

**SAMSUNG**

# DUAL BAND Mobile Cellular Phone SGH-2400

# ***SERVICE*** Manual

## DUAL BAND Mobile Cellular Phone



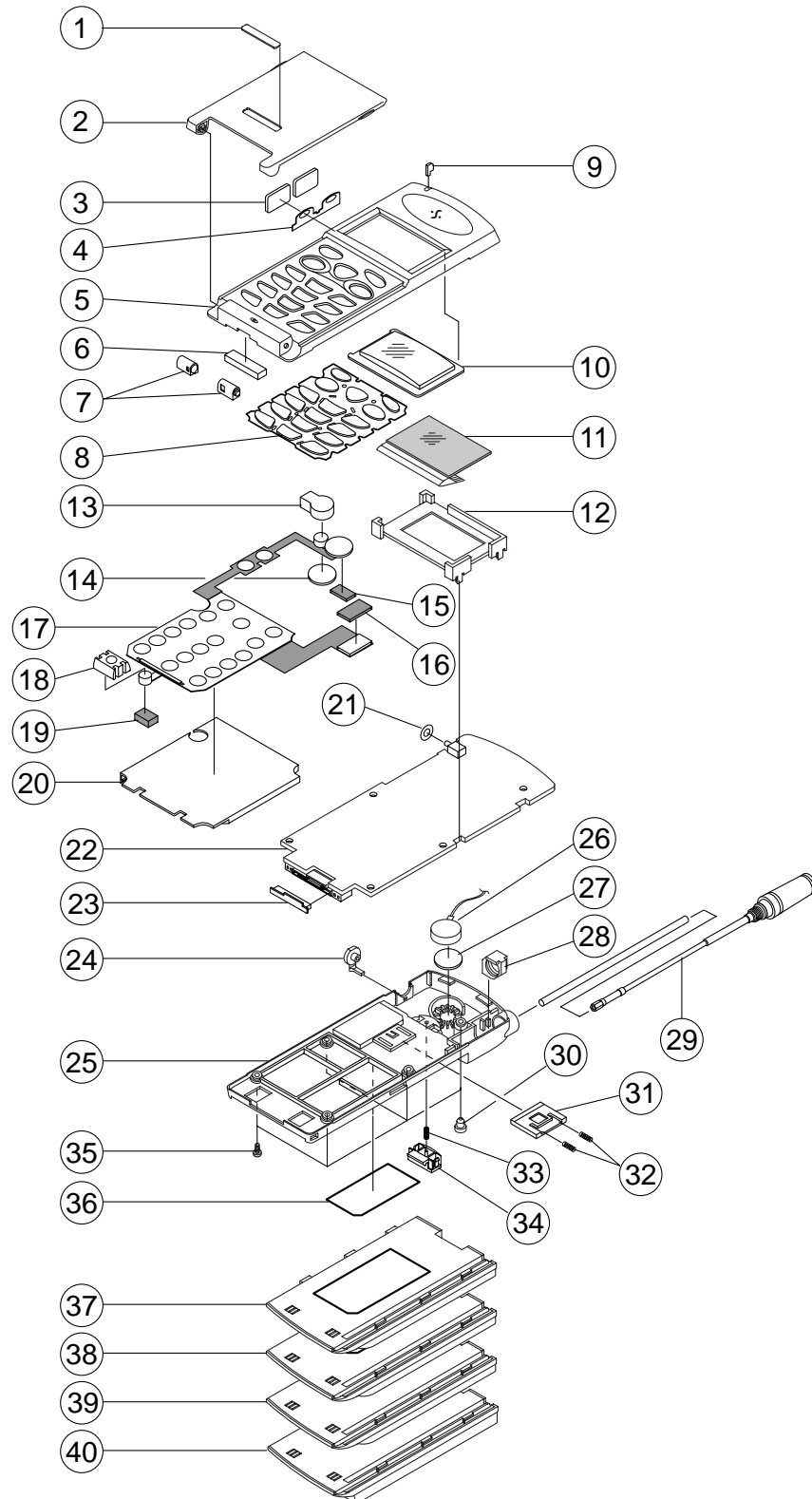
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3. Block Diagrams
4. PCB Diagrams
5. Schematic Diagrams
6. Troubleshooting



