



DUAL BAND Mobile Cellular Phone SGH-R225

SERVICE Manual

DUAL BAND MOBILE CELLULAR PHONE



CONTENTS

1. Exploded Views and Parts List
2. PCB Diagrams
3. Electrical Parts List
4. Block Diagrams
5. Flow Chart of Troubleshooting and Circuit Diagrams



1. Exploded Views and Parts List

- 1-1 Main
- 1-2 Main Parts List
- 1-3 Travel Adapter
- 1-4 Travel Adapter Parts List
- 1-5 Ciger Light Adapter
- 1-6 Ciger Light Adapter Parts List
- 1-7 Test Jig
- 1-8 EAR Microphone
- 1-9 Data Kit
- 1-10 Battery Charger

2. PCB Diagrams

- 2-1 Main Top
- 2-2 Main Bottom

3. Electrical Parts List

- 3-1 Main Parts List Top
- 3-2 Main Parts List Bottom

4. Block Diagrams

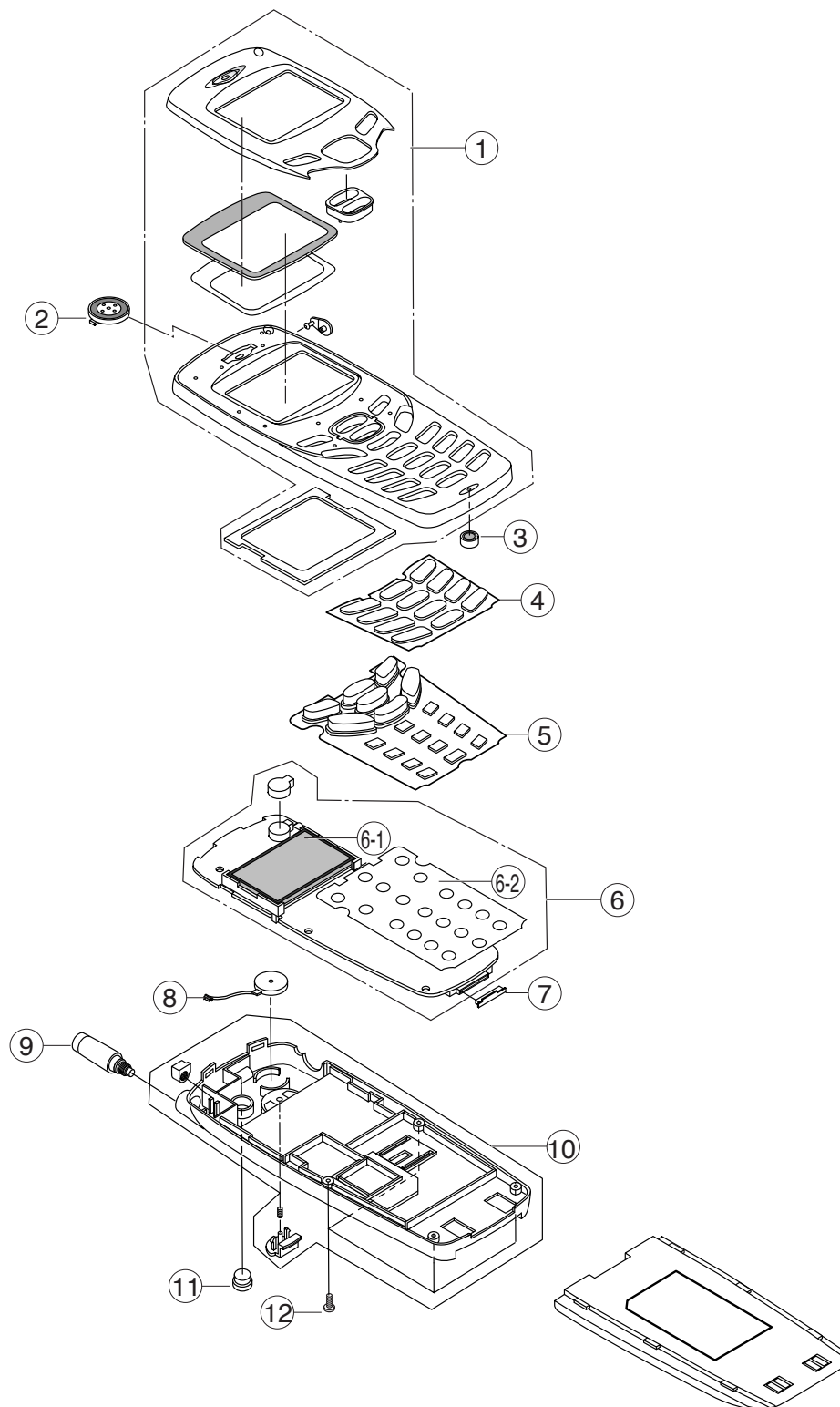
- 4-1 Main Baseband
- 4-2 Main RF
 - 4-2-1 RF Transmit Part
 - 4-2-2 RF Receive Part

5. Flow Chart of Troubleshooting and Circuit Diagrams

- 5-1 Power ON
 - 5-2 Initial
 - 5-3 Charging Part
 - 5-4 Sim Part
 - 5-5 Microphone Part
 - 5-6 Speaker Part
 - 5-7 Key Data Input
 - 5-8 Alert Tone
 - 5-9 Ring Indicator
 - 5-10 Back Light
 - 5-11 GSM Receiver
 - 5-12 GSM Transmitter
 - 5-13 DCS Receiver
 - 5-14 DCS Transmitter
-

1. SGH-R225 Exploded Views and Parts List

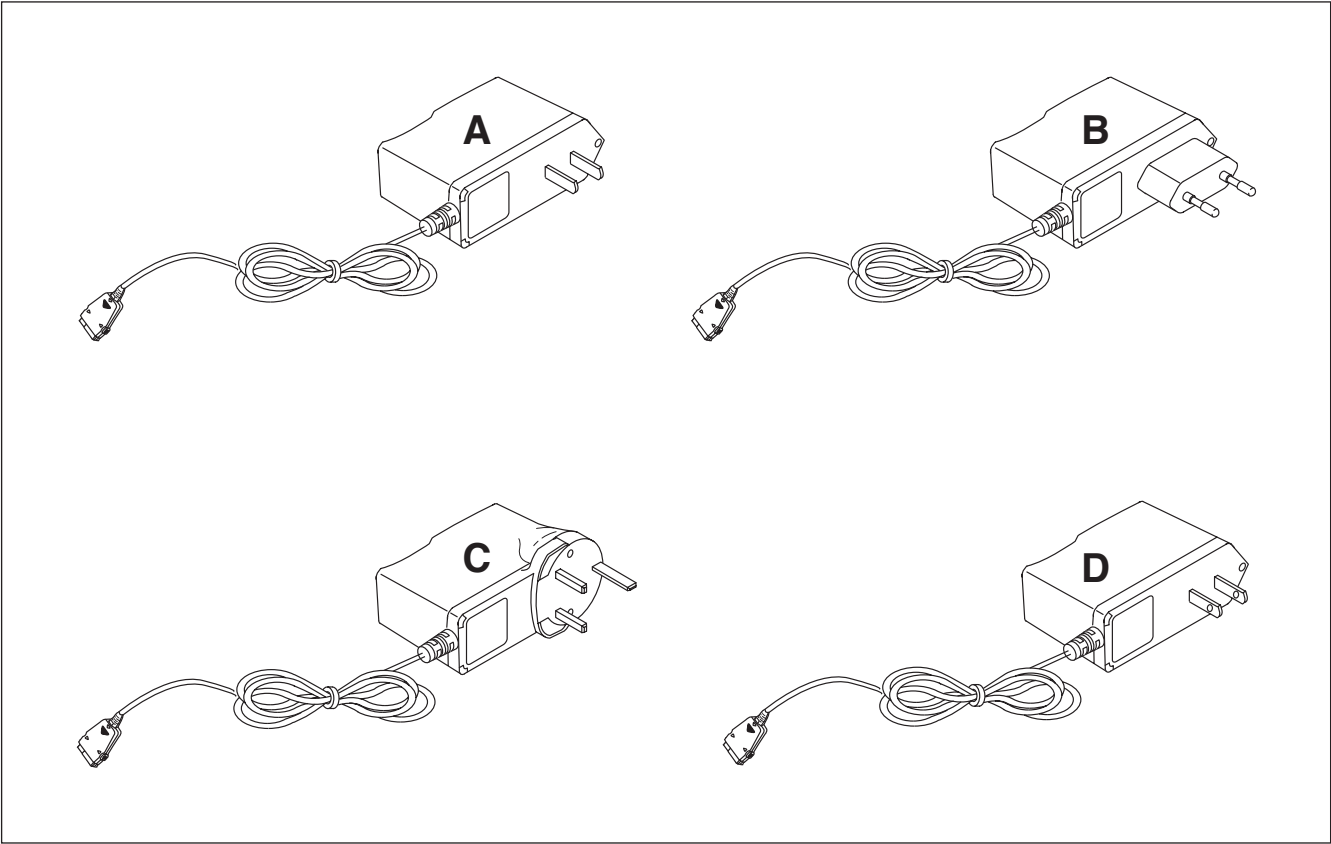
1-1 Main



1-2 Main Parts List

Location No.			Description	SEC CODE	Remark
1			FRONT COVER	GH75-01702A	
2			SPEAKER	3001-001233	
3			MIC	GH59-00240B	
4			FI-KEY	GH72-03772A	
5			KEYPAD	GH75-01700A	
6			MAIN PBA	GH92-01278A	
	6-1		LCD	GH07-00075B	
	6-2		DOME SHEET	GH72-02984B	
7			IF CONNECT COVER	GH73-00758A	
8			MOTOR	GH31-00019A	
9			ANTENNA	GH42-00141C	
10			REAR COVER	GH75-01165A	
11			R/F COVER	GH73-00759A	
12			SCREW	6001-001542	

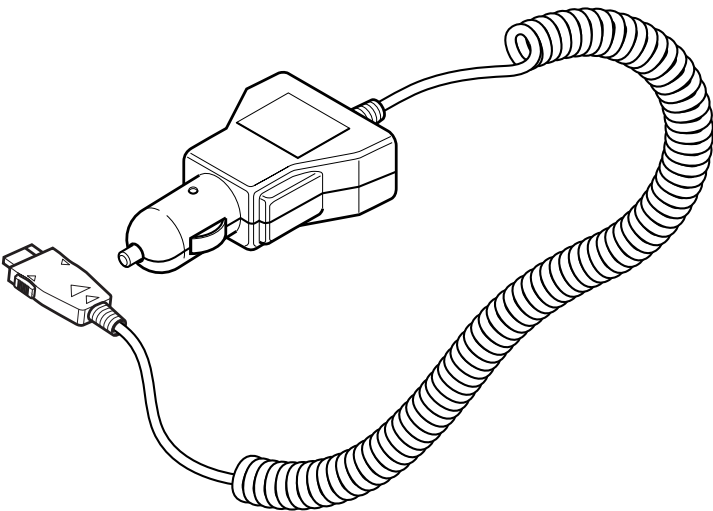
1-3 Travel Adapter



1-4 Travel Adapter Parts List

TYPE	SEC CODE	REMARK
A	GH44-00171A	CHINA
B	GH44-00184A	EUROPE
C	GH44-00171C	UNITED KINGDOM
D	Gh44-00171E	TAIWAN

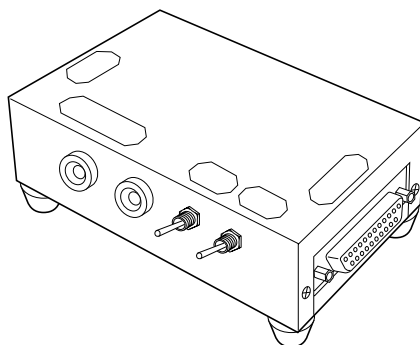
1-5 Ciger Light Adapter



1-6 Ciger Light Adapter Parts List

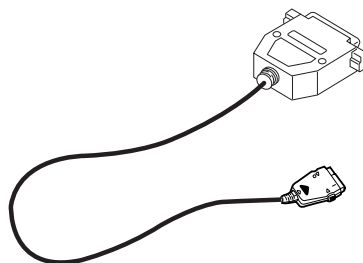
DESCRIPTION	SEC CODE	REMARK
Ciger Light Adapter Code	GH44-00170A	BLACK

