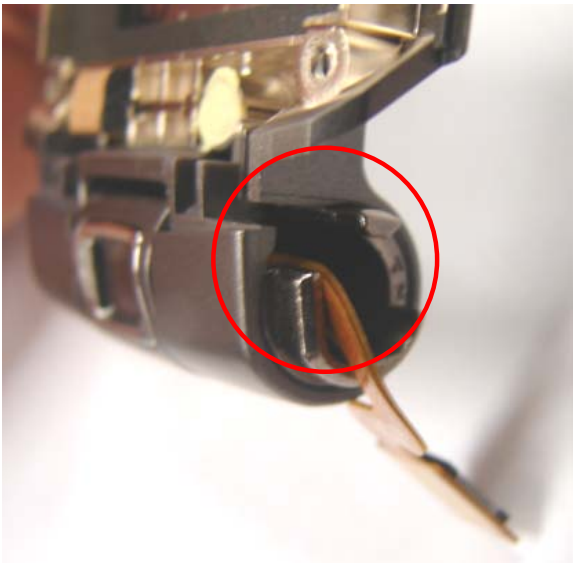
※ Caution

- 1) Be care of scratch and molding damage.
- 1) Be care of damage to camera FPCB..

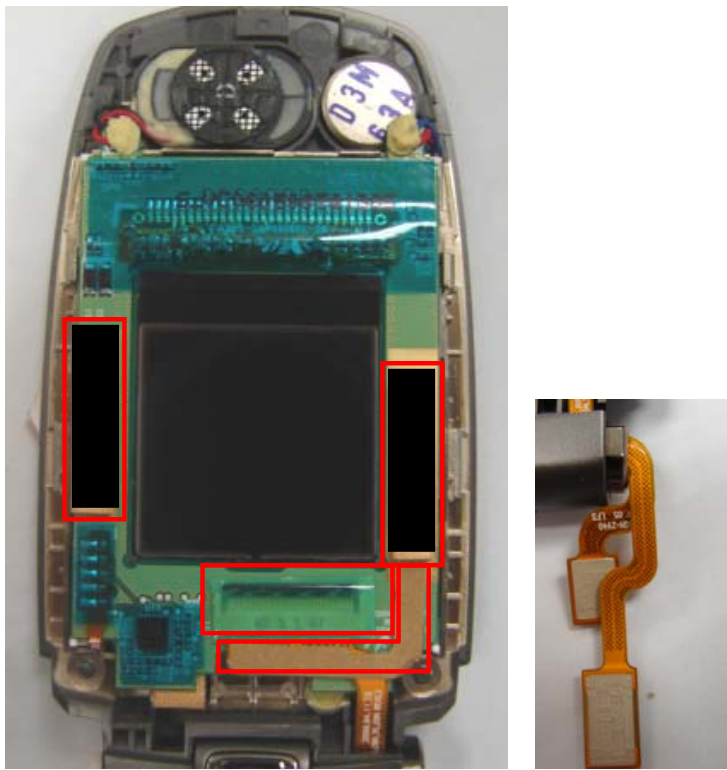
2) SGH-ZV40 Assembly Instruction

PROJECT	Argo- II
MODEL	SGH-ZV40

*Product Engineering 3 Group
Mobile Communication Division
Telecommunication Network Business*

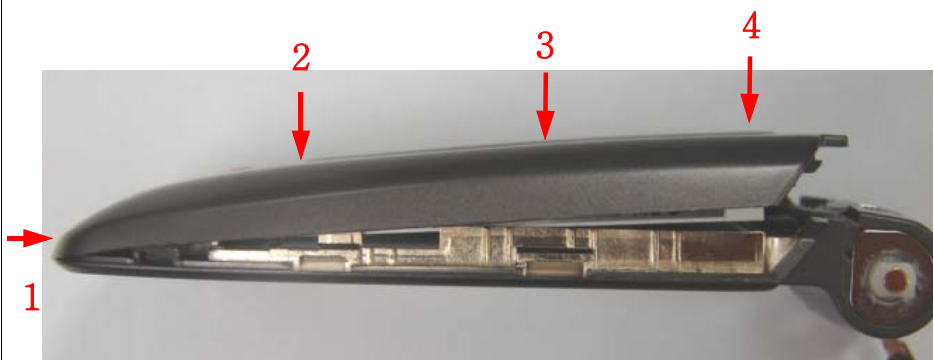
1  Assemble the camera into the lower. ※ Caution 1) Be care of damage to F-PCB of camera module.	2  Assemble the hinge ※ Caution 1) Be care of scratch and molding damage.
3  1) Assemble the hinge dummy ※ Caution 1) Be care of scratch and the direction of hinge dummy.	4  Place the hinge dummy like the picture ※ Caution 1) Be care of damage to the camera F-PCB.

5



Assemble the LCD into the lower

6



Assemble the folder

※ Caution

- 1) Be care of damage to the LCD module.
- 2) Place the LCD F-PCB on the camera F-PCB.
- 3) Tapes (in the red box) should be attached on the LCD module.