# 1. Exploded Views and Parts List

## 1-1 Main



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## 1-2 Main Parts List

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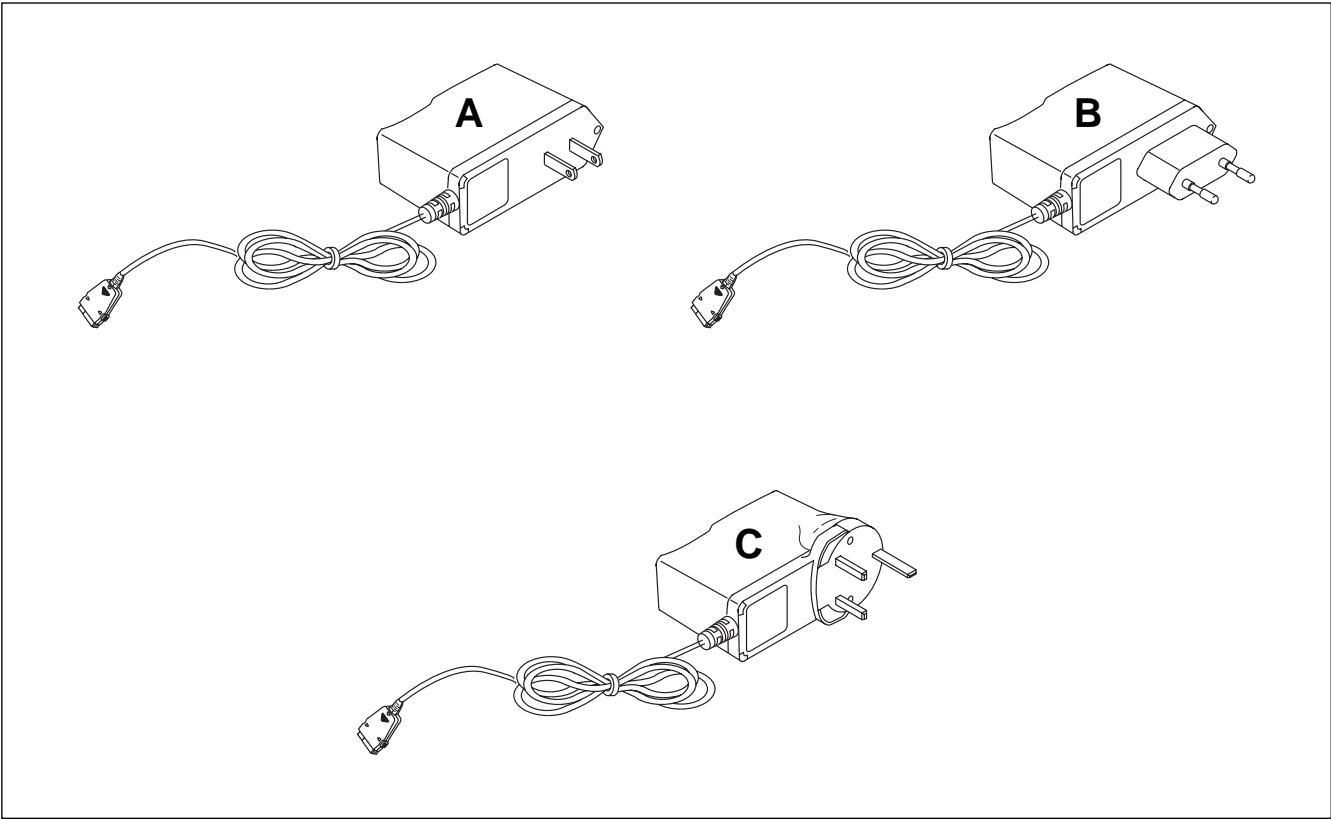
NO	DESCRIPTION	SEC.CODE	Q'TY	REMARK
1	BADGE		1	
2	FLIP COVER		1	
3	KEY VOLUMN		1	
4	PUBBER-KEY		1	
5	FRONT COVER		1	
6	SPONGE S/W		1	
7	HINGE ASS'Y		2	
8	KEY-MAIN		1	
9	LED LENS		1	
10	SUA. WINDOW		1	
11	LCD		1	
12	LCD FRAME		1	
13	RUBBER-BUZZER		1	
14	SUPPORT BUZZER		1	
15	SUPPORT-SPK		1	
16	SUPPORT-CON.		1	
17	KEY-PCB		1	
18	HOLDER-MIC		1	
19	SPONGE-MIC		1	
20	SHIELD-FRAME		1	
21	JACK-COVER		1	
22	PCB		1	
23	COVER-CONNECTOR			
24	EAR-COVER			
25	REAR COVER		1	
26	MOTOR		1	
27	TAPE-MOTOR		1	
28	ANT.BRAKET		1	
29	ANTENNA		1	
30	RUBBER CAP		1	
31	SIM COVER		1	
32	SPRING-SIM		1	
33	SPRING-LOCKER		1	
34	LOCKER-MAIN		1	
35	SCREW MACHINE		1	
36	MAIN LABEL		1	
37	SLIM BATT.		1	
38	STD BATT.			