1-7 Test Jig



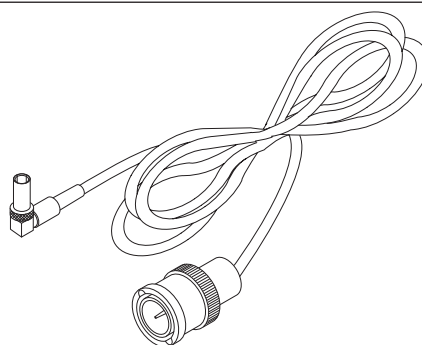
TEST JIG

GH80-10508A



TEST JIG CABLE

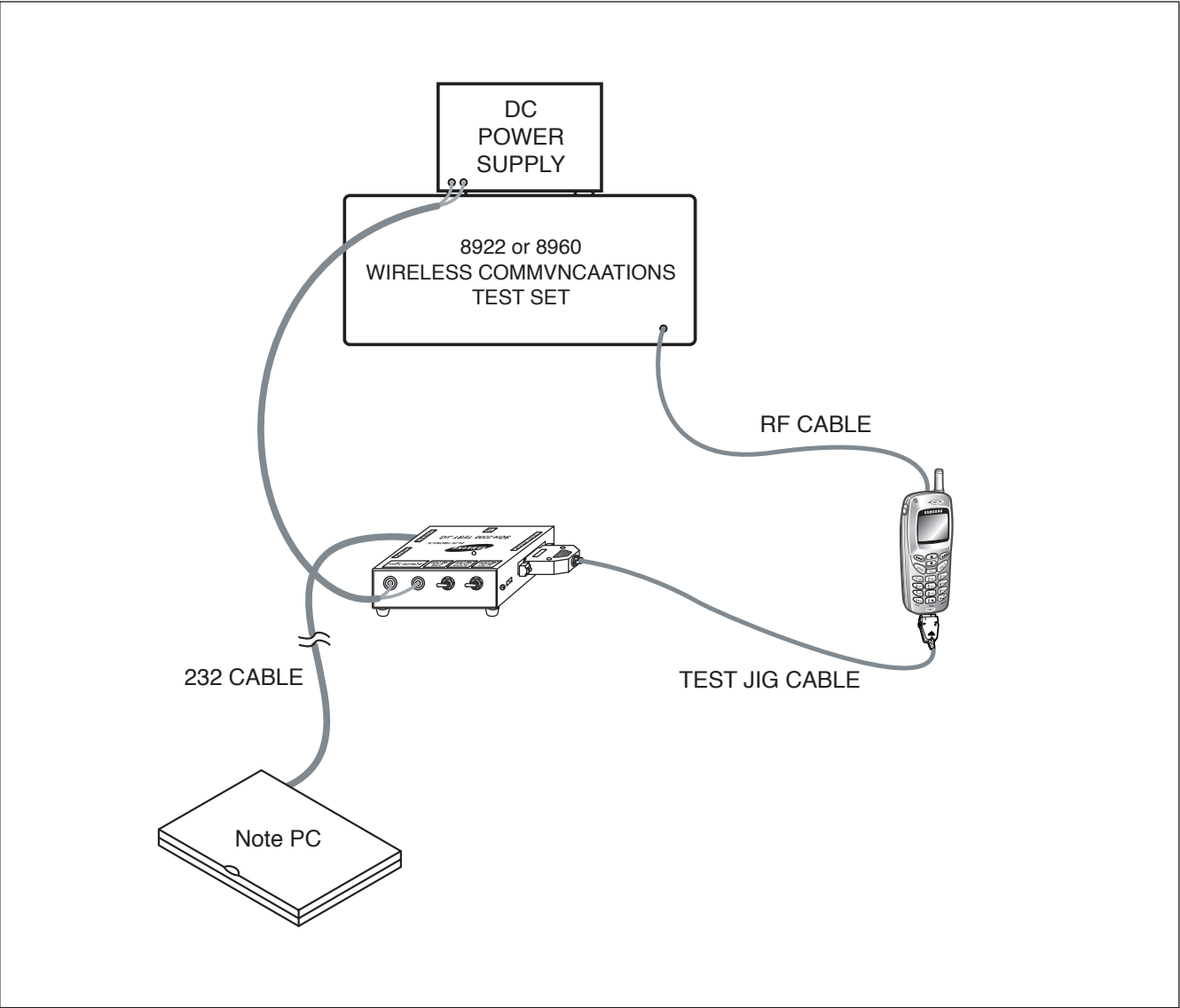
GH39-00079A



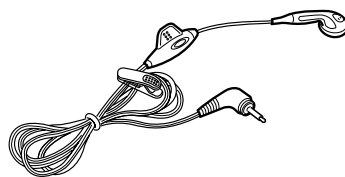
RF CABLE

GH39-00090A

1-7-1 Test Jig



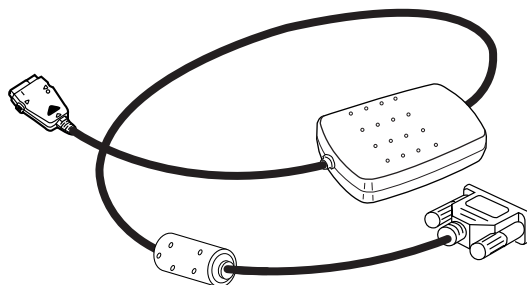
1-8 EAR Microphone



EAR MICROPHONE

GH59-00411A

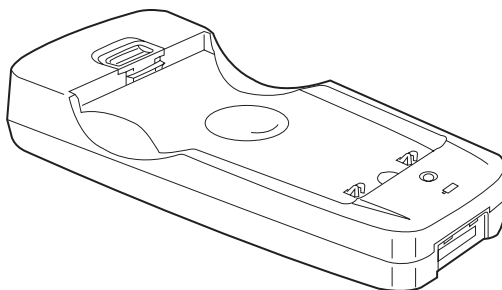
1-9 Data Kit



DATA KIT

GH39-00078A

1-10 Battery Charger

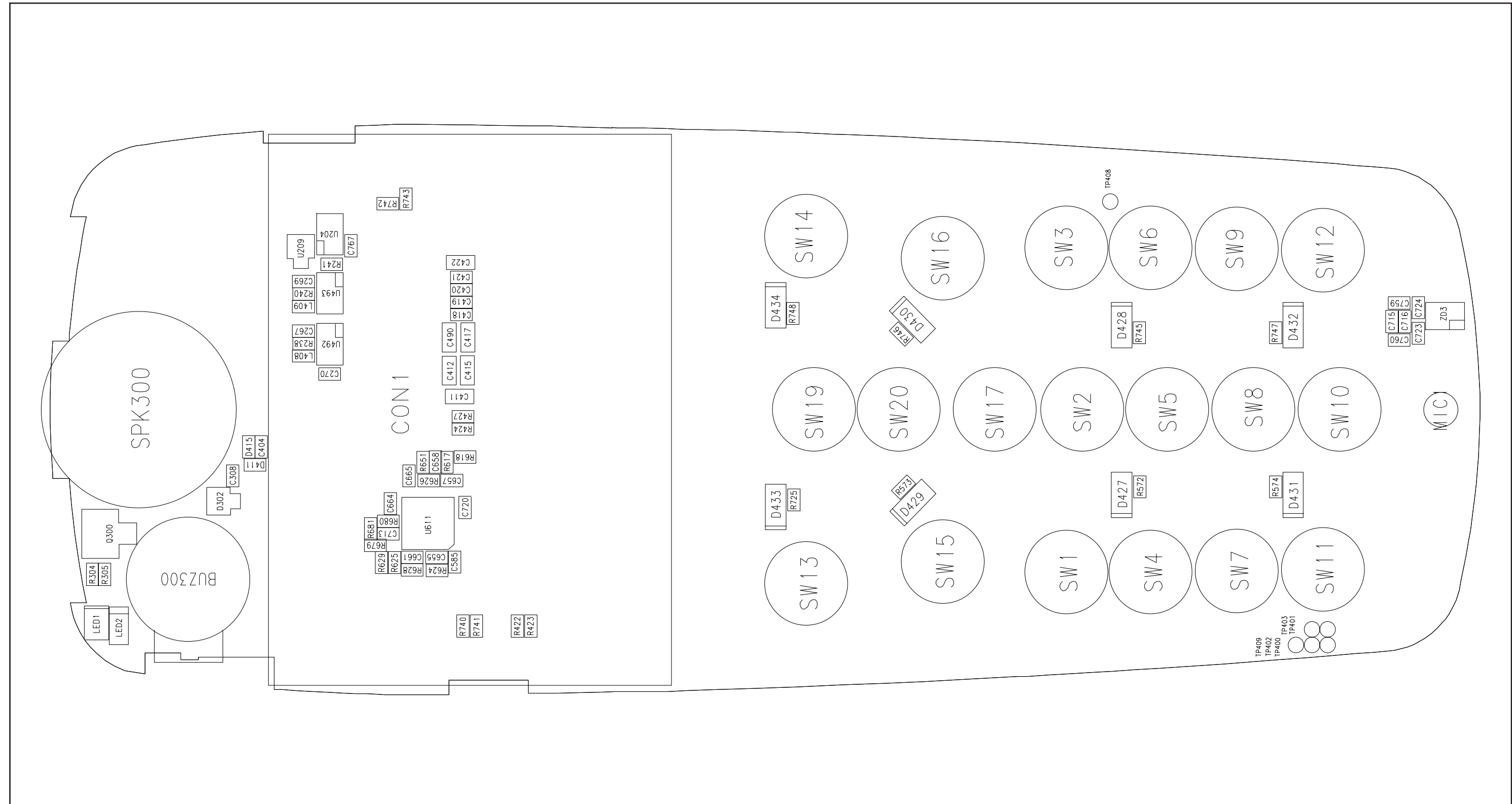


BATTERY CHAGER

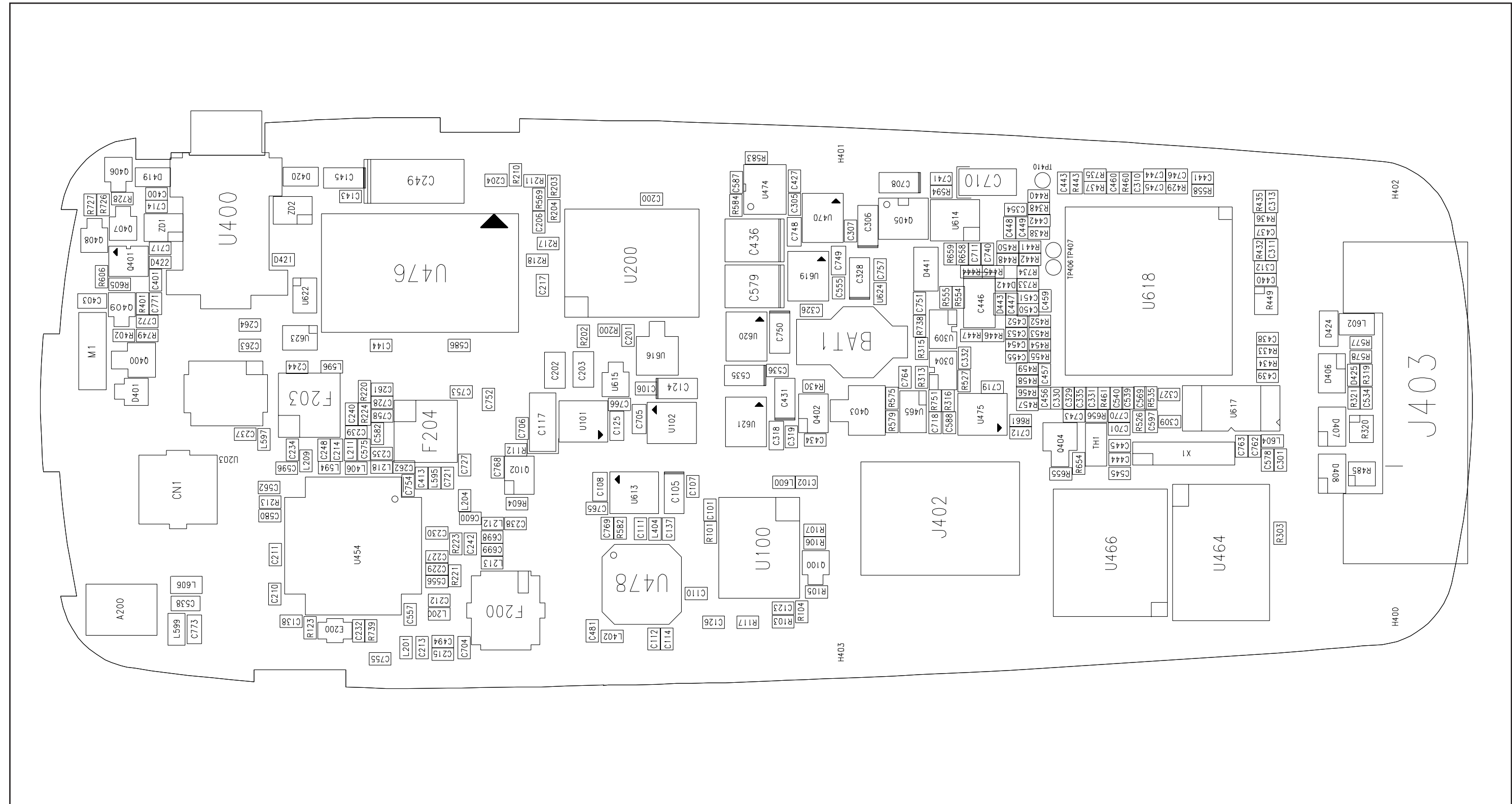
GH44-00256A

2. PCB Diagrams

2-1 Main Top



2-2 Main Bottom



3. Electrical Parts List

3-1 Main Parts List Top

NO	SEC CODE	Reference	Part Description	Vendor Part No.
1	0401-001033	D441	MCL4154,25V,200mA,M-MELF,TP	MCL4154
2	0406-001083	D406	-,6.1/-7.2V,150W,SOT-323-5L	ESDA6V1W5
3	0406-001083	D407	-,6.1/-7.2V,150W,SOT-323-5L	ESDA6V1W5
4	0406-001083	D408	-,6.1/-7.2V,150W,SOT-323-5L	ESDA6V1W5
5	0406-001083	ZD1	-,6.1/-7.2V,150W,SOT-323-5L	ESDA6V1W5
6	0406-001083	ZD2	-,6.1/-7.2V,150W,SOT-323-5L	ESDA6V1W5
7	0407-001002	D401	DAN222,80V,300mA,CA2-3,EM3,TP	DAN222TL
8	0407-001007	D304	UMN1,80V,25mA,CA4-2,UM5,TR	UMN1TR
9	0501-000162	Q400	2SA1576,PNP,200MW,SOT-323,TP,180-390	STA1576G
10	0501-000162	Q404	2SA1576,PNP,200MW,SOT-323,TP,180-390	STA1576G
11	0501-000225	Q100	2SC4617,NPN,200mW,EM3,TP,120-5	2SC4617R
12	0501-002011	Q403	2SD2114K,NPN,200mW,SOT-23,TP,8	2SD2114KT146V
13	0502-001201	Q405	ZXT13P20DE6,PNP,1100MW,SOT-23-6,TP,300-900	ZXT13P20DE6TA
14	0504-000167	Q409	RN1102,NPN,100MW,10K/10K,SSM,TP	RN1102(TE85R)
15	0504-000167	U615	RN1102,NPN,100MW,10K/10K,SSM,TP	RN1102(TE85R)
16	0504-001012	Q406	DTC114YE,NPN,150MW,10K/47K,EMT3,TP	DTC114YE
17	0504-001012	Q407	DTC114YE,NPN,150MW,10K/47K,EMT3,TP	DTC114YE
18	0504-001012	Q408	DTC114YE,NPN,150MW,10K/47K,EMT3,TP	DTC114YE
19	0504-001021	U616	DTB113ZK,PNP,200MW,10K,SC-59,TP	DTB113ZK
20	0504-001058	U465	RN4985,NPN/PNP,200mW,2.2Kohm/47Kohm,UMD6,TP	RN4985(TE85L)
21	0505-001332	Q401	FDG6301,N,25V,0.22A,4OHM,.3W,SC70-6	FDG6301N
22	0505-001376	U474	FDC6329L,N/P,8V,2.5A,-,0.7W,SC-74	SI3865DV-T1
23	0505-001570	Q102	-,N/P,-,-,-,0.4W,SC70-6	SI1865DL-T1
24	0505-001570	Q402	-,N/P,-,-,-,0.4W,SC70-6	SI1865DL-T1
25	0506-001004	U309	UMC5N,NPN/PNP,2,50V,-,-100mA,3	UMC5NTR
26	1103-001185	U617	24A2561,32Kx8Bit,TSSOP,8P,-,1.8V,-,PLASTIC,-25to+70C,1uA,CMOS,TR	24LC256T-I-ST
27	1106-001400	U464	K6F4016U6E,256KX16BIT,TBGA,48P,6X7MM,70NS,3V,10%,PLASTIC,-40TO+85C,12UA,CMOS,TR	K6F4016U6E
28	1107-001304	U466	AM29DL162,2MX8BIT,FBGA,48P,-,90NS,3V,10%,PLASTIC,-40TO+85C,-,CMOS,TR	AM29DL162DT-90WCI
29	1201-001864	U476	08123,-,8P,13.75X8MM,DUAL,-,-,4.5V,-,-25TO+100C,-,-,-,-	PF08123B
30	1203-001204	U470	2981,SOT-23,5P,59MIL,PLASTIC,3	LP2981AIM5X-3.3
31	1203-001204	U621	2981,SOT-23,5P,59MIL,PLASTIC,3	LP2981AIM5X-3.3
32	1203-001454	U101	2981,SOT-23,5P,59MIL,PLASTIC,3	LP2981AIM5X-3.0
33	1203-001454	U102	2981,SOT-23,5P,59MIL,PLASTIC,3	LP2981AIM5X-3.0
34	1203-001454	U613	2981,SOT-23,5P,59MIL,PLASTIC,3	LP2981AIM5X-3.0
35	1203-001454	U619	2981,SOT-23,5P,59MIL,PLASTIC,3	LP2981AIM5X-3.0
36	1203-001454	U620	2981,SOT-23,5P,59MIL,PLASTIC,3	LP2981AIM5X-3.0

NO	SEC CODE	Reference	Part Description	Vendor Part No.
37	1203-002127	U614	1734,SOT-23,6P,150MIL,PLASTIC,4.7/5.3V,-,0to+70C,1A,-,TP	LTC1734ES6#TR
38	1203-002247	U475	S-809,SOT-23-5,5P,-,-,150MW,-40TO+85C,50MA,-,TP	S-80926ALMP-DAP-T2
39	1205-001881	U618	VP40575,BGA,180P,472MIL,PLASTIC,3.3V,-,20to+85C,TR,OneC Processor	VP40575
40	1205-001935	U454	HD155128TF,TP,56P,-,-,3V,400mW,-20to+75C,QFP,-	HD155128TF
41	1209-001337	U478	SI4133G-XM2R,LCC,28P,-,-,3.6V,-,40to+85C,TP	SI4133GXM2R
42	1404-001005	TH1	47Kohm,5%,4050K,2.0mW/C,TP	NCP21WB473J03RA
43	1405-001018	D419	14V,-,1.6x0.8mm,TP	VC060314A300R
44	1405-001018	D420	14V,-,1.6x0.8mm,TP	VC060314A300R
45	1405-001018	D424	14V,-,1.6x0.8mm,TP	VC060314A300R
46	1405-001093	D421	14V,20A,1x0.5x0.6mm,TP	AVL 14K 02 200
47	1405-001093	D422	14V,20A,1x0.5x0.6mm,TP	AVL 14K 02 200
48	1405-001093	D425	14V,20A,1x0.5x0.6mm,TP	AVL 14K 02 200
49	1405-001093	D442	14V,20A,1x0.5x0.6mm,TP	AVL 14K 02 200
50	1405-001093	D443	14V,20A,1x0.5x0.6mm,TP	AVL 14K 02 200
51	2007-000138	R200	100ohm,5%,1/16W,DA,TP,1005	RC1005J101CS
52	2007-000138	R321	100ohm,5%,1/16W,DA,TP,1005	RC1005J101CS
53	2007-000139	R203	220ohm,5%,1/16W,DA,TP,1005	RC1005J101CS
54	2007-000139	R204	220ohm,5%,1/16W,DA,TP,1005	RC1005J101CS
55	2007-000139	R444	220ohm,5%,1/16W,DA,TP,1005	RC1005J101CS
56	2007-000139	R447	220ohm,5%,1/16W,DA,TP,1005	RC1005J101CS
57	2007-000140	R106	1Kohm,5%,1/16W,DA,TP,1005	RC1005J102CS
58	2007-000140	R584	1Kohm,5%,1/16W,DA,TP,1005	RC1005J102CS
59	2007-000140	R738	1Kohm,5%,1/16W,DA,TP,1005	RC1005J102CS
60	2007-000141	R103	2.2Kohm,5%,1/16W,DA,TP,1005	RC1005J222CS
61	2007-000141	R223	2.2Kohm,5%,1/16W,DA,TP,1005	RC1005J222CS
62	2007-000141	R433	2.2Kohm,5%,1/16W,DA,TP,1005	RC1005J222CS
63	2007-000141	R434	2.2Kohm,5%,1/16W,DA,TP,1005	RC1005J222CS
64	2007-000142	R402	2.7Kohm,5%,1/16W,DA,TP,1005	RC1005J272CS
65	2007-000148	R101	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
66	2007-000148	R303	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
67	2007-000148	R313	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
68	2007-000148	R315	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
69	2007-000148	R348	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
70	2007-000148	R435	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
71	2007-000148	R438	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
72	2007-000148	R450	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
73	2007-000148	R461	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
74	2007-000148	R526	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
75	2007-000148	R535	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
76	2007-000148	R554	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
77	2007-000148	R558	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
78	2007-000148	R582	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS

NO	SEC CODE	Reference	Part Description	Vendor Part No.
79	2007-000148	R604	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
80	2007-000148	R654	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
81	2007-000148	R655	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
82	2007-000148	R661	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
83	2007-000148	R751	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
84	2007-000152	R429	20Kohm,5%,1/16W,DA,TP,1005	RC1005J203CS
85	2007-000153	R213	22Kohm,5%,1/16W,DA,TP,1005	RC1005J223CS
86	2007-000155	R104	27Kohm,5%,1/16W,DA,TP,1005	RC1005J273CS
87	2007-000157	R441	47Kohm,5%,1/16W,DA,TP,1005	RC1005J473CS
88	2007-000157	R442	47Kohm,5%,1/16W,DA,TP,1005	RC1005J473CS
89	2007-000157	R443	47Kohm,5%,1/16W,DA,TP,1005	RC1005J473CS
90	2007-000159	R656	56Kohm,5%,1/16W,DA,TP,1005	RC1005J563CS
91	2007-000162	R112	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
92	2007-000162	R316	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
93	2007-000162	R430	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
94	2007-000162	R432	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
95	2007-000162	R437	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
96	2007-000162	R460	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
97	2007-000162	R527	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
98	2007-000162	R555	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
99	2007-000162	R579	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
100	2007-000162	R583	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
101	2007-000162	R605	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
102	2007-000162	R606	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
103	2007-000168	R440	470Kohm,5%,1/16W,DA,TP,1005	RC1005J474CS
104	2007-000168	R735	470Kohm,5%,1/16W,DA,TP,1005	RC1005J474CS
105	2007-000172	R220	10ohm,5%,1/16W,DA,TP,1005	RC1005J100CS
106	2007-000172	R224	10ohm,5%,1/16W,DA,TP,1005	RC1005J100CS
107	2007-000172	R577	10ohm,5%,1/16W,DA,TP,1005	RC1005J100CS
108	2007-000172	R578	10ohm,5%,1/16W,DA,TP,1005	RC1005J100CS
109	2007-000174	R123	47ohm,5%,1/16W,DA,TP,1005	RC1005J470CS
110	2007-000174	R569	47ohm,5%,1/16W,DA,TP,1005	RC1005J470CS
111	2007-001217	R218	82ohm,5%,1/16W,DA,TP,1005	RC1005J820CS
112	2007-001244	R105	91Kohm,5%,1/16W,DA,TP,1005	RC1005J913CS
113	2007-001292	R202	33ohm,5%,1/16W,DA,TP,1005	ERJ2GEJ330X
114	2007-001298	R221	51ohm,5%,1/16W,DA,TP,1005	RC1005J510CS
115	2007-002796	R445	510ohm,5%,1/16W,DA,TP,1005	ERJ2GEJ511X
116	2007-002796	R446	510ohm,5%,1/16W,DA,TP,1005	ERJ2GEJ511X
117	2007-002797	R107	560ohm,5%,1/16W,DA,TP,1005	ERJ2GEJ561X
118	2007-002797	R117	560ohm,5%,1/16W,DA,TP,1005	ERJ2GEJ561X
119	2007-002970	R210	56OHM,5%,1/16W,DA,TP,1005	RC1005J560CS
120	2007-002970	R728	56OHM,5%,1/16W,DA,TP,1005	RC1005J560CS