※ Caution

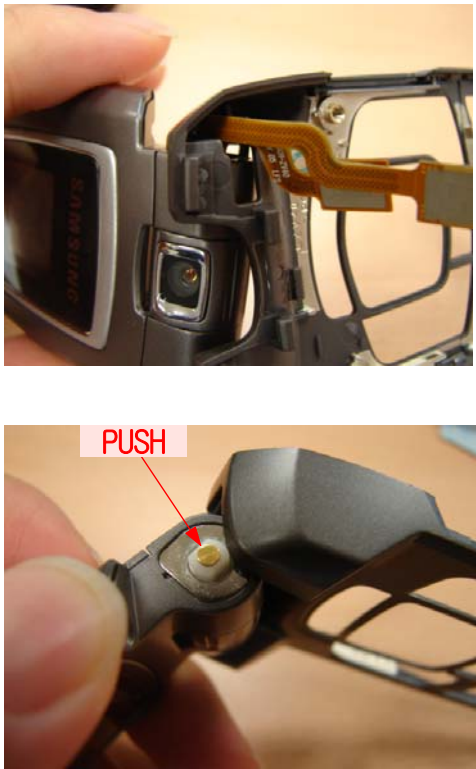
- 1) Be care of scratch and molding damage.

7



- 1) Screw down 2points.
- 2) Insert two screw caps.

8



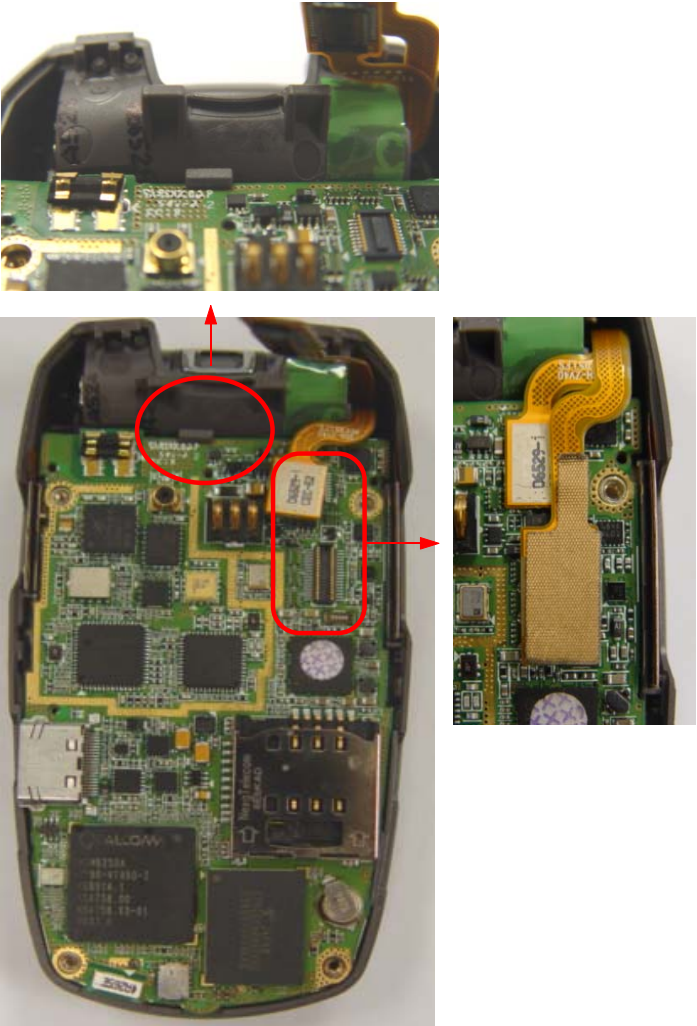
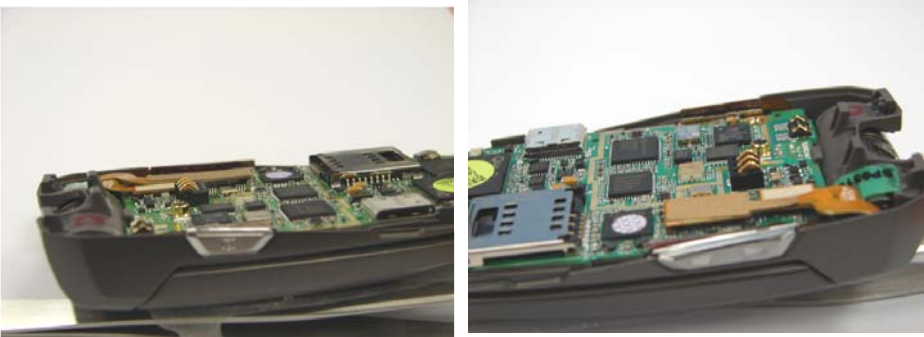
- 1) Assemble the folder and the front by fitting hinge dummy in the front.
- 2) Push the hinge.

※ Caution

- 1) Be care of scratch and molding damage.

※ Caution

- 1) Be care of scratch and molding damage.

9  1) Put the key pad on the front ass'y. 2) Attach the dust protection tape . ※ Caution 1) Be care of damage to the camera F-PCB.	10  1) Put the PBA on the front ass'y. 2) Join the LCD/CAMERA CONNECTOR. ※ Caution 1) Be care of scratch and molding damage of connector.
11  1) Assemble the VOLUME/CAMERA key. ※ Caution 1) Check the directon of both keys not to be inserted reversely	12  1) Screw down 4 points (Red circle) 2) Attach RF cover (Yellow circle) ※ Caution 1) Be care of scratch and molding damage.

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