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NO	DESCRIPTION	SEC.CODE	Q'TY	REMARK
39	EXT.BATT			
40	ULTRA EXT. BATT			

### 1-3 Travel Adapter

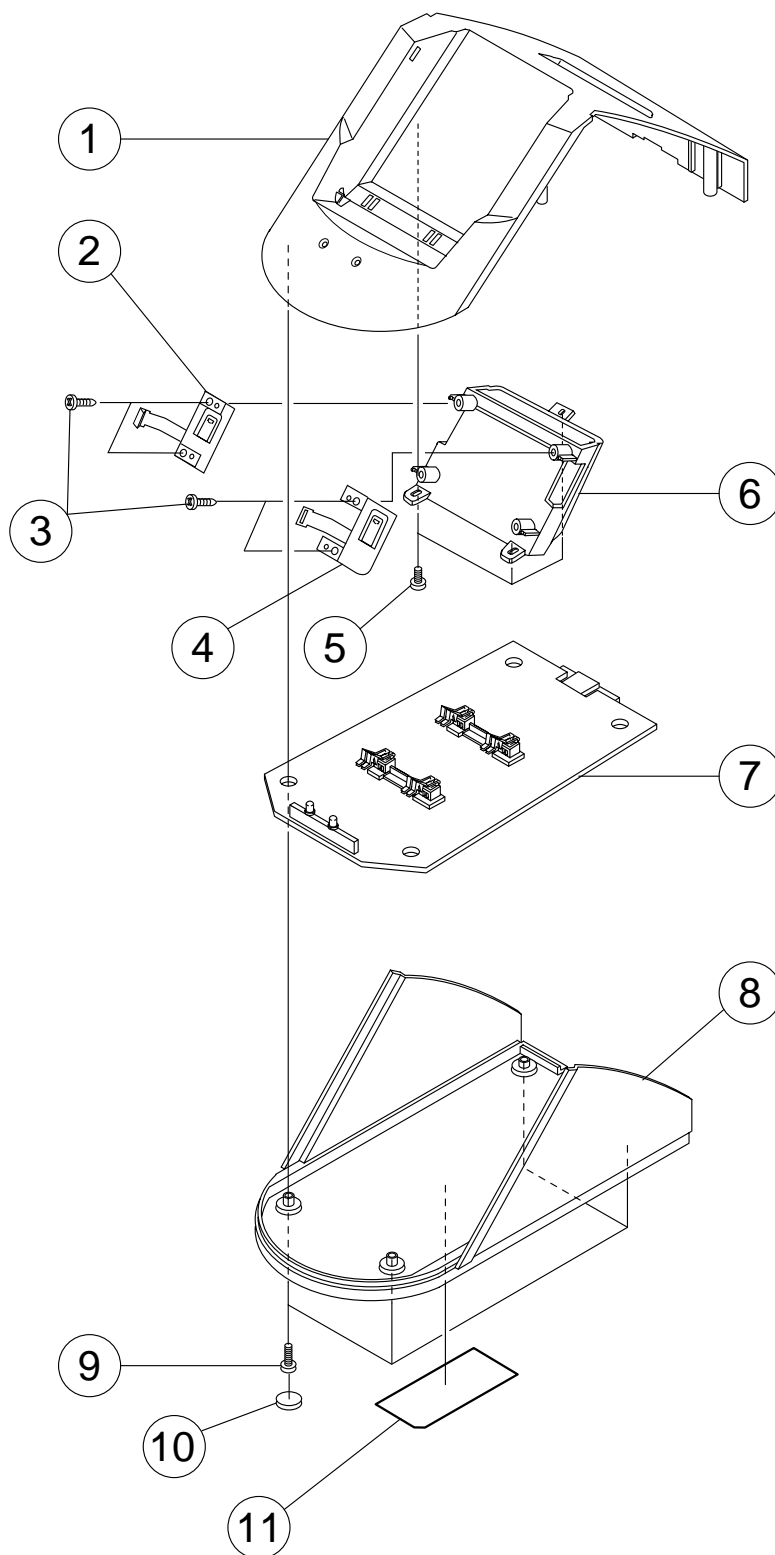


### 1-4 Travel Adapter Parts List

TYPE	SEC CODE	REMARK
A	GH96-01143A	CHINA
B	GH96-01146A	EUROPE
C	GH96-01095A	UNITED KINGDOM

## 1-5 Desk Top Charger

SEC CODE : GH44-00090A



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## 1-6 Desk Top Charger Parts List