NO	SEC CODE	Reference	Part Description	Vendor Part No.
121	2007-003112	R211	27OHM,5%,1/16W,DA,TP,1005	RC1005J270CS
122	2007-003112	R217	27OHM,5%,1/16W,DA,TP,1005	RC1005J270CS
123	2007-007001	R575	3.9KOHM,5%,1/16W,DA,TP,1005	RC1005J392CS
124	2007-007009	R727	75OHM,5%,1/16W,DA,TP,1005	RC1005J750CS
125	2007-007015	R749	13KOHM,5%,1/16W,DA,TP,1005	RC1005J133CS
126	2007-007095	R726	390OHM,5%,1/16W,DA,TP,1005	RC1005J391CS
127	2007-007107	R658	100Kohm,1%,1/16W,DA,TP,1005	RC1005F1003CS
128	2007-007317	R452	2.2Kohm,1%,1/16W,DA,TP,1005	ERJ2RKF2201X
129	2007-007317	R453	2.2Kohm,1%,1/16W,DA,TP,1005	ERJ2RKF2201X
130	2007-007317	R454	2.2Kohm,1%,1/16W,DA,TP,1005	ERJ2RKF2201X
131	2007-007317	R455	2.2Kohm,1%,1/16W,DA,TP,1005	ERJ2RKF2201X
132	2007-007318	R456	1Kohm,1%,1/16W,DA,TP,1005	ERJ2RKF1001X
133	2007-007318	R457	1Kohm,1%,1/16W,DA,TP,1005	ERJ2RKF1001X
134	2007-007318	R458	1Kohm,1%,1/16W,DA,TP,1005	ERJ2RKF1001X
135	2007-007318	R459	1Kohm,1%,1/16W,DA,TP,1005	ERJ2RKF1001X
136	2007-007590	R659	82Kohm,1%,1/16W,DA,TP,1005	ERJ2RKF8202X
137	2007-007771	R319	0OHM,5%,1/16W,DA,TP,1005	RC1005J000CS
138	2007-007771	R401	0OHM,5%,1/16W,DA,TP,1005	RC1005J000CS
139	2007-007771	R733	0OHM,5%,1/16W,DA,TP,1005	RC1005J000CS
140	2007-007771	R734	0OHM,5%,1/16W,DA,TP,1005	RC1005J000CS
141	2007-007771	R739	0OHM,5%,1/16W,DA,TP,1005	RC1005J000CS
142	2007-008117	R594	2.7Kohm,1%,1/16W,DA,TP,1005	ERJ2RKF2701X
143	2011-001344	R320	100ohm,5%,1/16W,L,CHIP,8P,TP	EXB28V101JX
144	2011-001344	R485	100ohm,5%,1/16W,L,CHIP,8P,TP	EXB28V101JX
145	2011-001345	R449	10Kohm,5%,1/16W,L,CHIP,8P,TP	EXB28V103JX
146	2203-000233	C144	0.1nF,5%,50V,NP0,TP,1005	CM05CG101J50AH
147	2203-000233	C305	0.1nF,5%,50V,NP0,TP,1005	CM05CG101J50AH
148	2203-000233	C452	0.1nF,5%,50V,NP0,TP,1005	CM05CG101J50AH
149	2203-000233	C453	0.1nF,5%,50V,NP0,TP,1005	CM05CG101J50AH
150	2203-000233	C454	0.1nF,5%,50V,NP0,TP,1005	CM05CG101J50AH
151	2203-000233	C455	0.1nF,5%,50V,NP0,TP,1005	CM05CG101J50AH
152	2203-000233	C718	0.1nF,5%,50V,NP0,TP,1005	CM05CG101J50AH
153	2203-000233	C719	0.1nF,5%,50V,NP0,TP,1005	CM05CG101J50AH
154	2203-000233	C764	0.1nF,5%,50V,NP0,TP,1005	CM05CG101J50AH
155	2203-000254	C101	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
156	2203-000254	C102	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
157	2203-000254	C123	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
158	2203-000254	C210	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
159	2203-000254	C238	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
160	2203-000254	C307	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
161	2203-000254	C309	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
162	2203-000254	C313	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH

NO	SEC CODE	Reference	Part Description	Vendor Part No.
163	2203-000254	C319	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
164	2203-000254	C326	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
165	2203-000254	C331	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
166	2203-000254	C335	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
167	2203-000254	C354	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
168	2203-000254	C434	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
169	2203-000254	C440	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
170	2203-000254	C449	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
171	2203-000254	C536	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
172	2203-000254	C587	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
173	2203-000254	C712	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
174	2203-000254	C744	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
175	2203-000254	C745	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
176	2203-000254	C762	10nF,10%,16V,X7R,TP,1005,-	CM05X7R103K16AH
177	2203-000278	C206	0.01nF,0.5pF,50V,NP0,TP,1005	CM05CG100D50AH
178	2203-000278	C235	0.01nF,0.5pF,50V,NP0,TP,1005	CM05CG100D50AH
179	2203-000278	C239	0.01nF,0.5pF,50V,NP0,TP,1005	CM05CG100D50AH
180	2203-000359	C212	0.15nF,5%,50V,NP0,TP,1005	CM05CG151J50AH
181	2203-000438	C138	1nF,10%,50V,X7R,TP,1005,-	CM05X7R102K50AH
182	2203-000438	C211	1nF,10%,50V,X7R,TP,1005,-	CM05X7R102K50AH
183	2203-000438	C227	1nF,10%,50V,X7R,TP,1005,-	CM05X7R102K50AH
184	2203-000438	C229	1nF,10%,50V,X7R,TP,1005,-	CM05X7R102K50AH
185	2203-000438	C230	1nF,10%,50V,X7R,TP,1005,-	CM05X7R102K50AH
186	2203-000438	C240	1nF,10%,50V,X7R,TP,1005,-	CM05X7R102K50AH
187	2203-000438	C261	1nF,10%,50V,X7R,TP,1005,-	CM05X7R102K50AH
188	2203-000438	C556	1nF,10%,50V,X7R,TP,1005,-	CM05X7R102K50AH
189	2203-000438	C557	1nF,10%,50V,X7R,TP,1005,-	CM05X7R102K50AH
190	2203-000438	C562	1nF,10%,50V,X7R,TP,1005,-	CM05X7R102K50AH
191	2203-000438	C580	1nF,10%,50V,X7R,TP,1005,-	CM05X7R102K50AH
192	2203-000585	C110	220pF,10%,50V,X7R,TP,1005,-	CM05X7R221K50AH
193	2203-000585	C111	220pF,10%,50V,X7R,TP,1005,-	CM05X7R221K50AH
194	2203-000585	C112	220pF,10%,50V,X7R,TP,1005,-	CM05X7R221K50AH
195	2203-000585	C114	220pF,10%,50V,X7R,TP,1005,-	CM05X7R221K50AH
196	2203-000609	C203	22nF,10%,50V,X7R,TP,2012	CL21B223KBNC
197	2203-000628	C237	0.022nF,5%,50V,NP0,TP,1005	CM05CG220J50AH
198	2203-000679	C200	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
199	2203-000679	C232	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
200	2203-000679	C262	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
201	2203-000679	C540	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
202	2203-000679	C555	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
203	2203-000679	C569	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
204	2203-000679	C586	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH

NO	SEC CODE	Reference	Part Description	Vendor Part No.
205	2203-000679	C740	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
206	2203-000679	C741	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
207	2203-000679	C743	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
208	2203-000679	C752	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
209	2203-000679	C765	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
210	2203-000679	C766	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
211	2203-000679	C768	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
212	2203-000679	C770	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
213	2203-000679	C771	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
214	2203-000679	C772	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
215	2203-000696	C582	0.002nF,0.25pF,50V,NP0,TP,1005	CM05CG2R0C50AH
216	2203-000697	C773	0.002nF,0.25pF,50V,NP0,TP,1608	CL10C020CBNC
217	2203-000812	C143	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
218	2203-000812	C204	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
219	2203-000812	C217	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
220	2203-000812	C234	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
221	2203-000812	C263	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
222	2203-000812	C264	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
223	2203-000812	C310	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
224	2203-000812	C311	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
225	2203-000812	C312	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
226	2203-000812	C327	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
227	2203-000812	C330	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
228	2203-000812	C437	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
229	2203-000812	C438	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
230	2203-000812	C439	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
231	2203-000812	C441	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
232	2203-000812	C442	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
233	2203-000812	C443	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
234	2203-000812	C448	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
235	2203-000812	C460	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
236	2203-000812	C664	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
237	2203-000812	C758	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
238	2203-000812	C763	0.033nF,5%,50V,NP0,TP,1005	CM05CG330J50AH
239	2203-000854	C244	0.039nF,5%,50V,NP0,TP,1005	CM05CG390J50AH
240	2203-000854	C698	0.039nF,5%,50V,NP0,TP,1005	CM05CG390J50AH
241	2203-000854	C699	0.039nF,5%,50V,NP0,TP,1005	CM05CG390J50AH
242	2203-000872	C538	0.003nF,0.25pF,50V,NP0,TP,1608	CL10C030CBNC
243	2203-000995	C400	0.047nF,5%,50V,NP0,TP,1005	CM05CG470J50AH
244	2203-000995	C401	0.047nF,5%,50V,NP0,TP,1005	CM05CG470J50AH
245	2203-001072	C447	0.056nF,5%,50V,NP0,TP,1005	CM05CG560J50AH
246	2203-001153	C215	0.068nF,5%,50V,NP0,TP,1005	CM05CG680J50AH

NO	SEC CODE	Reference	Part Description	Vendor Part No.
247	2203-001153	C494	0.068nF,5%,50V,NP0,TP,1005	CM05CG680J50AH
248	2203-002525	C126	0.56nF,10%,50V,X7R,TP,1005	CM05X7R561K50AH
249	2203-002525	C137	0.56nF,10%,50V,X7R,TP,1005	CM05X7R561K50AH
250	2203-002525	C481	0.56nF,10%,50V,X7R,TP,1005	CM05X7R561K50AH
251	2203-002668	C214	0.0005nF,0.1pF,50V,NP0,TP,1005	C1005C0G1H0R5BT
252	2203-003054	C329	0.009nF,0.25pF,50V,NP0,TP,1005	CM05CG9R0C50AH
253	2203-003054	C444	0.009nF,0.25pF,50V,NP0,TP,1005	CM05CG9R0C50AH
254	2203-003054	C445	0.009nF,0.25pF,50V,NP0,TP,1005	CM05CG9R0C50AH
255	2203-003054	C539	0.009nF,0.25pF,50V,NP0,TP,1005	CM05CG9R0C50AH
256	2203-003054	C757	0.009nF,0.25pF,50V,NP0,TP,1005	CM05CG9R0C50AH
257	2203-005050	C242	0.0018nF,0.25pF,50V,NP0,TP,1005	CM05CG1R8C50AH
258	2203-005050	C600	0.0018nF,0.25pF,50V,NP0,TP,1005	CM05CG1R8C50AH
259	2203-005052	C213	0.0033nF,0.25pF,50V,NP0,TP,1005	CM05CG3R3C50AH
260	2203-005061	C106	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
261	2203-005061	C107	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
262	2203-005061	C301	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
263	2203-005061	C332	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
264	2203-005061	C427	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
265	2203-005061	C534	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
266	2203-005061	C545	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
267	2203-005061	C578	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
268	2203-005061	C588	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
269	2203-005061	C597	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
270	2203-005061	C701	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
271	2203-005061	C706	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
272	2203-005061	C711	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
273	2203-005065	C108	1000nF,+80-20%,10V,Y5V,TP,1608	CL10F105ZONC
274	2203-005065	C125	1000nF,+80-20%,10V,Y5V,TP,1608	CL10F105ZONC
275	2203-005065	C318	1000nF,+80-20%,10V,Y5V,TP,1608	CL10F105ZONC
276	2203-005065	C403	1000nF,+80-20%,10V,Y5V,TP,1608	CL10F105ZONC
277	2203-005065	C705	1000nF,+80-20%,10V,Y5V,TP,1608	CL10F105ZONC
278	2203-005065	C748	1000nF,+80-20%,10V,Y5V,TP,1608	CL10F105ZONC
279	2203-005065	C749	1000nF,+80-20%,10V,Y5V,TP,1608	CL10F105ZONC
280	2203-005234	C575	0.0012nF,0.25pF,50V,NP0,TP,1005	CM05CG1R2C50AH
281	2203-005234	C596	0.0012nF,0.25pF,50V,NP0,TP,1005	CM05CG1R2C50AH
282	2203-005382	C248	0.006nF,0.1pF,50V,NP0,TP,1005	GRP1555C1H6R0BZ01E
283	2203-005383	C753	7pF,0.1pF,50V,NPO,TP,1005,-	GRP1555C1H7R0BZ01E
284	2203-005383	C754	7pF,0.1pF,50V,NPO,TP,1005,-	GRP1555C1H7R0BZ01E
285	2203-005383	C755	7pF,0.1pF,50V,NPO,TP,1005,-	GRP1555C1H7R0BZ01E
286	2203-005446	C413	0.0027nF,0.1pF,50V,NP0,TP,1005	GRP1555C1H2R7BZ01E
287	2203-005446	C721	0.0027nF,0.1pF,50V,NP0,TP,1005	GRP1555C1H2R7BZ01E
288	2203-005480	C450	33nF,10%,10V,X7R,TP,1005,-	CM05X7R333K10AH

NO	SEC CODE	Reference	Part Description	Vendor Part No.
289	2203-005480	C451	33nF,10%,10V,X7R,TP,1005,-	CM05X7R333K10AH
290	2203-005481	C459	47nF,10%,10V,X7R,TP,1005,-	CM05X7R473K10AH
291	2203-005482	C746	100nF,10%,10V,X5R,TP,1005,-	GRM36X5R104K10PT
292	2203-005482	C751	100nF,10%,10V,X5R,TP,1005,-	GRM36X5R104K10PT
293	2203-005503	C456	0.18nF,5%,25V,NP0,TP,1005	CL05C181JANC
294	2203-005503	C457	0.18nF,5%,25V,NP0,TP,1005	CL05C181JANC
295	2203-005552	C727	0.0022nF,0.1pF,50V,NP0,TP,1005	C1005C0G1H2R2BT
296	2301-001232	C202	470pF,5%,50V,TP,2012,-	ECHU1H471JX5
297	2404-001020	C117	10uF,20%,10V,GP,TP,3216,3.2	TAJA106M010R
298	2404-001020	C710	10uF,20%,10V,GP,TP,3216,3.2	TAJA106M010R
299	2404-001105	C105	10UF,20%,6.3V,GP,TP,2012	TCSCS0J106MPAR
300	2404-001105	C124	10UF,20%,6.3V,GP,TP,2012	TCSCS0J106MPAR
301	2404-001105	C145	10UF,20%,6.3V,GP,TP,2012	TCSCS0J106MPAR
302	2404-001105	C306	10UF,20%,6.3V,GP,TP,2012	TCSCS0J106MPAR
303	2404-001105	C328	10UF,20%,6.3V,GP,TP,2012	TCSCS0J106MPAR
304	2404-001105	C431	10UF,20%,6.3V,GP,TP,2012	TCSCS0J106MPAR
305	2404-001105	C535	10UF,20%,6.3V,GP,TP,2012	TCSCS0J106MPAR
306	2404-001105	C708	10UF,20%,6.3V,GP,TP,2012	TCSCS0J106MPAR
307	2404-001105	C750	10UF,20%,6.3V,GP,TP,2012	TCSCS0J106MPAR
308	2404-001134	C436	100UF,20%,6.3V,LZ,TP,4028	595D107X06R3B2T
309	2404-001134	C579	100UF,20%,6.3V,LZ,TP,4028	595D107X06R3B2T
310	2404-001162	C446	47uF,20%,4V,LZ,TP,3216	F950G476MAAJZTQ2
311	2404-001267	C249	220UF,20%,6.3V,-,TP,6032	TPSC227M006R0250
312	2703-001441	L599	5.6nH,0.3nH,1.6x0.8x0.8mm	LL1608-FH5N6S
313	2703-001729	L594	1.8nH,0.3nH,1x0.5x0.5mm	LL1005-FH1N8S
314	2703-001737	L595	2.7nH,0.3nH,1x0.5x0.5mm	LL1005-FH2N7S
315	2703-001750	L402	2.2NH,0.3NH,1.0X0.5X0.5MM	LL1005-FH2N2S
316	2703-001752	U624	39nH,5%,1.0x0.5x0.5mm	LL1005-FH39NJ
317	2703-001786	L404	10NH,5%,1.0X0.5X0.5MM	LL1005-FH10NJ
318	2703-001909	L606	2.2nH,0.3nH,1.6x0.8x0.8mm	LL1608-FH2N2S
319	2703-001943	L600	10nH,5%,1.0x0.5x0.5mm	HK1005-10NJ-T
320	2703-001950	L204	12nH,10%,1.0x0.5x0.5mm	HK1005-12NK-T
321	2703-001950	L596	12nH,10%,1.0x0.5x0.5mm	HK1005-12NK-T
322	2703-001952	L209	8.2nH,5%,1.0x0.5x0.5mm	HK1005-8N2J-T
323	2703-001952	L211	8.2nH,5%,1.0x0.5x0.5mm	HK1005-8N2J-T
324	2703-001952	L597	8.2nH,5%,1.0x0.5x0.5mm	HK1005-8N2J-T
325	2703-001969	L218	8.2nH,10%,1.0x0.5x0.5mm	HK1005-8N2K-T
326	2703-002267	L406	4.7NH,0.3NH,1.0X0.5X0.5MM	CIH05T4N7SNC
327	2703-002308	L201	68NH,5%,1.0X0.5X0.5MM	CIH05T68NJNC
328	2703-002309	L200	82NH,5%,1.0X0.5X0.5MM	CIH05T82NJNC
329	2703-002314	L212	47NH,5%,1.0X0.5X0.5MM	CIH05T47NJNC
330	2703-002314	L213	47NH,5%,1.0X0.5X0.5MM	CIH05T47NJNC