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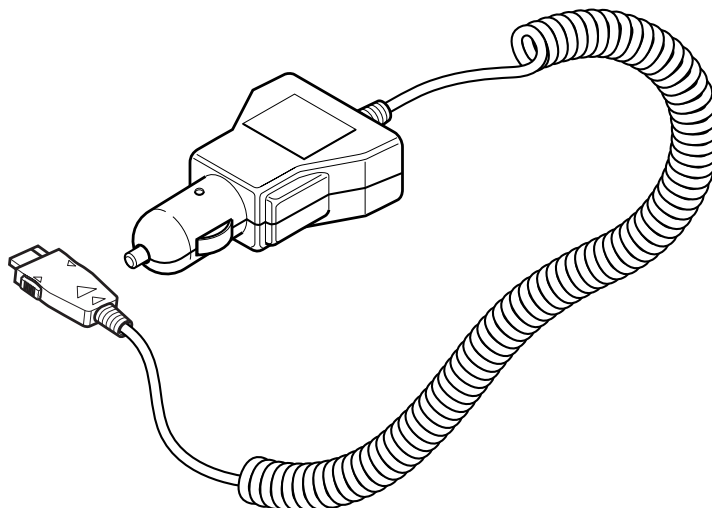
NO	DESCRIPTION	SEC.CODE	Q'TY	REMARK
1	UPPER CASE		1	
2	HANGER SPRING (L)		1	
3	SCREW TAPPING		4	
4	HANGER SPRING (R)		1	
5	SCREW TAPPING		3	
6	BATT. HOUSING		1	
7	PCB		1	
8	LOWER BASE		1	
9	SCREW TAPPING		4	
10	BUMPON		4	
11	LABEL		1	



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## 1-7 Ciger Light Adapter

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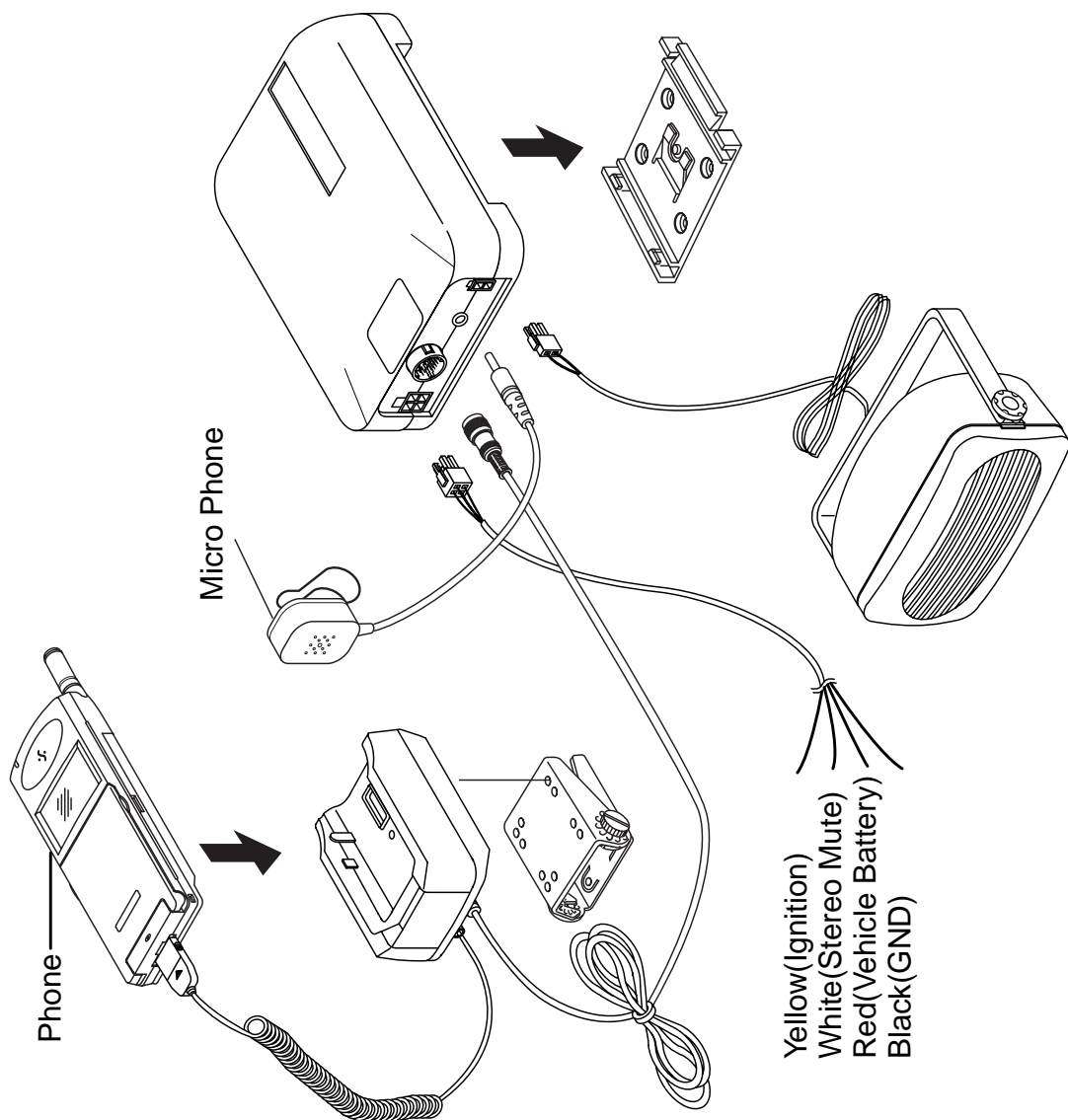
## 1-8 Ciger Light Adapter Parts List