NO	SEC CODE	Reference	Part Description	Vendor Part No.
331	2801-003856	X1	0.032768MHZ,20PPM,28-ACP,7PF,65KOHM,TP	MC-146
332	2806-001266	U200	1880MHZ,-,-,TP,2.8V,-	VOF1880C28KRA
333	2809-001254	U100	13MHZ,3PPM,10KOHM//10PF,TP,3V,2MA	TOA1300VAI4KRA
334	2901-001230	E200	50V,0.3A,-,470PF,2.0X1.25X0.85MM,TP	EMIC21B471MBNC
335	2904-001331	F200	225MHZ,-,-,TP,-,-	SFH225CG001
336	2904-001334	F203	1.96GHZ,-,1930~1990MHZ/1.0DB,TP,1930~1990MHZ/2.4DB,-	SFDG60WC001
337	2904-001334	F204	1.96GHZ,-,1930~1990MHZ/1.0DB,TP,1930~1990MHZ/2.4DB,-	SFDG60WC001
338	2909-001164	U203	1.99GHZ,1.85GHZ,1.5/1.65DB,TP,-,-	LMG002S-5029A
339	3301-001120	L602	AB,30ohm,2x1.25x0.85mm,3000mA,TP,FERRITE,0.015ohm	BLM21PG300SN1D
340	3301-001362	L604	AB,1kohm,1x0.5x0.5mm,50mA,TP,FERRITE,1.5ohm	BLM15AG102PN1D
341	3705-001226	CN1	MCX,JACK,75MOHM,50OHM,0.45DB	KMS-157
342	3709-001088	J402	6P,2.54mm,SMD-S,AU	2-1483271-2
343	3710-001105	M1	2P,1R,1.27mm,SMD-S,AU	24-8005-002-100-867
344	3710-001595	J403	18P,1R,0.5mm,SMD-A,AUF	1004-0018-304
345	3722-001587	U400	6P,2.6PI,AG,BLK,-	02-828D0-53BKA
346	4302-001119	BAT1	3V,0.1MAH,-,-,3.1V,-	RB414II06N
347	4709-001214	U622	880-915MHZ,19.5+-1dB,13dB,2.0X1.25X0.7mm,TP	DCS214E-0897
348	4709-001243	U623	1850-1910MHZ,14.8+-1DB,-,2X1.25X0.7MM,TP	DCS214A-1880
349	GH61-00019A	A200	SGH-N105,BE-CU,-,-,-,-,-,GLD,-,-	-

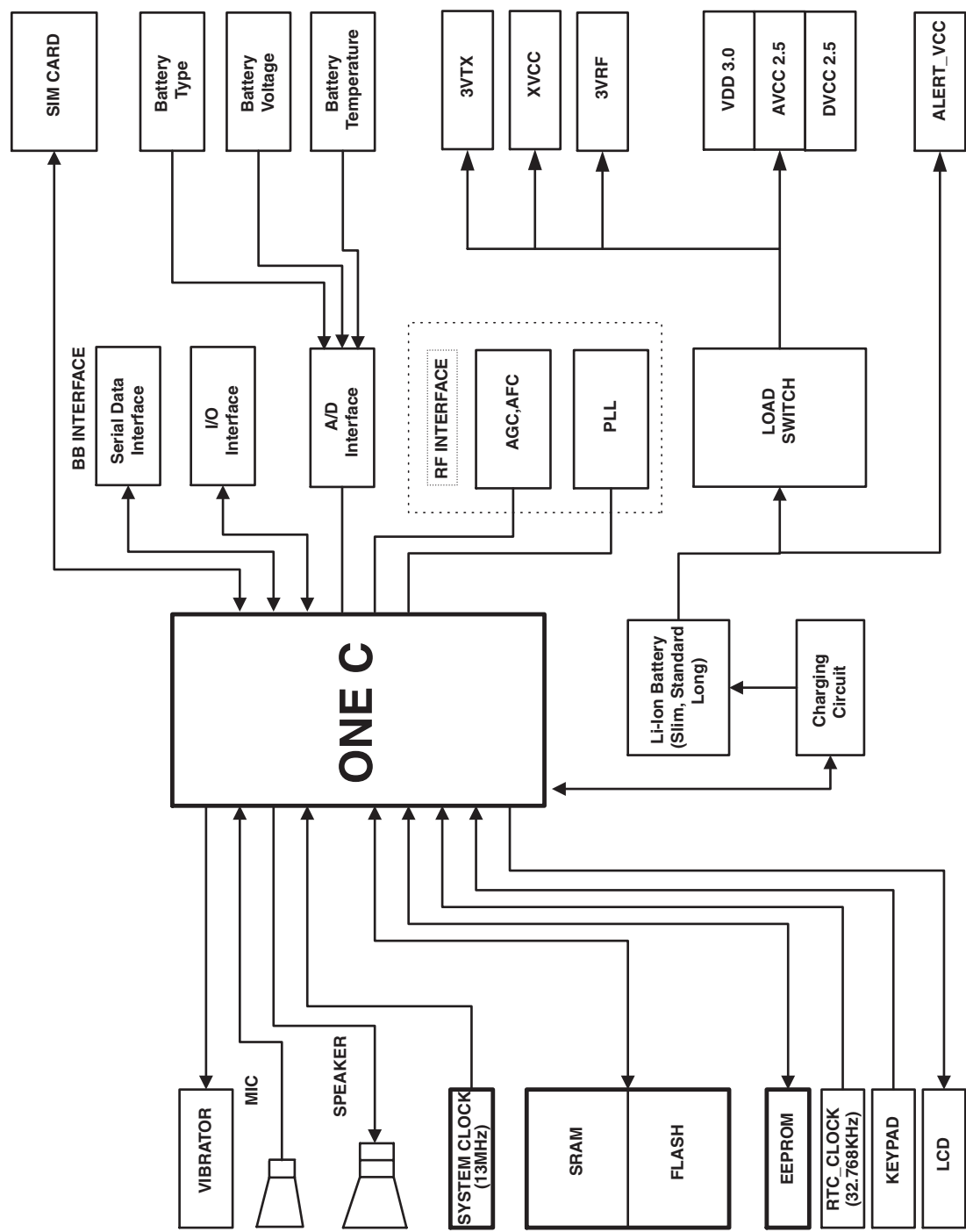
3-2 Main Parts List Bottom

NO	SEC CODE	Reference	Part Description	Vendor Part No.
1	0406-001083	ZD3	-,6.1/-/7.2V,150W,SOT-323-5L	ESDA6V1W5
2	0407-001002	D302	DAN222,80V,300mA,CA2-3,EM3,TP	DAN222TL
3	0501-002011	Q300	2SD2114K,NPN,200mW,SOT-23,TP,8	2SD2114KT146V
4	0504-001012	U209	DTC114YE,NPN,150MW,10K/47K,EMT3,TP	DTC114YE
5	0504-001058	U492	RN4985,NPN/PNP,200mW,2.2Kohm/47Kohm,UMD6,TP	RN4985(TE85L)
6	0504-001058	U493	RN4985,NPN/PNP,200mW,2.2Kohm/47Kohm,UMD6,TP	RN4985(TE85L)
7	0504-001058	U204	RN4985,NPN/PNP,200mW,2.2Kohm/47Kohm,UMD6,TP	RN4985(TE85L)
8	0601-001402	LED1	CHIP,RED/Y-GRN,1.2x1.5mm,660/570nm	CL-165HR/YG-D
9	0601-001547	LED2	CHIP,BLUE,1.1X0.8MM,468NM	SLS-NNBL102TS
10	0601-001547	D427	CHIP,BLUE,1.1X0.8MM,468NM	SLS-NNBL102TS
11	0601-001547	D428	CHIP,BLUE,1.1X0.8MM,468NM	SLS-NNBL102TS
12	0601-001547	D429	CHIP,BLUE,1.1X0.8MM,468NM	SLS-NNBL102TS
13	0601-001547	D430	CHIP,BLUE,1.1X0.8MM,468NM	SLS-NNBL102TS
14	0601-001547	D431	CHIP,BLUE,1.1X0.8MM,468NM	SLS-NNBL102TS
15	0601-001547	D432	CHIP,BLUE,1.1X0.8MM,468NM	SLS-NNBL102TS
16	0601-001547	D433	CHIP,BLUE,1.1X0.8MM,468NM	SLS-NNBL102TS
17	0601-001547	D434	CHIP,BLUE,1.1X0.8MM,468NM	SLS-NNBL102TS
18	1209-001379	U611	HD155173ANPEL,-,16P,-,3.4V,240MW,-25TO+85C,TP	HD155173ANP
19	1405-001093	D411	14V,20A,1x0.5x0.6mm,TP	AVL 14K 02 200
20	1405-001093	D415	14V,20A,1x0.5x0.6mm,TP	AVL 14K 02 200
21	2007-000139	R725	220ohm,5%,1/16W,DA,TP,1005	RC1005J221CS
22	2007-000139	R746	220ohm,5%,1/16W,DA,TP,1005	RC1005J221CS
23	2007-000139	R748	220ohm,5%,1/16W,DA,TP,1005	RC1005J221CS
24	2007-000139	R572	220ohm,5%,1/16W,DA,TP,1005	RC1005J221CS
25	2007-000139	R573	220ohm,5%,1/16W,DA,TP,1005	RC1005J221CS
26	2007-000143	R305	4.7Kohm,5%,1/16W,DA,TP,1005	RC1005J472CS
27	2007-000148	R651	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
28	2007-000148	R424	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
29	2007-000148	R427	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
30	2007-000148	R238	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
31	2007-000148	R240	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
32	2007-000148	R241	10Kohm,5%,1/16W,DA,TP,1005	RC1005J103CS
33	2007-000162	R304	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
34	2007-000162	R422	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
35	2007-000162	R423	100Kohm,5%,1/16W,DA,TP,1005	RC1005J104CS
36	2007-000172	R740	10ohm,5%,1/16W,DA,TP,1005	RC1005J100CS
37	2007-000172	R741	10ohm,5%,1/16W,DA,TP,1005	RC1005J100CS
38	2007-000172	R742	10ohm,5%,1/16W,DA,TP,1005	RC1005J100CS
39	2007-000172	R743	10ohm,5%,1/16W,DA,TP,1005	RC1005J100CS
40	2007-000932	R574	470ohm,5%,1/16W,DA,TP,1005	RC1005J471CS
41	2007-000932	R745	470ohm,5%,1/16W,DA,TP,1005	RC1005J471CS
42	2007-000932	R747	470ohm,5%,1/16W,DA,TP,1005	RC1005J471CS

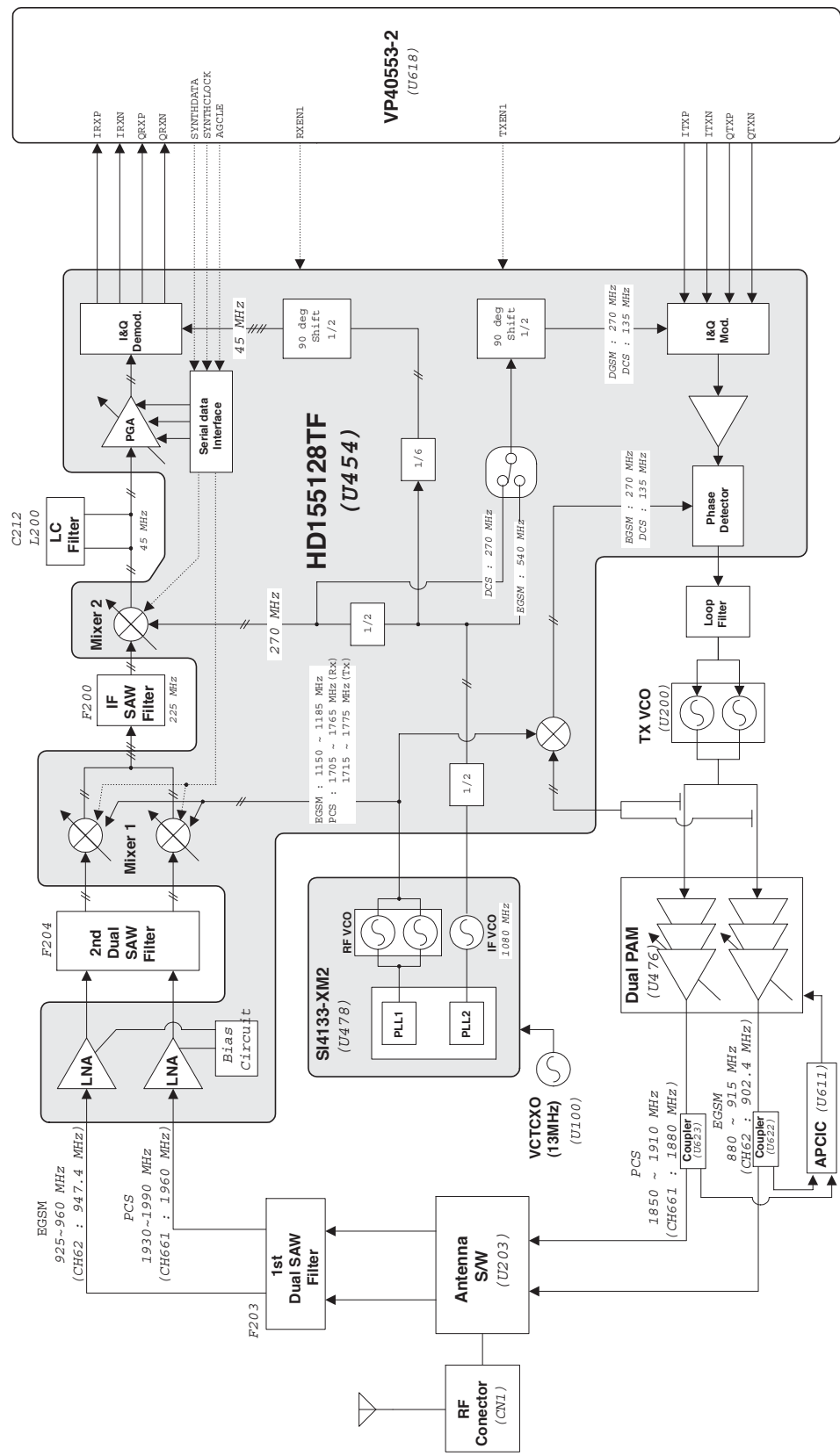
NO	SEC CODE	Reference	Part Description	Vendor Part No.
43	2007-000982	R624	5.6Kohm,5%,1/16W,DA,TP,1005	RC1005J562CS
44	2007-001217	R628	82ohm,5%,1/16W,DA,TP,1005	RC1005J820CS
45	2007-001217	R629	82ohm,5%,1/16W,DA,TP,1005	RC1005J820CS
46	2007-001305	R625	120ohm,5%,1/16W,DA,TP,1005	RC1005J121CS
47	2007-001311	R681	270ohm,5%,1/16W,DA,TP,1005	RC1005J271CS
48	2007-001313	R679	330ohm,5%,1/16W,DA,TP,1005	RC1005J331CS
49	2007-001313	R680	330ohm,5%,1/16W,DA,TP,1005	RC1005J331CS
50	2007-007142	R618	10Kohm,1%,1/16W,DA,TP,1005	ERJ2RKF103X
51	2007-007142	R617	10Kohm,1%,1/16W,DA,TP,1005	ERJ2RKF103X
52	2007-007311	R626	22Kohm,1%,1/16W,DA,TP,1005	ERJ2RKF2202X
53	2203-000233	C658	0.1nF,5%,50V,NP0,TP,1005	CM05CG101J50AH
54	2203-000311	C657	0.12nF,5%,50V,NP0,TP,1005	CM05CG121J50AH
55	2203-000438	C720	1nF,10%,50V,X7R,TP,1005,-	CM05X7R102K50AH
56	2203-000438	C270	1nF,10%,50V,X7R,TP,1005,-	CM05X7R102K50AH
57	2203-000654	C585	270pF,10%,50V,X7R,TP,1005,-	CM05X7R271K50AH
58	2203-000654	C655	270pF,10%,50V,X7R,TP,1005,-	CM05X7R271K50AH
59	2203-000679	C713	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
60	2203-000679	C665	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
61	2203-000679	C267	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
62	2203-000679	C269	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
63	2203-000679	C767	0.027nF,5%,50V,NP0,TP,1005	CM05CG270J50AH
64	2203-000854	C723	0.039nF,5%,50V,NP0,TP,1005	CM05CG390J50AH
65	2203-000854	C724	0.039nF,5%,50V,NP0,TP,1005	CM05CG390J50AH
66	2203-000995	C661	0.047nF,5%,50V,NP0,TP,1005	CM05CG470J50AH
67	2203-001017	C716	0.004nF,0.25pF,50V,NP0,TP,1005	CM05CG4R0C50AH
68	2203-001017	C759	0.004nF,0.25pF,50V,NP0,TP,1005	CM05CG4R0C50AH
69	2203-001017	C760	0.004nF,0.25pF,50V,NP0,TP,1005	CM05CG4R0C50AH
70	2203-005061	C308	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
71	2203-005061	C418	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
72	2203-005061	C419	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
73	2203-005061	C420	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
74	2203-005061	C421	100nF,+80-20%,16V,Y5V,TP,1005	CM05Y5V104Z16AH
75	2203-005065	C411	1000nF,+80-20%,10V,Y5V,TP,1608	CL10F105ZONC
76	2203-005065	C412	1000nF,+80-20%,10V,Y5V,TP,1608	CL10F105ZONC
77	2203-005065	C415	1000nF,+80-20%,10V,Y5V,TP,1608	CL10F105ZONC
78	2203-005065	C417	1000nF,+80-20%,10V,Y5V,TP,1608	CL10F105ZONC
79	2203-005065	C422	1000nF,+80-20%,10V,Y5V,TP,1608	CL10F105ZONC
80	2203-005065	C490	1000nF,+80-20%,10V,Y5V,TP,1608	CL10F105ZONC
81	2203-005444	C404	0.003nF,0.1pF,50V,NP0,TP,1005	CL05C030BBNC
82	2703-001986	L408	33nH,5%,1.0x0.5x0.5mm	MLK1005S33NJT
83	2703-001986	L409	33nH,5%,1.0x0.5x0.5mm	MLK1005S33NJT
84	3002-001098	BUZ300	94dB,3V,150mA,2700Hz,TP	BRT-03S

4. Block Diagrams

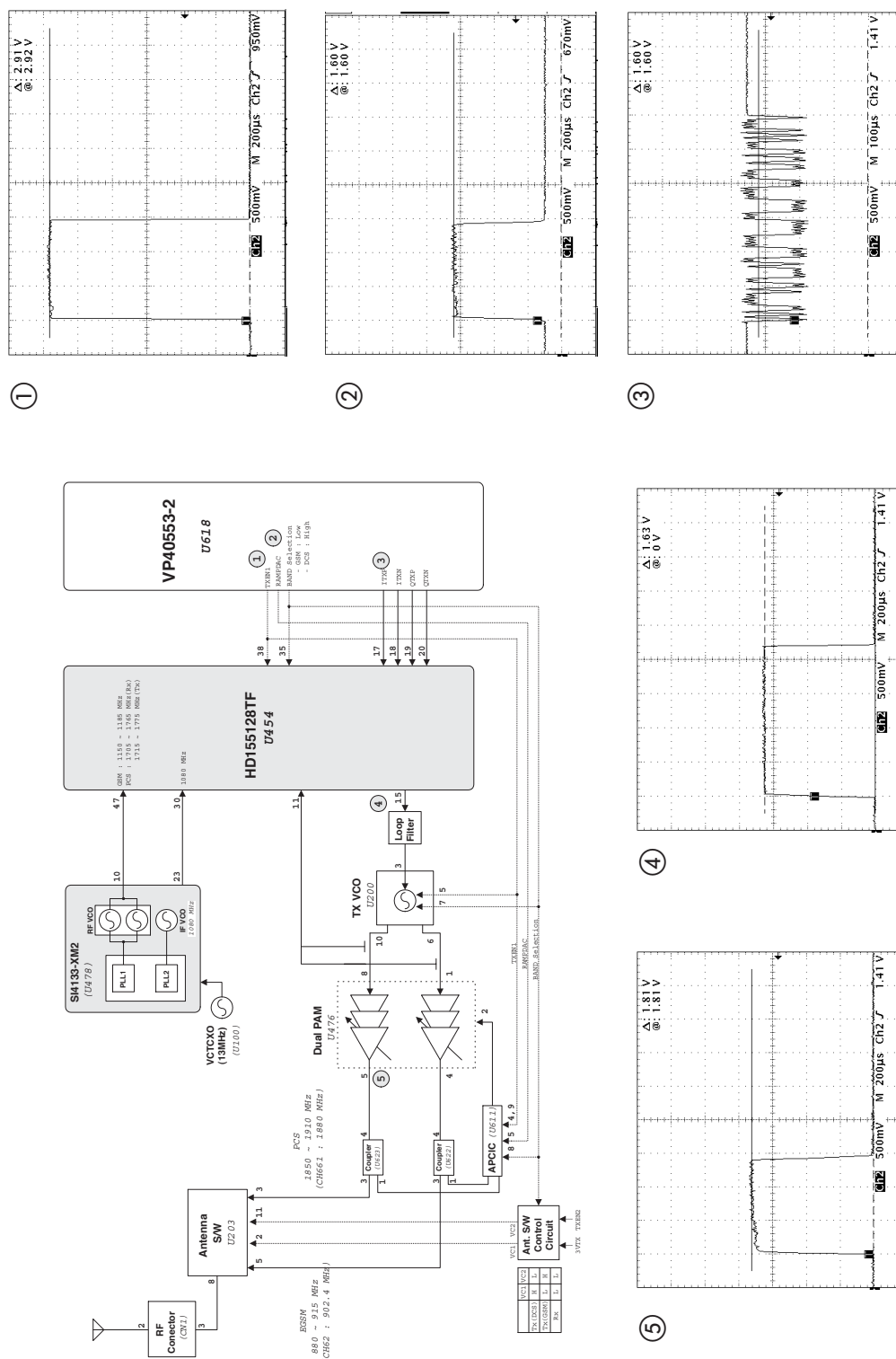
4-1 Main Baseband



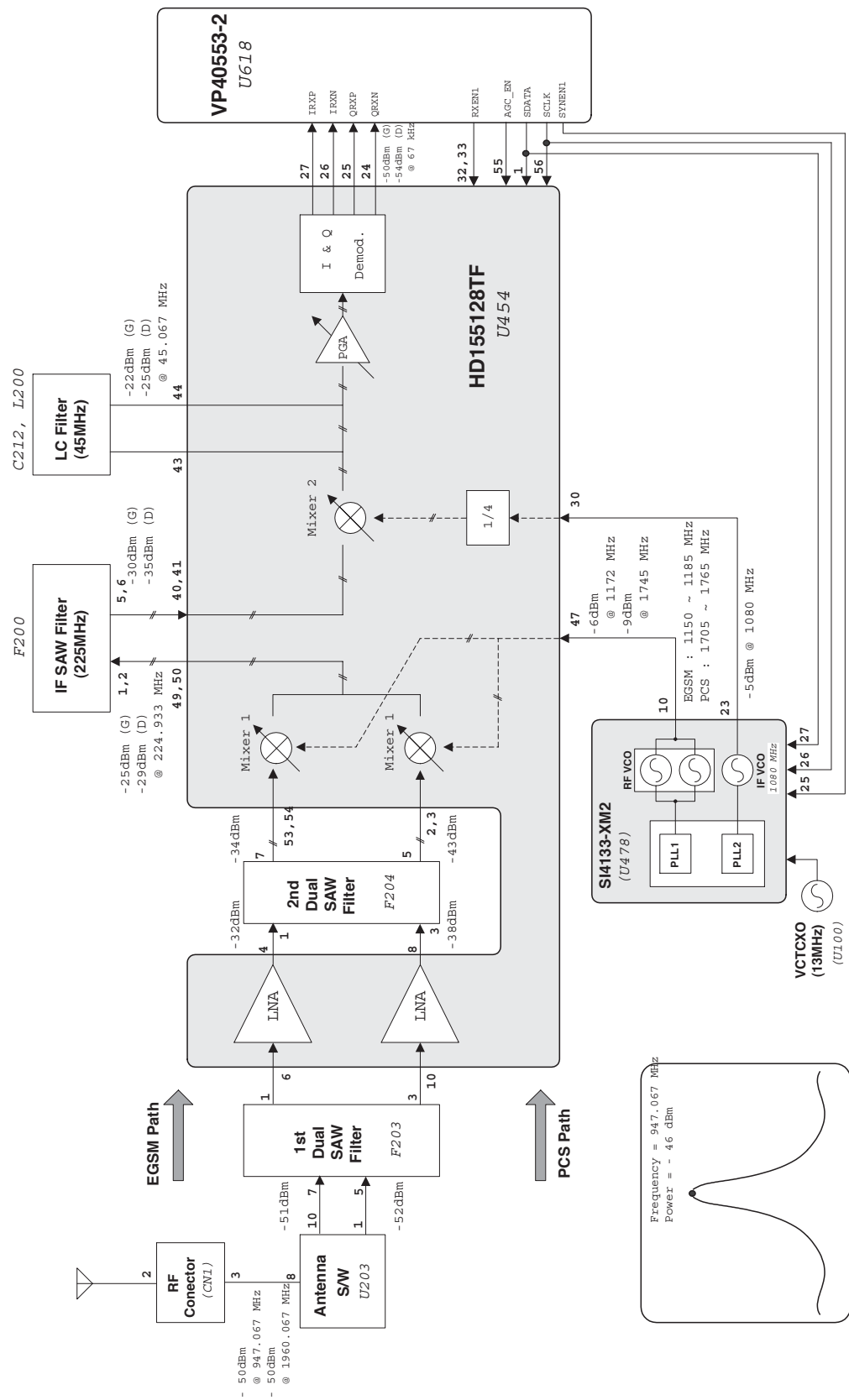
4-2 Main RF



4-2-1 RF Transmit Part

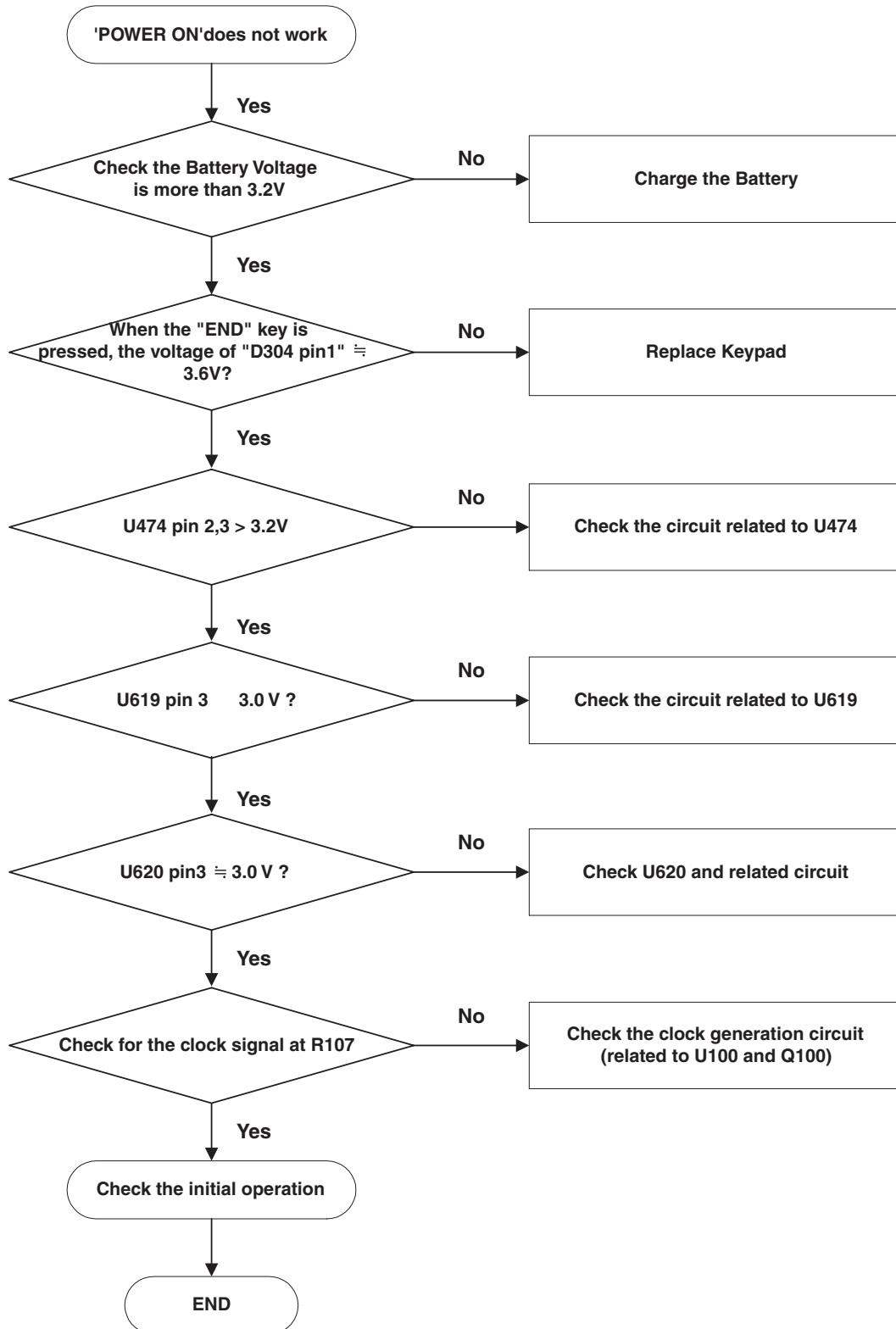


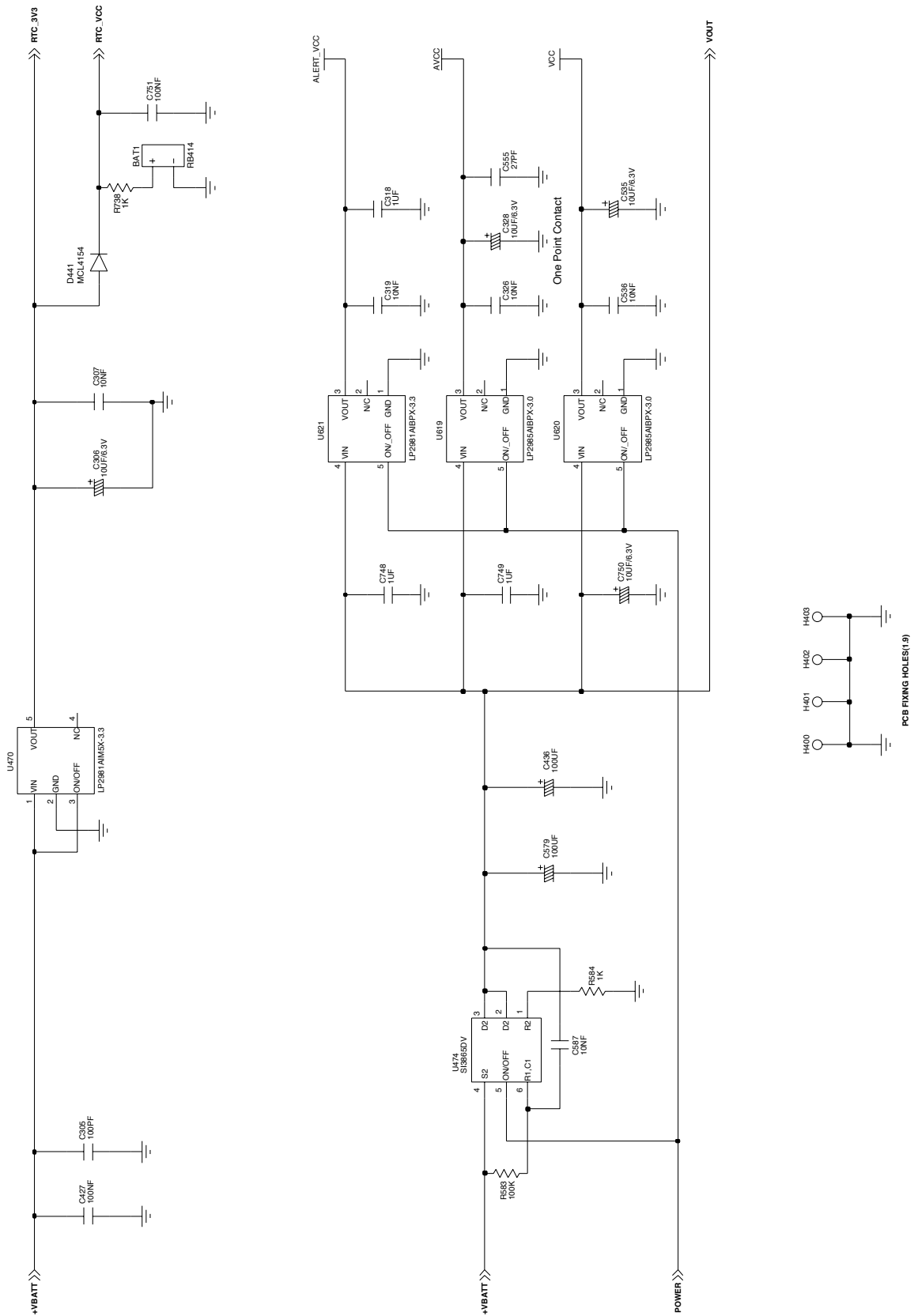
4-2-2 RF Receive Part



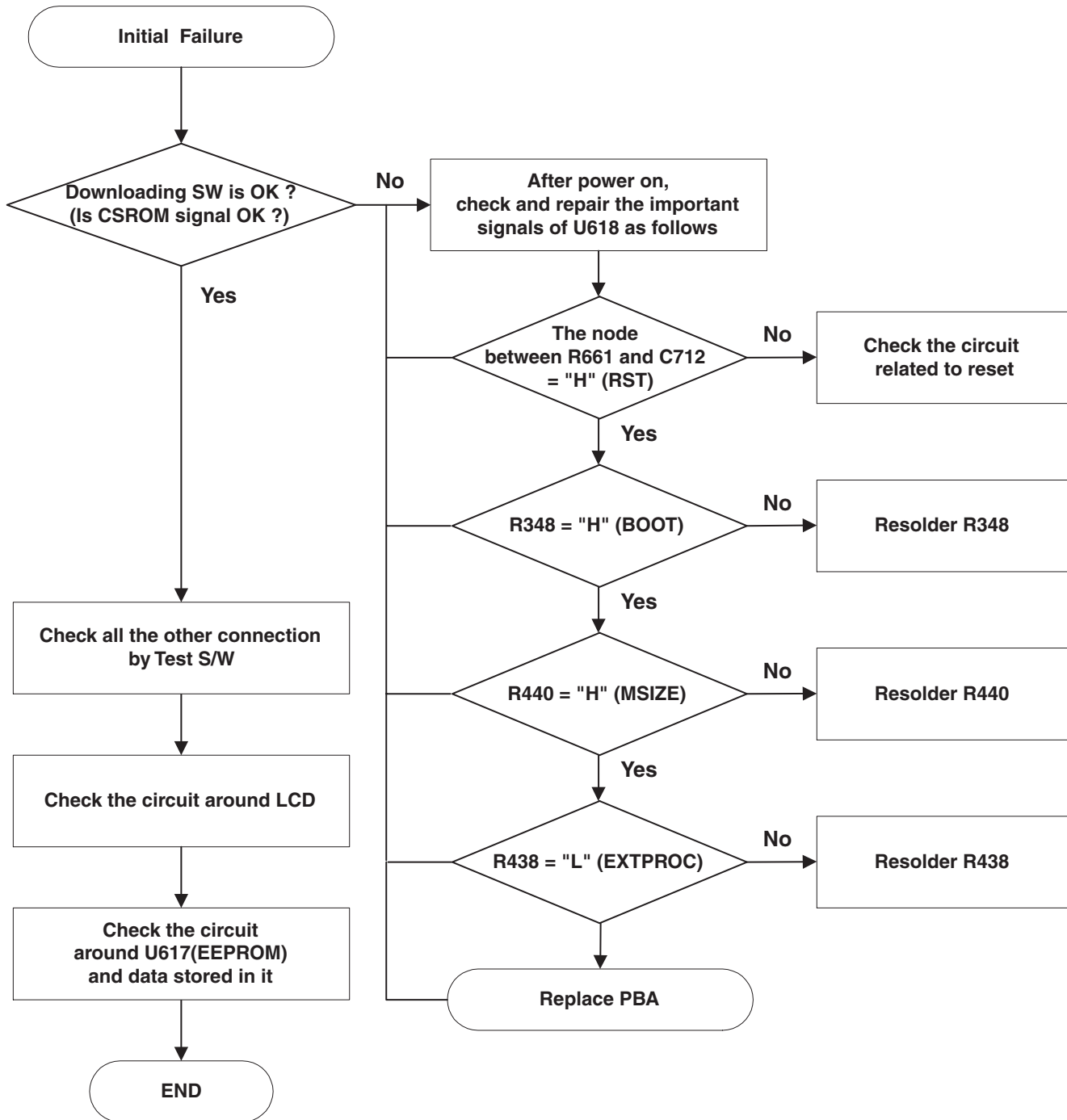
5. Flow Chart of Troubleshooting and Circuit Diagrams