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DESCRIPTION	SEC CODE	REMARK
Ciger Light Adapter Code	GH44-00040A	BLACK

## 1-9 Hands Free Kit

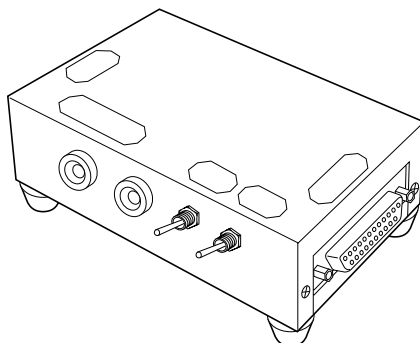
SEC CODE : GH96-00800A



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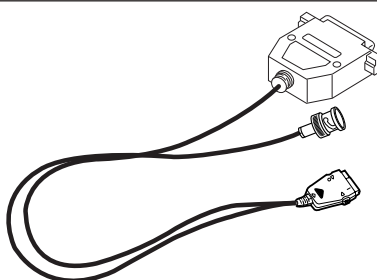
## 1-10 Test Jig

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TEST JIG

GH80-10508A

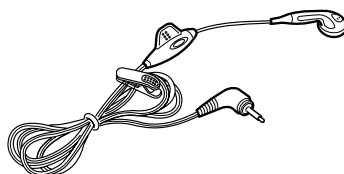


DATA CABLE

GH39-30532A

## 1-11 Earphone

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EARPHONE

GH96-00830A

## 2 Electrical Parts List

### 2-1 Main Parts List

REFERENCE	SEC.CODE	DESCRIPTIONS
D401,D801	0401-001033	Diode-Switching,25V,200mA
D253,D255,D808	0404-001044	Diode-Schottky,20V,1A,SMD
D400	0404-001054	Diode-Schottky,70V,15mA,SOT-143
D600	0405-001051	Diode-Varactor,4.7V,50nA,SOT-23
D101,D102,D176,D820,D903	0406-001084	ESD Diode
D252	0407-001002	Diode-Array,80V,300mA,CA2-3
D901,D902	0407-001006	Diode-Array,20V,100mA,C2-3
D251	0407-001007	Diode-Array,80V,25mA,CA4-2
Q958	0501-000162	TR-SMALL SIGNAL,NPN,200mW,SOT-323
Q951	0501-002011	TR-SMALL SIGNAL,NPN,200mW,SOT-23
Q300	0501-002037	TR-SMALL SIGNAL,MPN,55mW,SOT-434
Q601,Q604	0501-002196	TR-SMALL SIGNAL,NPN,280mW,SOT-323
U307	0501-002205	TR-SMALL SIGNAL,NPN,SOT-343
Q151,Q153,Q255	0504-000167	TR-Digital,NPN,100mW,10K10Kohm
Q256,Q257	0504-000168	TR-Digital,NPN,100mW,47K47Kohm
Q500	0505-000110	FET-SILICON,60V,115mA,200mW
U501,U502	0505-001131	FET-SILICON,-12V,-500mA,690mohm
Q950,Q957	0505-001332	FET-SILICON
Q600	0506-000173	TR-ARRAY,NPN,80mW,SOT-363
U128,U252,U302,U303,U400,U403,U412,U813	0506-001004	TR-ARRAY,NPN/PNP,50V,-100mA
LED100	0601-000276	LED/CHIP
U902,U903	0801-000022	IC-CMOS LOGIC,NANDGATE,SOP,5P
U900,U901,U904,U906	0801-000794	IC-CMOS LOGIC,ANDGATE,SOT-25,5P
U905	0801-002345	IC-CMOS LOGIC,INVERTER,SOP,5P
U413,U414	0801-002349	IC-CMOS LOGIC
U962,U963	1001-001088	ANALOG SWITCH
U969	1003-001226	IC-POWER DRIVER,SOP,8P,120MIL
U203	1103-001090	IC-EEPROM,16Kx8Bit,SOP,8P,150MIL
U105	1106-001287	IC-SRAM
U103	1107-001111	IC-Flash memory
U104	1107-001164	IC-Flash memory
U406	1201-001018	IC-OP AMP,SOT-23,5P,Single,70dB
U127	1201-001212	IC-OP AMP,SOP,14P,15V/Mv
U604	1201-001248	IC-CASCADE AMP,SOT-143,4P,2.7V
U402	1201-001299	IC-POWER Amp,RF-K,8P,SINGLE,8V
U408	1201-001411	IC-POWER Amp
U960	1202-001022	IC-VOLTAGE COMP,SSOP,8P,110MIL,7V
U801,U803,U805,U806,U810,U811	1203-001285	IC-SWITCH VOL REG,SOT-23,5P,150MIL