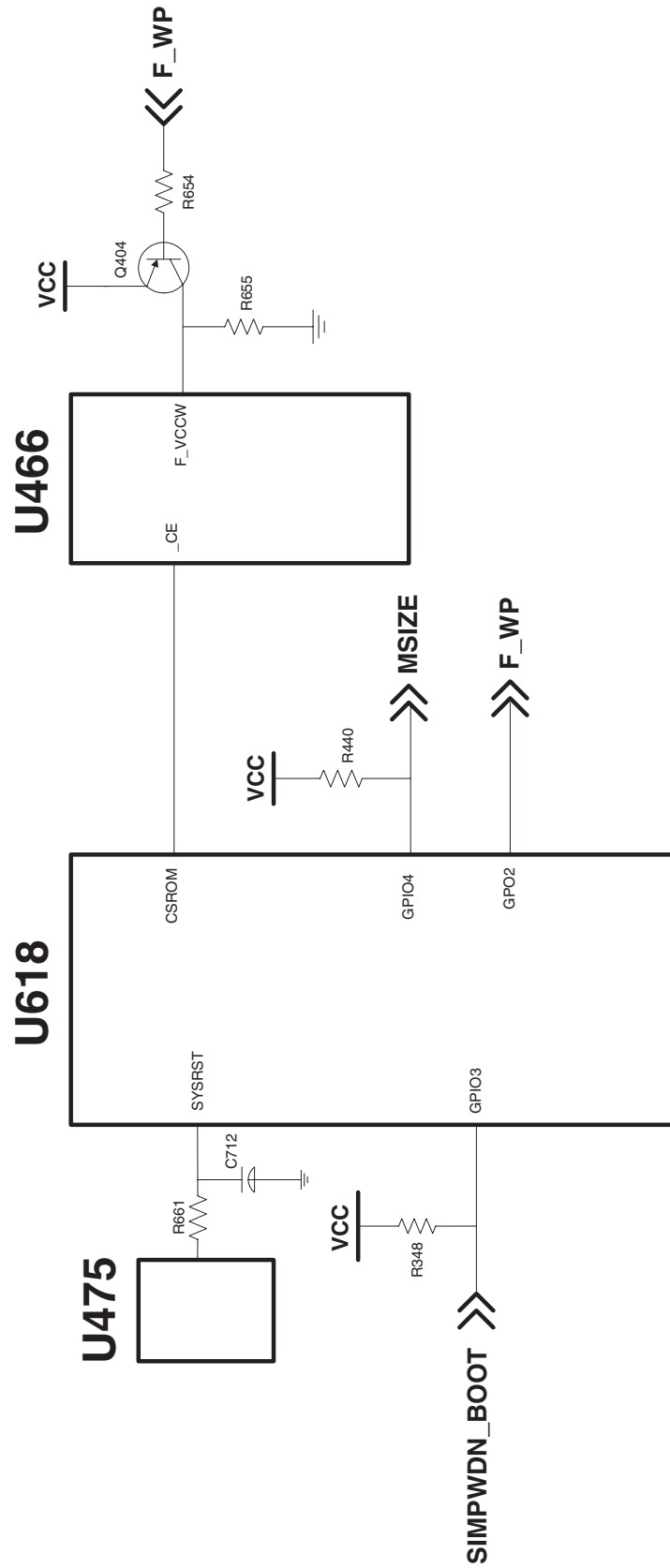
5-1 Power ON



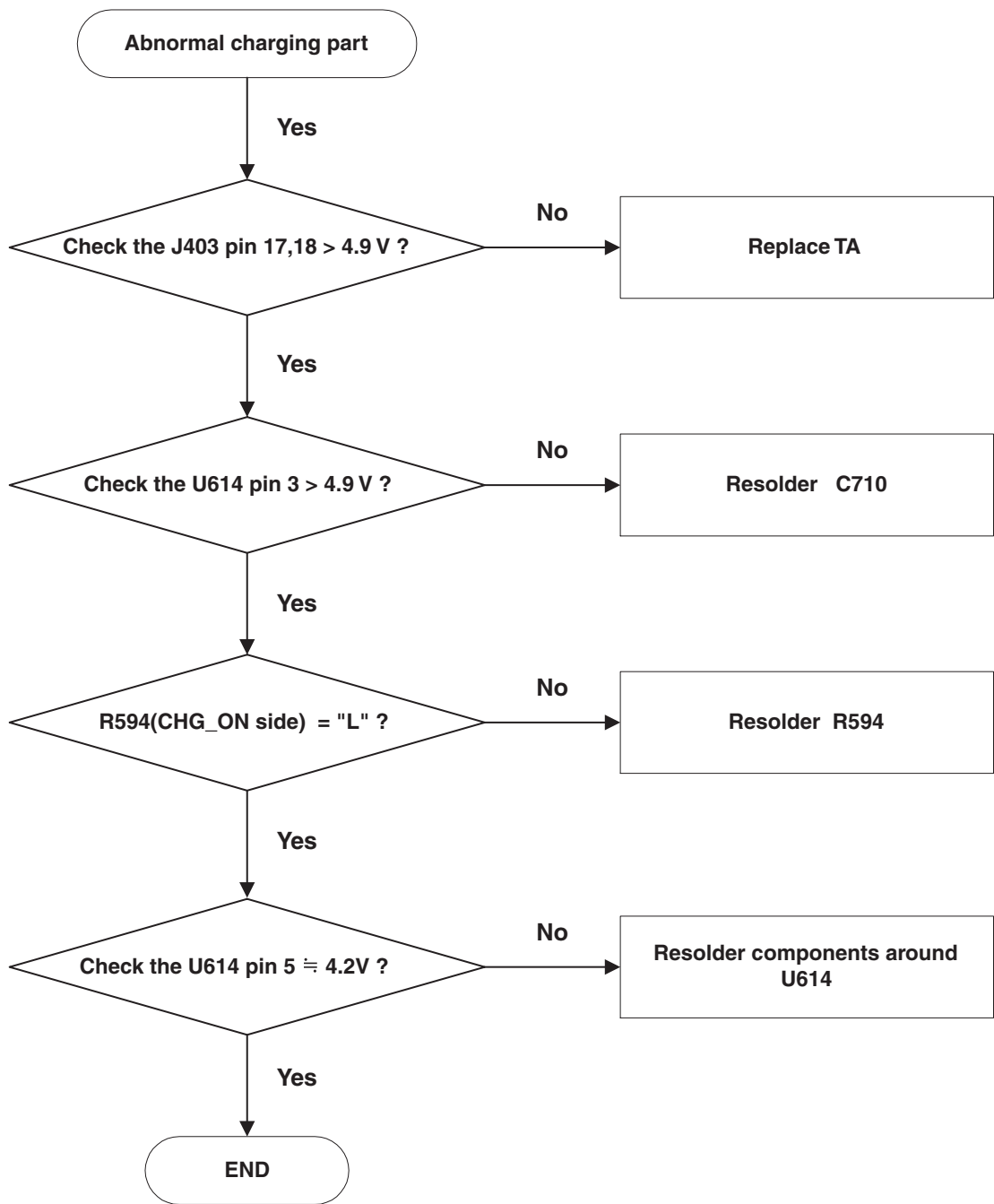


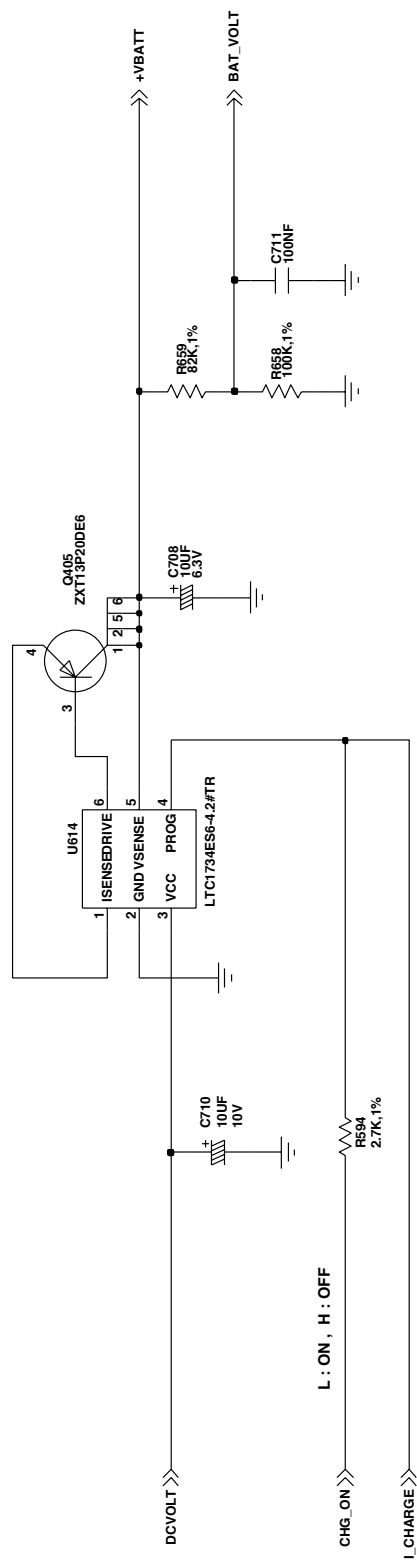
5-2 Initial



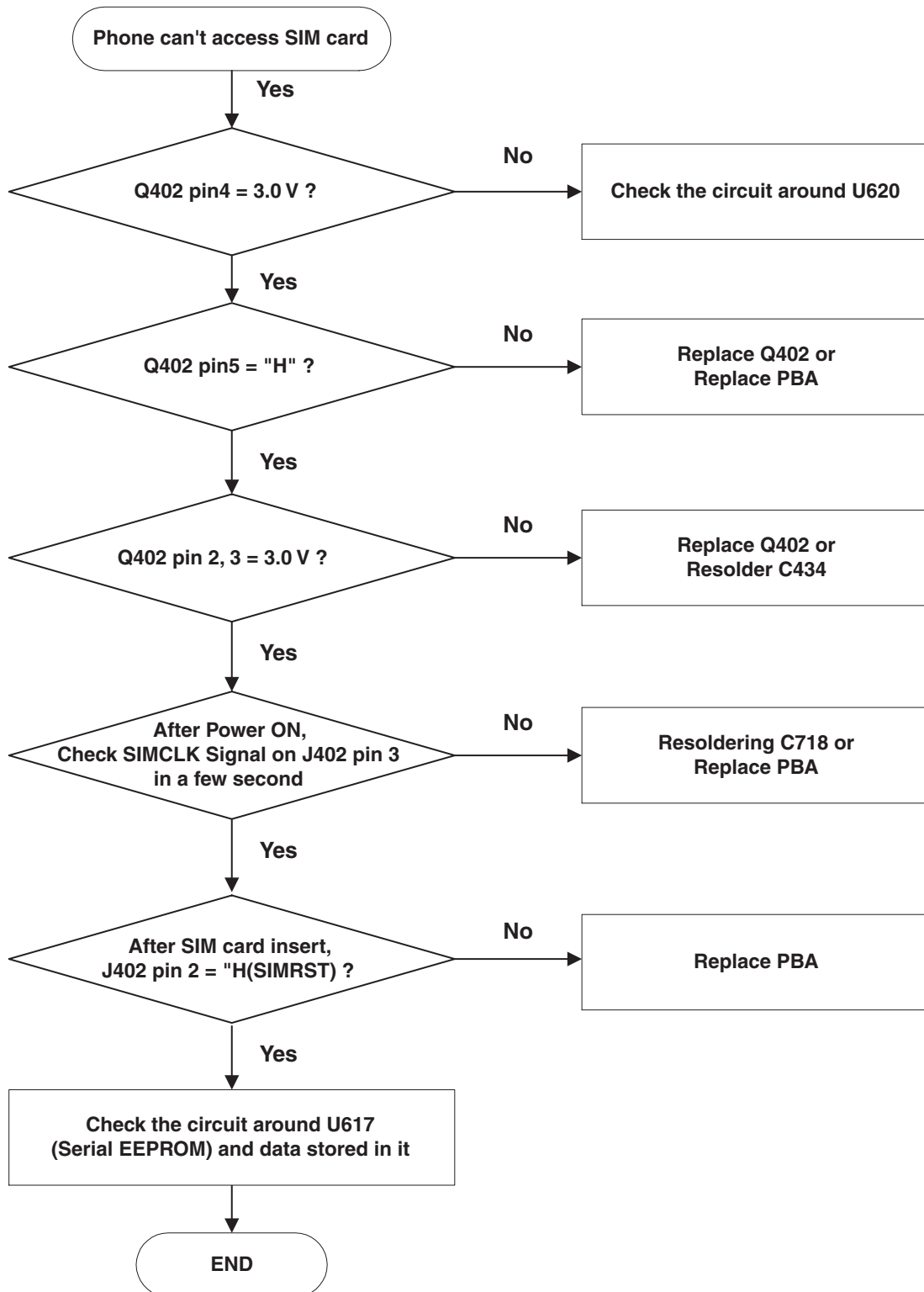


5-3 Charging Part

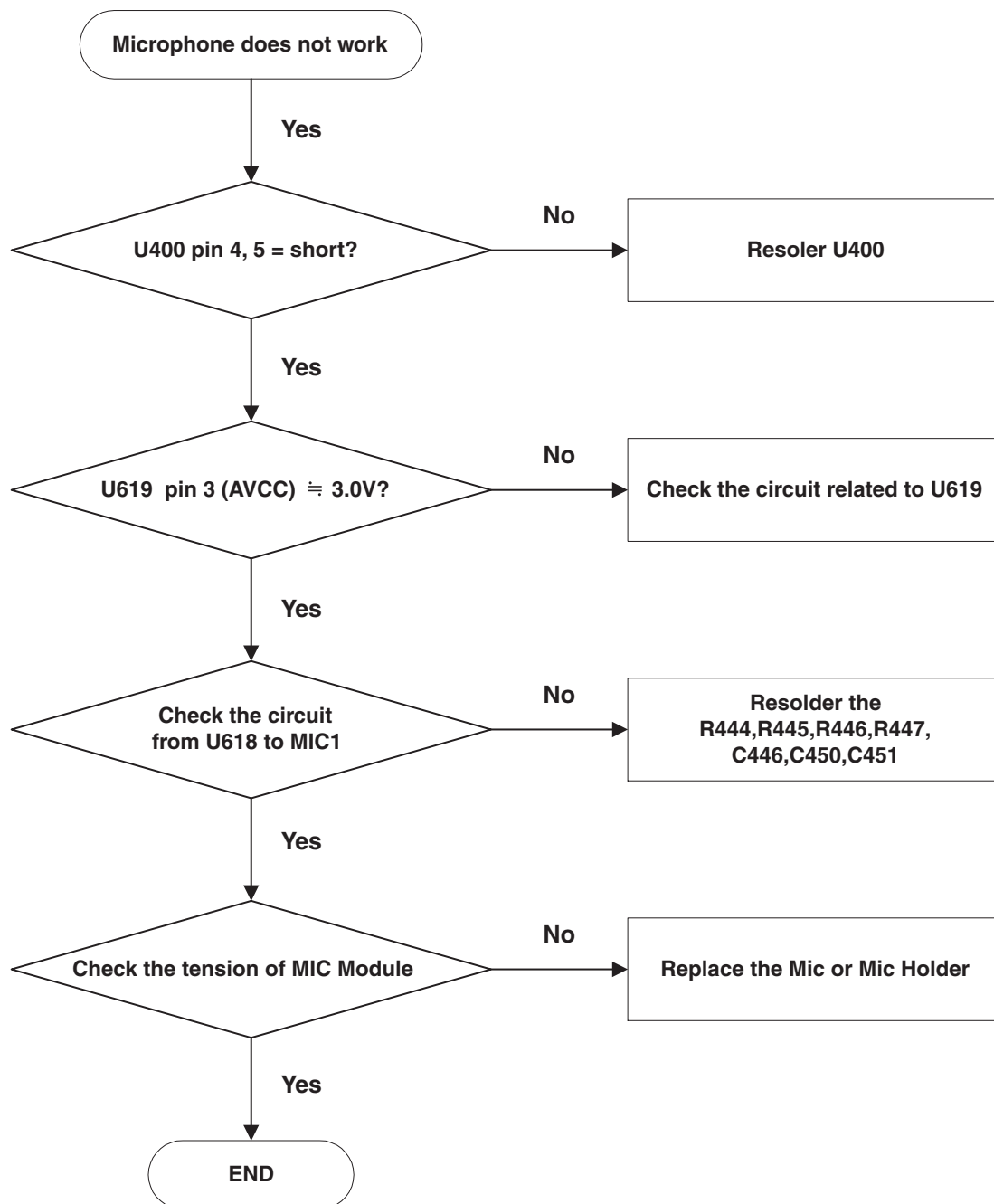


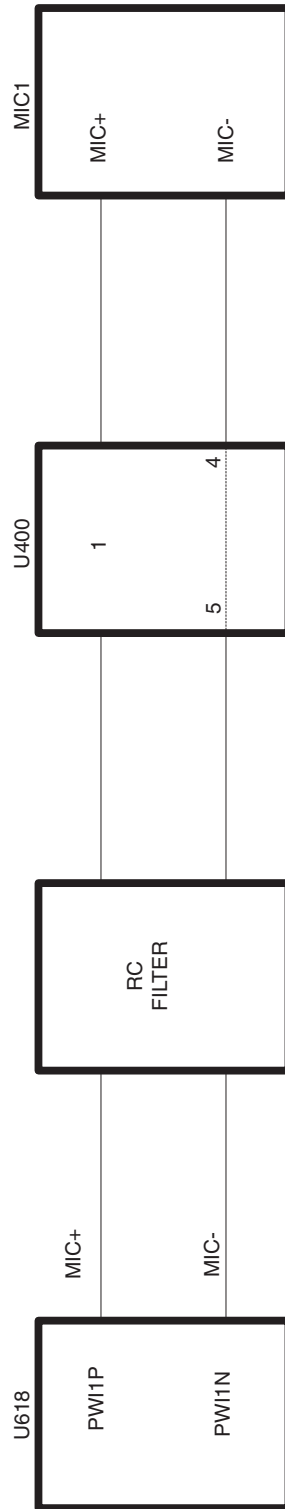


5-4 Sim Part

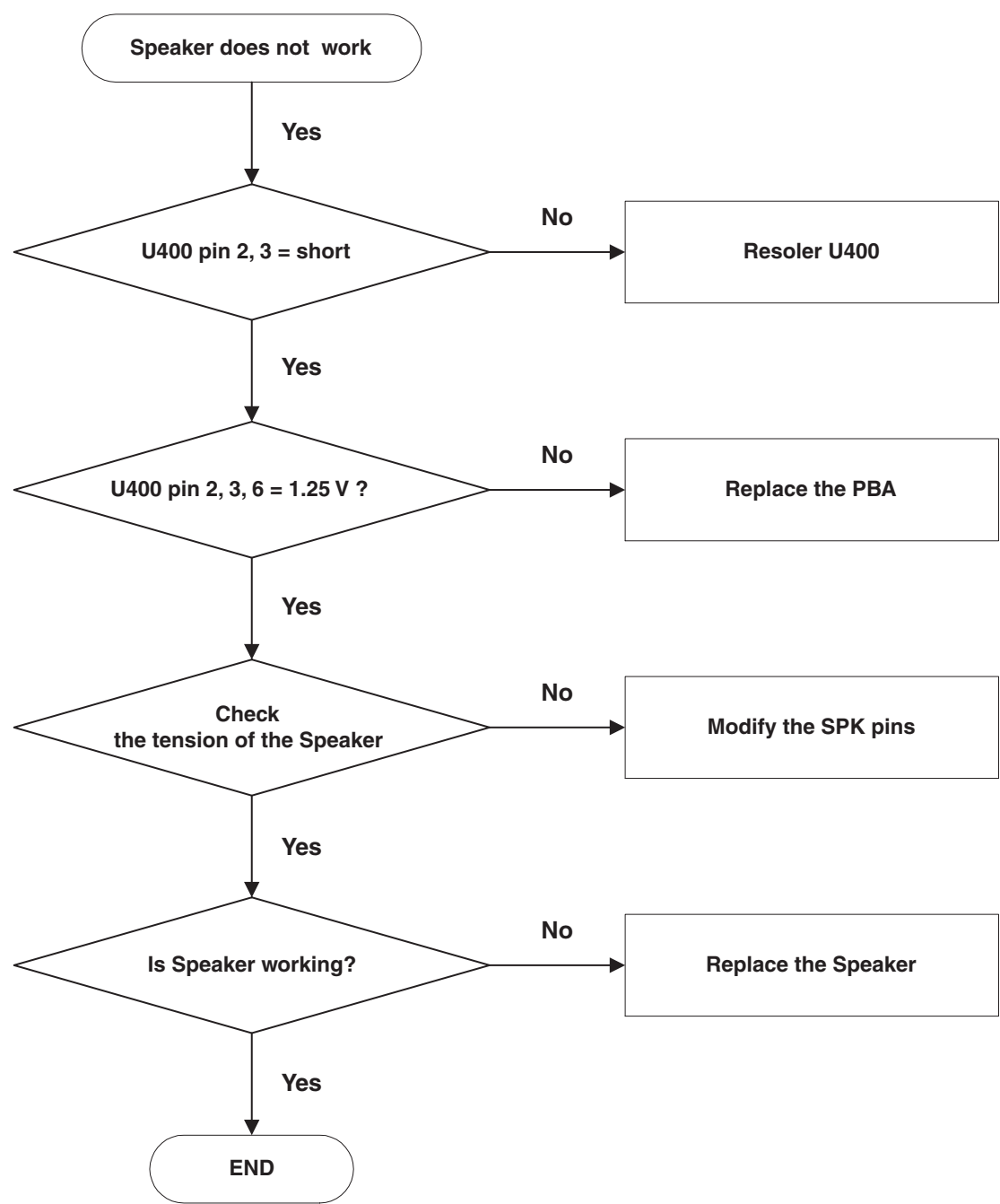