REFERENCE	SEC.CODE	DESCRIPTIONS
U809	1203-001511	IC-Reset,SOT-23,3P
U253	1203-001515	IC-BATTERY,SSOP,16P,150MIL
U804	1203-001592	IC-VOLTAGE REGULATOR,SOT-23,5P
U812	1203-001702	IC-DC/DC CONVERTER,SOP,10P,112MIL
U102	1203-001740	IC-DC/DC CONVERTER,SOP,16P,150MIL
U301	1204-001006	IC-IP SYSTEM,SOP,20P,205MIL
U300,U305	1205-001307	IC-MIXER,SOP,16P,197MIL
U200	1205-001643	IC-KERNEL
U950	1205-001697	IC-VOCODER,QFP,80P,3V
U202	1206-001009	IC-TIMER,SOP,8P,173MIL
U603	1209-001220	IC-PLL SYSTEM,SOP,20P,173MIL
U500	1209-001233	IC-PLL SYSTEM,SSOP,28P
TH1	1404-001005	THERMISTOR,47Kohm,5%,4054K,20mW
D179	1405-001018	Varistors
D103,D104,D819	1405-001019	Varistors
R184	2007-000070	R-CHIP,0ohm,5%,1/16W,DA,TP,1608
R105,R129,R135,R163,R177,R178,R179,R180,R181 R182,R183,R185,R186,R187,R188,R621,R653	2007-000138	R-CHIP,100ohm,5%,1/16W,DA,TP,1005
R644,R978	2007-000139	R-CHIP,220ohm,5%,1/16W,DA,TP,1005
R220,R221,R264,R529,R611,R646,R811,R951,R954	2007-000140	R-CHIP,1Kohm,5%,1/16W,DA,TP,1005
R640	2007-000141	R-CHIP,2.2Kohm,5%,1/16W,DA,TP,1005
R309,R609	2007-000142	R-CHIP,2.7Kohm,5%,1/16W,DA,TP,1005
R351	2007-000143	R-CHIP,4.7Kohm,5%,1/16W,DA,TP,1005
R606,R628	2007-000145	R-CHIP,6.2Kohm,5%,1/16W,DA,TP,1005
R603	2007-000146	R-CHIP,6.8Kohm,5%,1/16W,DA,TP,1005
R104,R152,R205,R210,R232,R235,R238,R253,R256,R363 R418,R419,R605,R630,R637,R906,R907,R952,R962,R963 R984,R985,R996,R255	2007-000148	R-CHIP,10Kohm,5%,1/16W,DA,TP,1005
R300	2007-000152	R-CHIP,20Kohm,5%,1/16W,DA,TP,1005
R622	2007-000153	R-CHIP,22Kohm,5%,1/16W,DA,TP,1005
R126,R208,R218,R219,R352,R353	2007-000157	R-CHIP,47Kohm,5%,1/16W,DA,TP,1005
R257	2007-000159	R-CHIP,56Kohm,5%,1/16W,DA,TP,1005
R100,R101,R102,R151,R153,R162,R209,R212,R213,R214 R222,R231,R251,R252,R254,R263,R528,R812,R972,R980	2007-000162	R-CHIP,100Kohm,5%,1/16W,DA,TP,1005
R610,R639	2007-000164	R-CHIP,150Kohm,5%,1/16W,DA,TP,1005
R215,R312,R326,R361,R505,R531,R631,R647,R968,R986	2007-000171	R-CHIP,0ohm,5%,1/16W,DA,TP,1005
R308,R500,R501,R502,R503,R504,R517,R524,R527,R601 R602,R607,R633,R638,R650	2007-000172	R-CHIP,10ohm,5%,1/16W,DA,TP,1005
R651,R654	2007-000173	R-CHIP,22ohm,5%,1/16W,DA,TP,1005
R515,R516,R518	2007-000932	R-CHIP,470ohm,5%,1/16W,DA,TP,1005
R130,R136,R417	2007-001119	R-CHIP,680ohm,5%,1/16W,DA,TP,1005
R428	2007-001217	R-CHIP,82ohm,5%,1/16W,DA,TP,1005