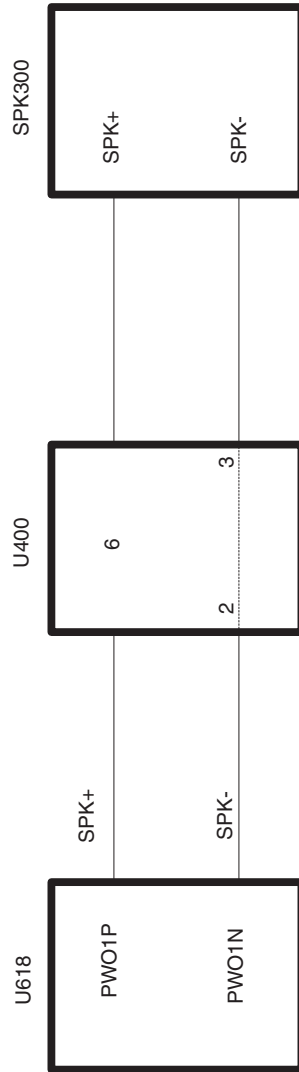
5-5 Microphone Part



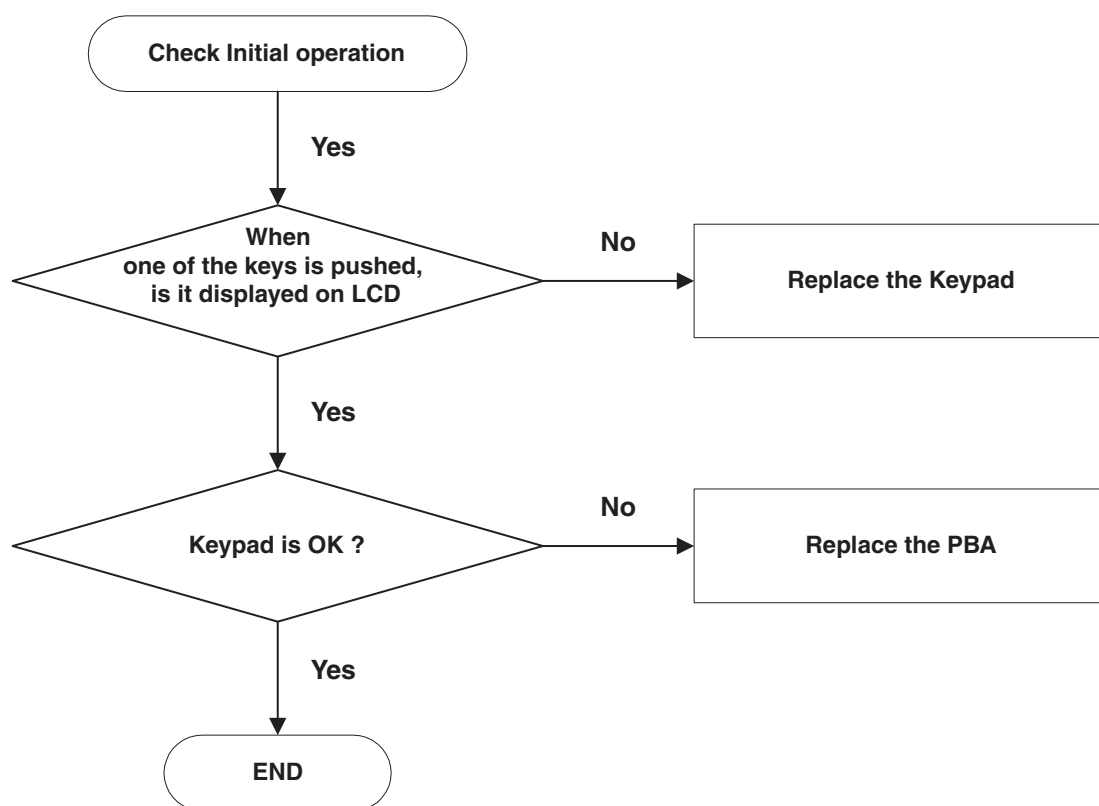


5-6 Speaker Part

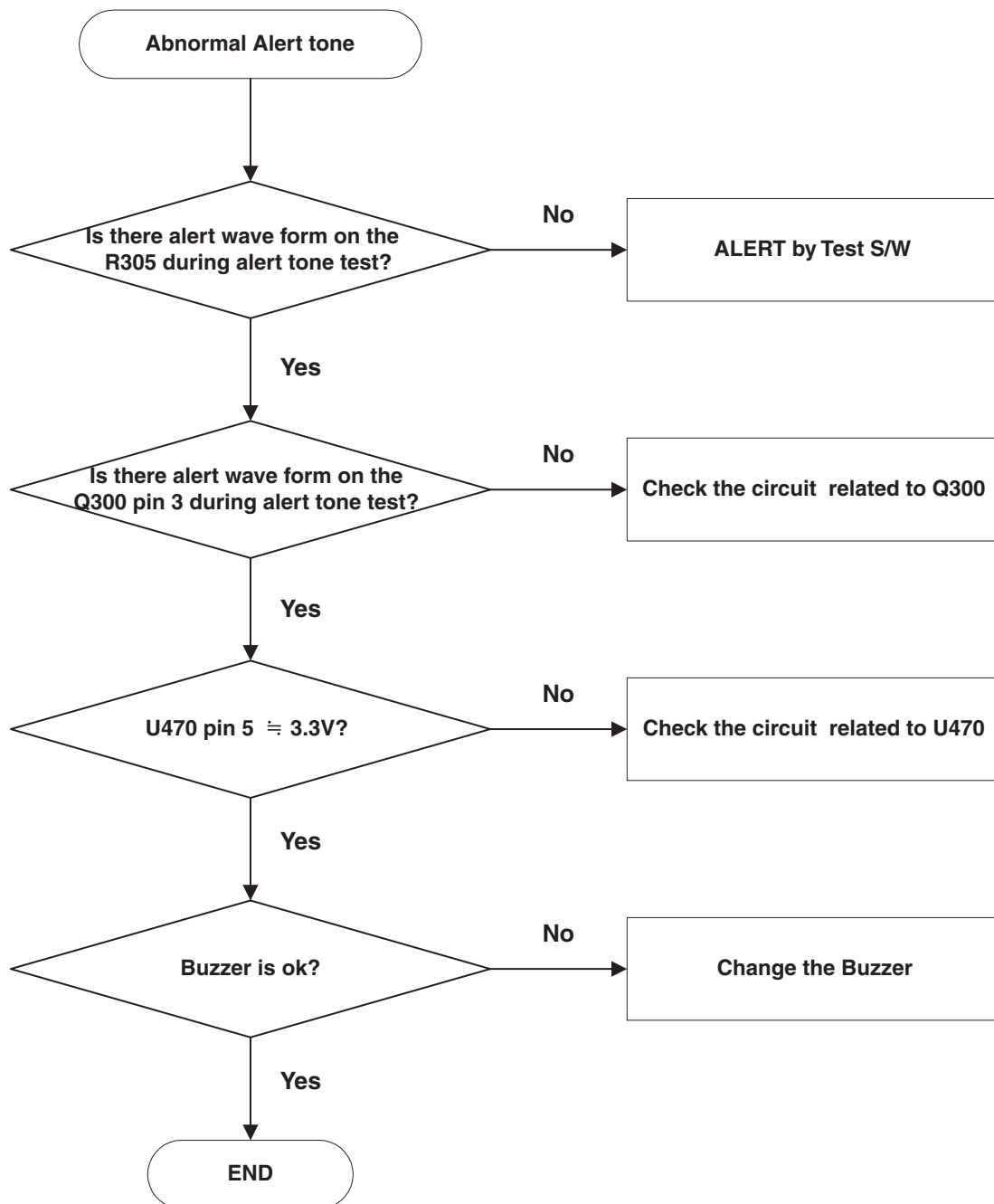


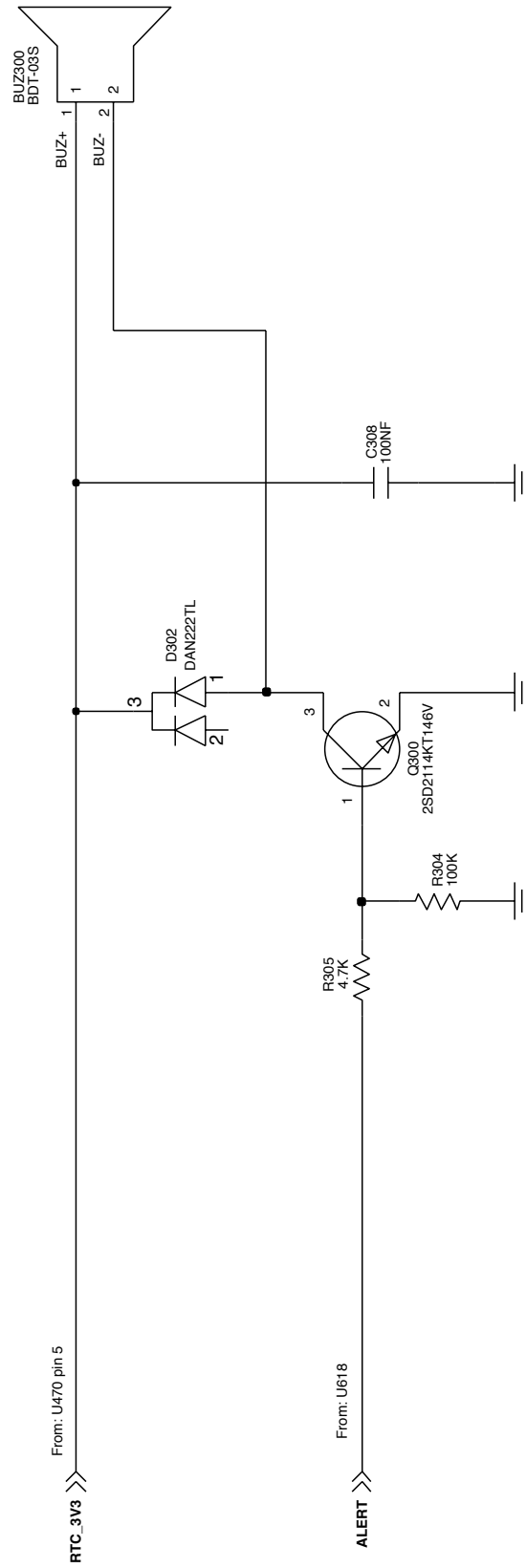


5-7 Key Data Input

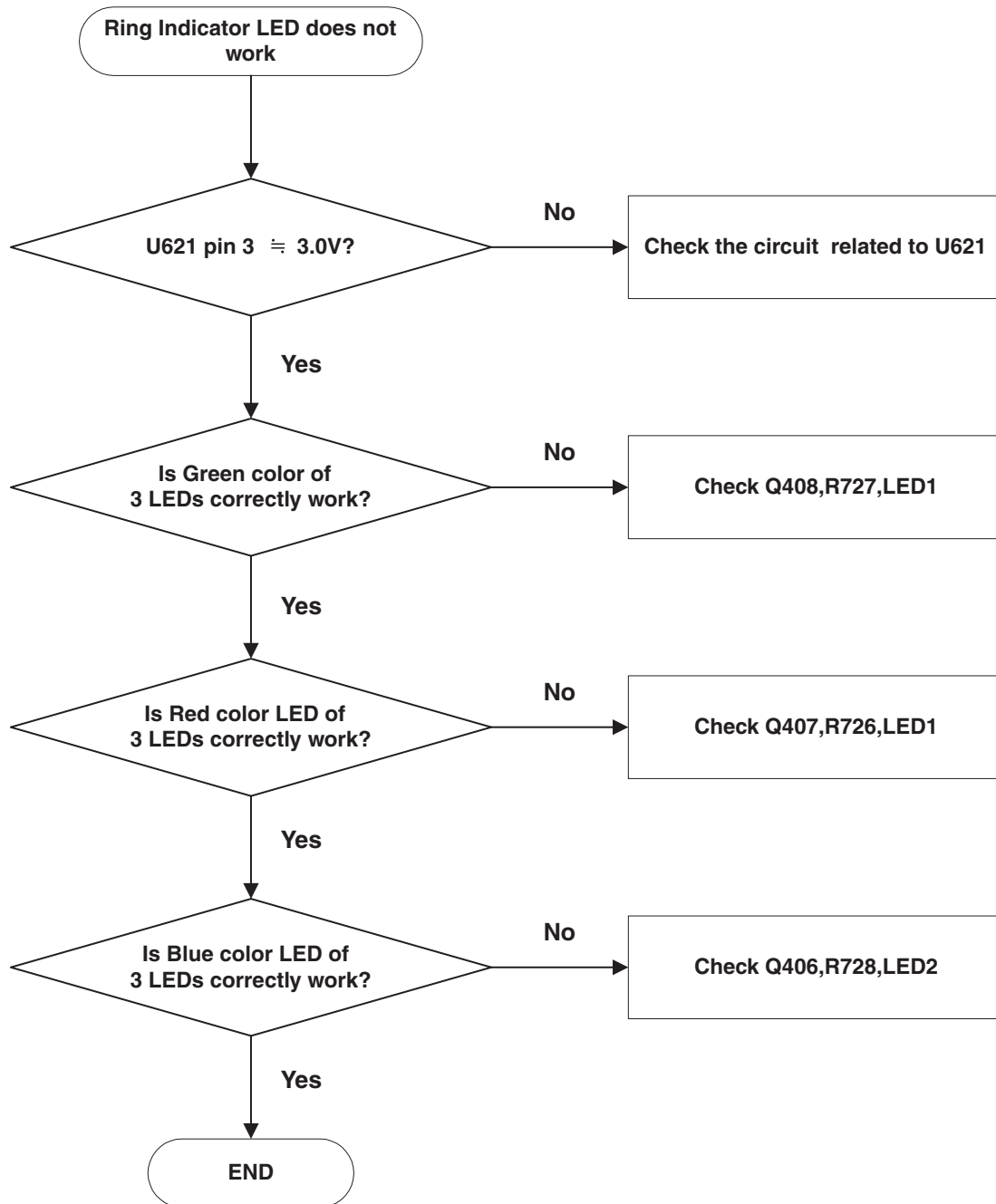


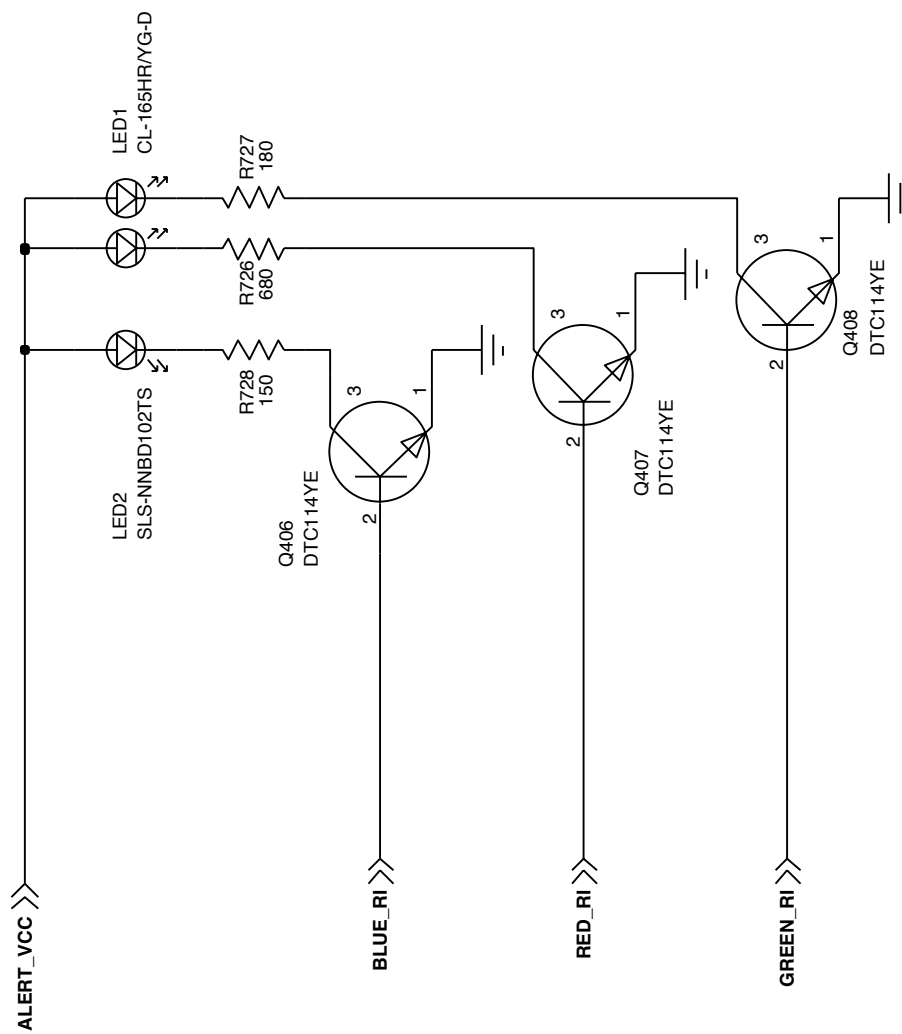
5-8 Alert Tone