REFERENCE	SEC.CODE	DESCRIPTIONS
R304,R623,R625,R627	2007-001288	R-CHIP,18ohm,5%,1/16W,DA,TP,1005
R431	2007-001295	R-CHIP,39ohm,5%,1/16W,DA,TP,1005
R305,R364,R410,R420,R511,R519,R520,R648,R649	2007-001298	R-CHIP,51ohm,5%,1/16W,DA,TP,1005
R445	2007-001301	R-CHIP,68ohm,5%,1/16W,DA,TP,1005
R404,R406,R617	2007-001305	R-CHIP,120ohm,5%,1/16W,DA,TP,1005
R430,R432	2007-001306	R-CHIP,150ohm,5%,1/16W,DA,TP,1005
R306,R311,R316,R317	2007-001307	R-CHIP,180ohm,5%,1/16W,DA,TP,1005
R613,R805	2007-001308	R-CHIP,200ohm,5%,1/16W,DA,TP,1005
R128,R134	2007-001311	R-CHIP,270ohm,5%,1/16W,DA,TP,1005
R356,R357,R365,R525,R526,R950,R953	2007-001313	R-CHIP,330ohm,5%,1/16W,DA,TP,1005
R612	2007-001316	R-CHIP,820ohm,5%,1/16W,DA,TP,1005
R507,R512	2007-001317	R-CHIP,910ohm,5%,1/16W,DA,TP,1005
R629	2007-001323	R-CHIP,3Kohm,5%,1/16W,DA,TP,1005
R354,R608	2007-001325	R-CHIP,3.3Kohm,5%,1/16W,DA,TP,1005
R618,R643	2007-001339	R-CHIP,180Kohm,5%,1/16W,DA,TP,1005
R413	2007-002797	R-CHIP,560ohm,5%,1/16W,DA,TP,1005
R301	2007-003020	R-CHIP,4.3Kohm,5%,1/16W,DA,TP,1005
R427,R429	2007-003030	R-CHIP,91ohm,5%,1/16W,DA,TP,1005
R407	2007-007001	R-CHIP,3.9Kohm,5%,1/16W,DA,TP,1005
R521	2007-007090	R-CHIP,11Kohm,5%,1/16W,DA,TP,1005
R510	2007-007095	R-CHIP,390ohm,5%,1/16W,DA,TP,1005
R362	2007-007096	R-CHIP,160ohm,5%,1/16W,DA,TP,1005
R132,R137,R259	2007-007107	R-CHIP,100Kohm,1%,1/16W,DA,TP,1005
R265	2007-007133	R-CHIP,300ohm,1%,1/16W,DA,TP,1005
R261	2007-007135	R-CHIP,18K,1%,1/16W,DA,TP,1005
R434,R619,R900,R903,R905	2007-007137	R-CHIP,1.2Kohm,1%,1/16W,DA,TP,1005
R522	2007-007141	R-CHIP,240ohm,5%,1/16W,DA,TP,1005
R904,R987	2007-007142	R-CHIP,10Kohm,1%,1/16W,DA,TP,1005
R514,R523,R626,R645,R652	2007-007195	R-CHIP,3.9ohm,5%,1/16W,DA,TP,1005
R262,R416	2007-007309	R-CHIP,12Kohm,1%,1/16W,DA,TP,1005
R266,R414	2007-007310	R-CHIP,8.2Kohm,1%,1/16W,DA,TP,1005
R412	2007-007311	R-CHIP,22Kohm,1%,1/16W,DA,TP,1005
R409	2007-007316	R-CHIP,3.3Kohm,1%,1/16W,DA,TP,1005
R200,R201,R202,R203	2007-007317	R-CHIP,2.2Kohm,1%,1/16W,DA,TP,1005
R121,R127,R133,R303,R313,R415,R994,R995	2007-007318	R-CHIP,1Kohm,1%,1/16W,DA,TP,1005
R435,R655	2007-007588	R-CHIP,1.8Kohm,1%,1/16W,DA,TP,1005
R258	2007-007590	R-CHIP,82Kohm,1%,1/16W,DA,TP,1005
R260	2007-007592	R-CHIP,270K,1%,1/16W,DA,TP,1005
R979,R981	2007-007627	R-CHIP,16Kohm,1%,1/16W,DA,TP,1005
R983	2007-007630	R-CHIP,14Kohm,1%,1/16W,DA,TP,1005
R355,R902	2007-007788	R-CHIP,332ohm,1%,1/16W,DA,TP,1005
C524	2203-000151	C-CHIP,1.5nF,5%,50V,TP,2012