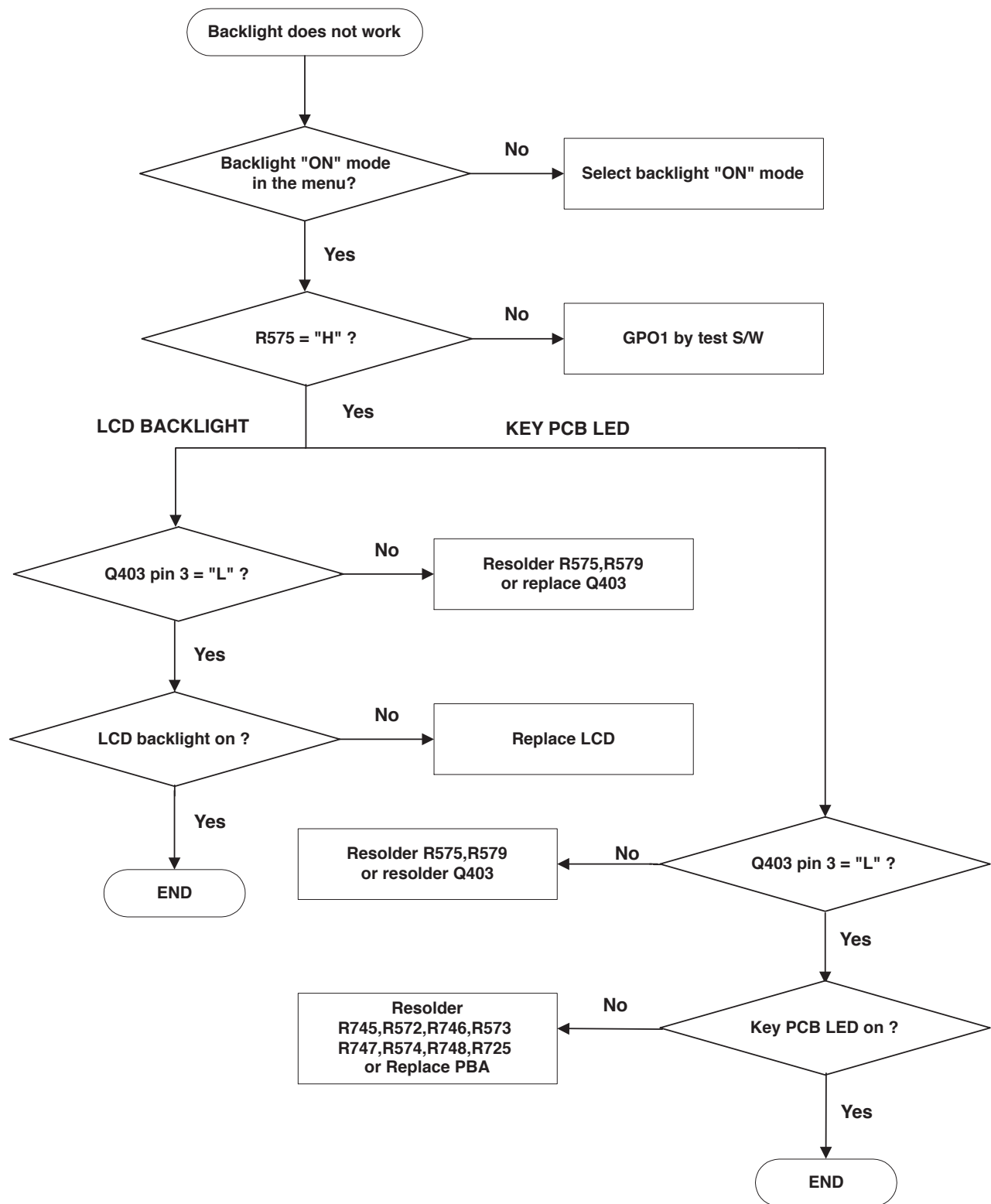


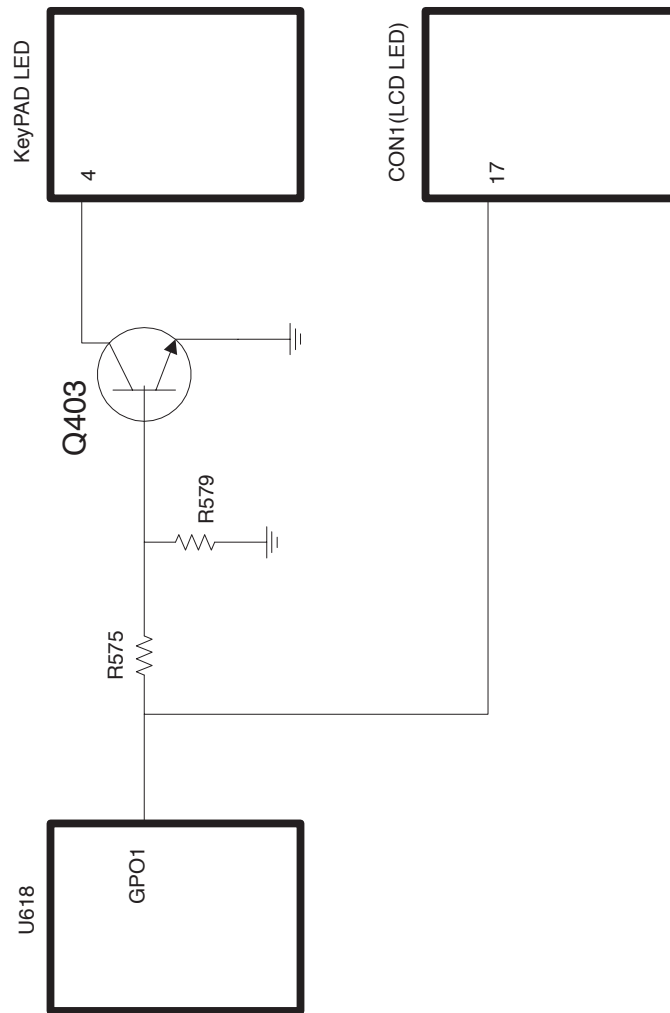
5-9 Ring Indicator



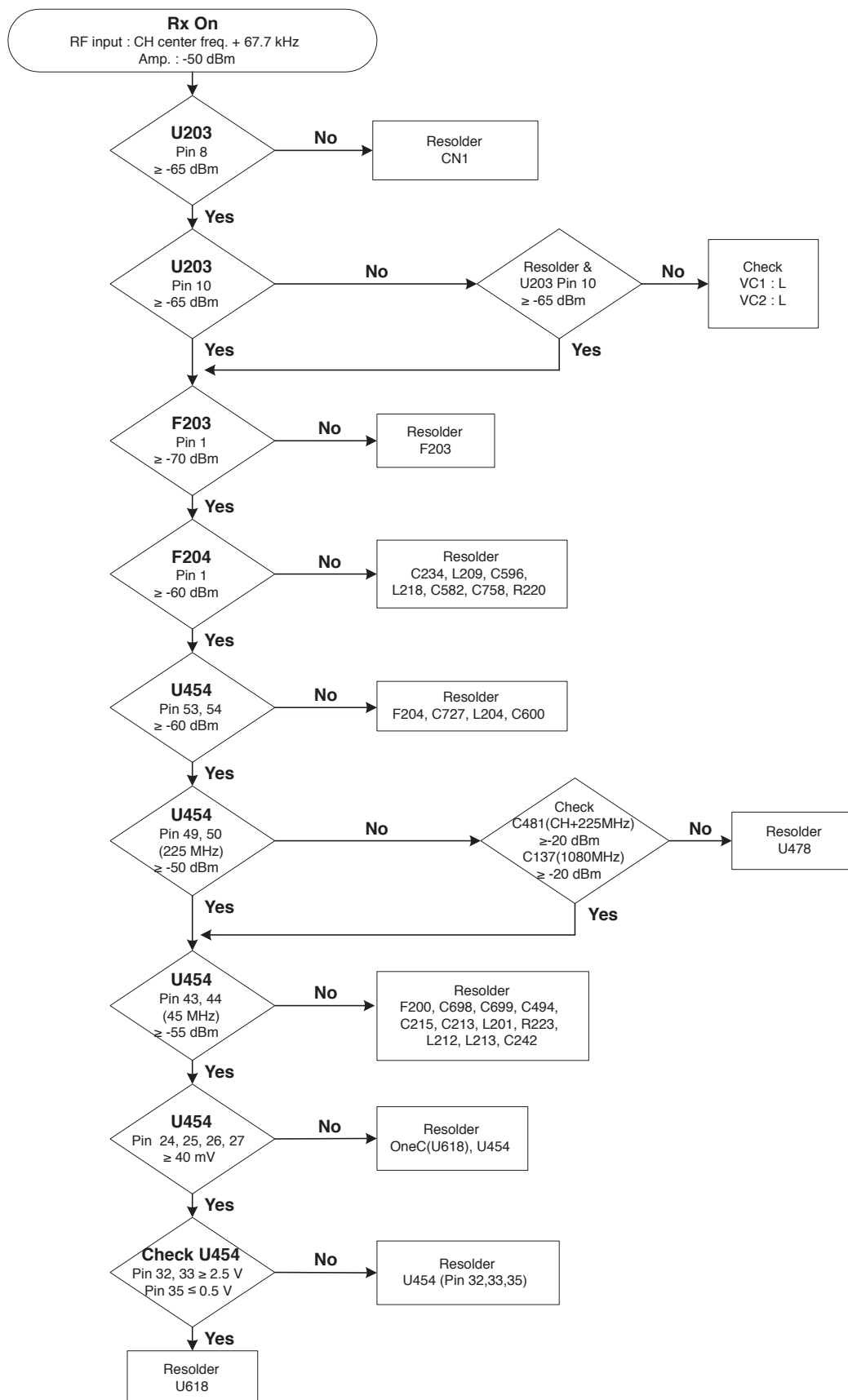


5-10 Back Light

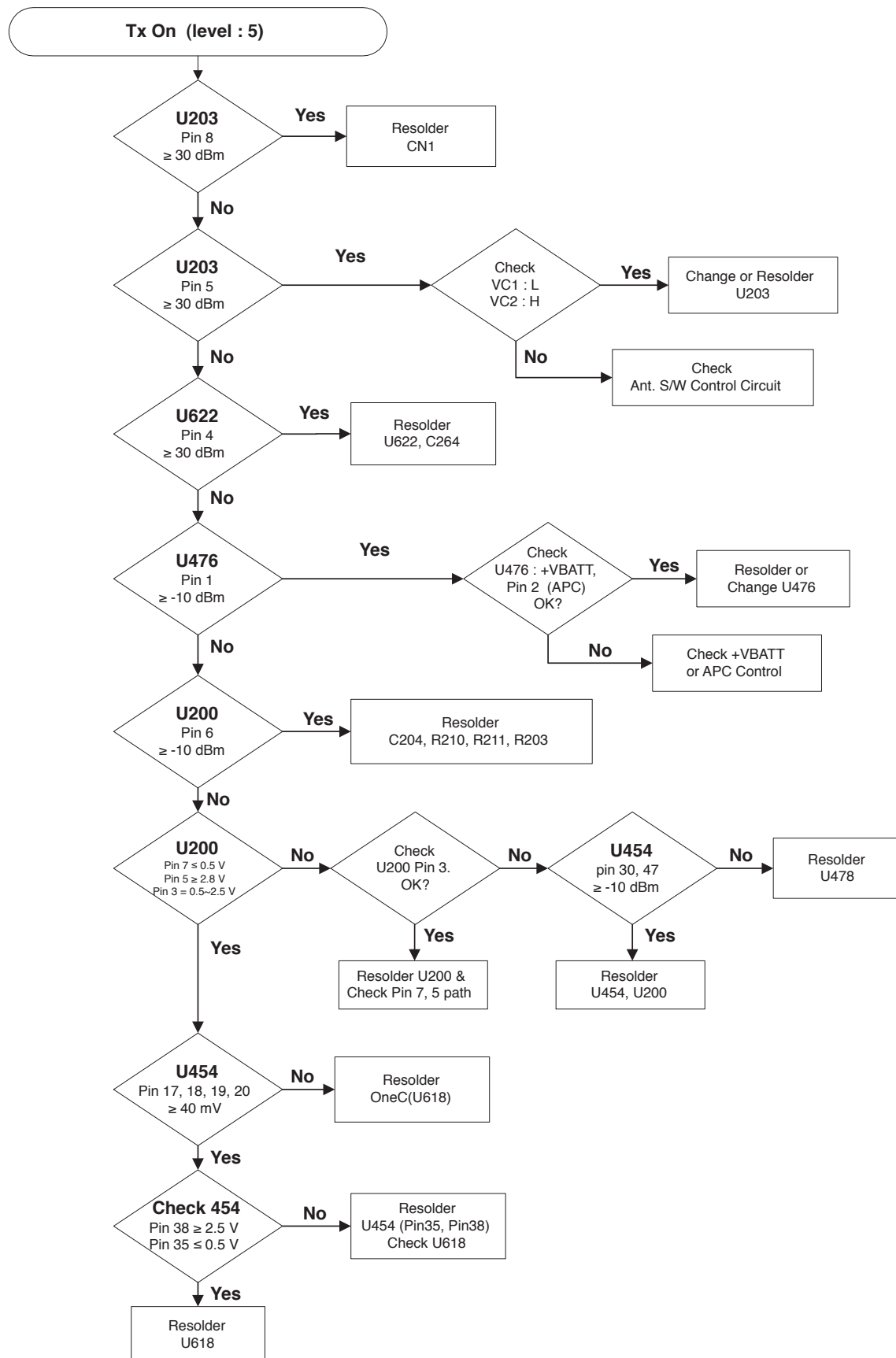




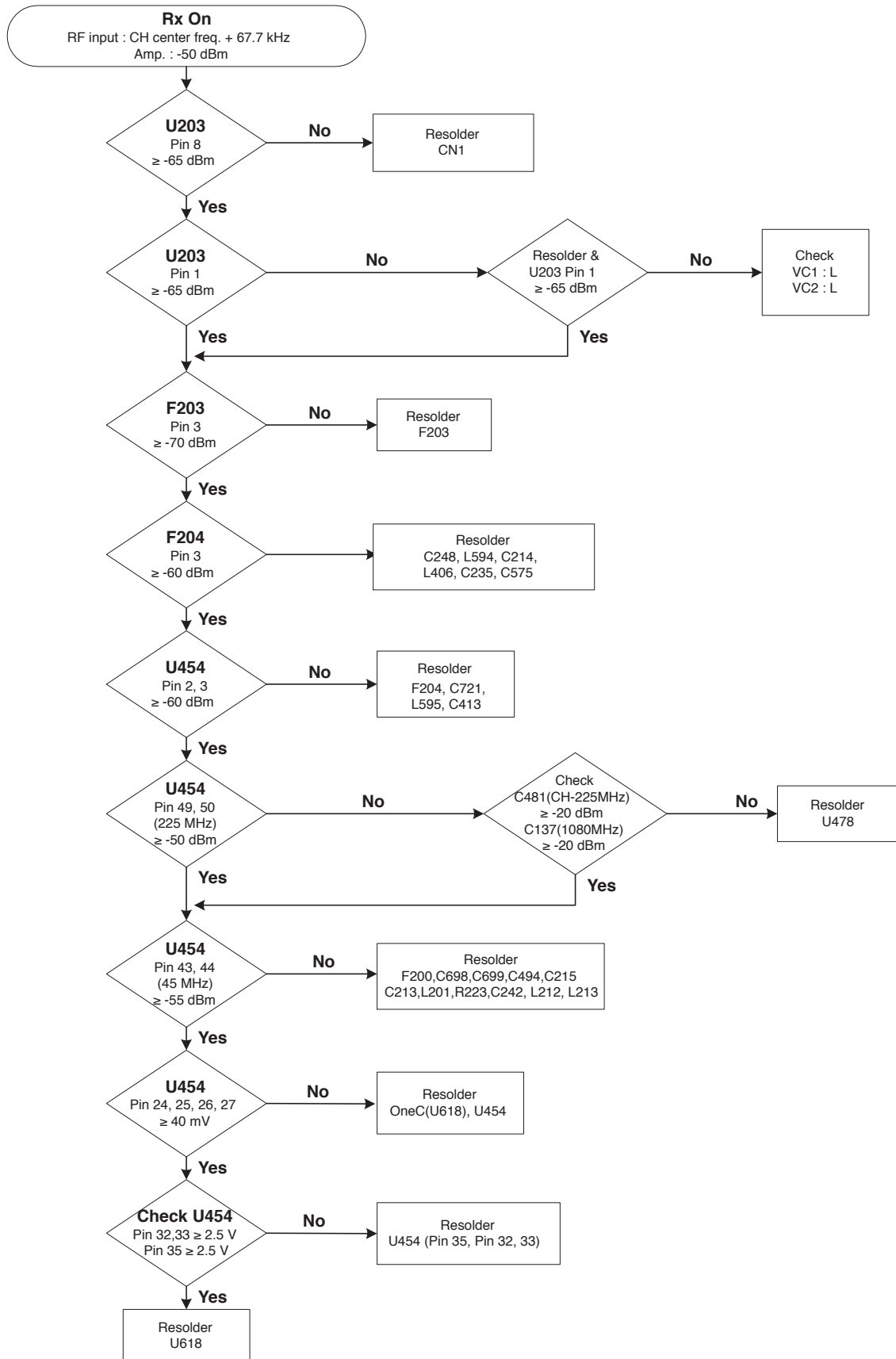
5-11 GSM Receiver



5-12 GSM Transmitter



5-13 PCS Receiver



5-14 PCS Transmitter