REFERENCE	SEC.CODE	DESCRIPTIONS
C215,C216,C217,C218,C303,C318,C337,C362,C368,C411,C416 C501,C502,C503,C508,C509,C516,C521,C623,C628,C635,C642	2203-000233	C-CHIP,100pF,5%,50V,TP,1005
C348,C512	2203-000278	C-CHIP,10pF,5%,50V,TP,1005
C445	2203-000311	C-CHIP,120pF,5%,50V,TP,1005
C310,C539,C604	2203-000330	C-CHIP,12pF,5%,50V,TP,1005
C625	2203-000359	C-CHIP,150pF,5%,50V,TP,1005
C316,C431,C514,C951,C958,C959,C968,C969,C970,C991,C993	2203-000386	C-CHIP,15pF,5%,50V,TP,1005
C127,C135,C207,C311,C351,C352,C354,C356,C361,C371,C373 C375,C379,C504,C522,C621,C627,C637,C641,C966,C967	2203-000438	C-CHIP,1nF,10%,50V,TP,1005
C624	2203-000455	C-CHIP,1nF,5%,50V,TP,2012
C409	2203-000585	C-CHIP,220pF,10%,50V,TP,1005
C950,C956	2203-000604	C-CHIP,22nF,10%,25V,TP,1608
C305,C330,C374,C376,C378,C415,C505,C506,C515,C611,C617	2203-000628	C-CHIP,22pF,5%,50V,TP,1005
C405,C418,C423,C428,C454,C457,C458,C459,C460,C510,C511 C517,C520,C529,C530,C632,C633,C639	2203-000679	C-CHIP,27pF,5%,50V,TP,1005
C346	2203-000696	C-CHIP,2pF,5%,50V,TP,1005
C128,C136,C609	2203-000725	C-CHIP,3.9nF,10%,50V,TP,1005
C614	2203-000800	C-CHIP,33nF,10%,25V,TP,1608
C302,C306,C319	2203-000812	C-CHIP,33pF,5%,50V,TP,1005
C610	2203-000836	C-CHIP,390pF,10%,50V,TP,1005
C325	2203-000854	C-CHIP,39pF,5%,50V,TP,1005
C304,C357,C810,C819,C862,C867	2203-000940	C-CHIP,470pF,10%,50V,TP,1005
C321,C350,C353,C377,C647	2203-001017	C-CHIP,4pF,5%,50V,TP,1005
C1004	2203-001033	C-CHIP,5.6nF,10%,25V,TP,1005
C518,C519	2203-001072	C-CHIP,56pF,5%,50V,TP,1005
C165,C166,C167,C168	2203-001101	C-CHIP,6.8nF,10%,25V,1005
C507,C513	2203-001153	C-CHIP,68pF,5%,50V,TP,1005
C300,C307,C315,C540,C606	2203-001178	C-CHIP,6pF,5%,50V,TP,1005
C314,C339	2203-001201	C-CHIP,7pF,5%,50V,TP,1005
C410,C430	2203-001221	C-CHIP,820pF,10%,50V,TP,1005
C613	2203-001259	C-CHIP,8pF,5%,50V,TP,1005
C169	2203-001402	C-CHIP,220nF,+80-20%,16V,TP,1608
C523	2203-001408	C-CHIP,270pF,5%,50V,TP,1608
C429	2203-002525	C-CHIP,560pF,10%,50V,TP,1005
C313	2203-002668	C-CHIP,0.5pF,0.1pF,50V,TP,1005
C317,C954,C964,C990,C996,C997,C1008	2203-003054	C-CHIP,9pF,5%,50V,TP,1005
C341	2203-005050	C-CHIP,1.8pF,5%,50V,TP,1005
C210,C528,C603,C644	2203-005054	C-CHIP,4.7pF,5%,50V,TP,1005
C100,C102,C106,C107,C117,C126,C134,C141,C201,C204,C205 C206,C214,C254,C258,C259,C260,C261,C358,C363,C372,C500 C608,C618,C634,C851,C853,C855,C869,C874,C901,C902,C903 C904,C905,C961,C971,C972,C973,C974,C1005	2203-005061	C-CHIP,100nF,+80-20%,16V,TP,1005

REFERENCE	SEC.CODE	DESCRIPTIONS
C170,C171,C172,C173,C257,C364,C533,C534,C536,C638 C669,C800,C830,C831,C872	2203-005065	C-CHIP,1uF,+80-20%,10V,TP,1608
C177,C342,C645	2203-005158	C-CHIP,2.2pF,5%,50V,TP,1005
C629	2203-005195	C-CHIP,10nF,5%,25V,TP,3216
C349	2203-005234	C-CHIP,1.2pF,5%,50V,TP,1005
C602,C646	2203-005444	C-CHIP,3pF,5%,50V,TP,1005
C178,C179,C180,C181	2203-005480	C-CHIP,33nF,10%,10V,TP,1005
C957	2203-005481	C-CHIP,47nF,10%,10V,TP,1005
C365,C616	2203-005562	C-CHIP,10uF,+80-20%,10V,TP,3216
C108,C131,C139,C200,C211,C262,C333,C359,C360,C433 C435,C531,C600,C601,C605,C607,C612,C615,C620,C622 C626,C630,C636,C801,C828,C850,C852,C854,C859,C870 C979,C1006,C1007	2203-005607	C-CHIP,10nF,10%,16V,TP,1005
C464,C871	2404-001083	Cap-Tantal,220uF,6.3V,20%,TP,7125
C203	2404-001086	Cap-Tantal,4.7uF,6.3V,20%,TP,2012
C103,C104,C805,C806,C816,C817,C826,C827,C832,C845 C860,C861,C868	2404-001105	Cap-Tantal,10uF,6.3V,20%,TP,2012
C873	2404-001152	Cap-Tantal , 220uF,20%,6.3V
C953	2404-001162	Cap-Tantal,47uF
C253	2404-001164	Cap-Tantal, 10uF,20%,16V
L126,L128	2703-000217	Inductor,470uH/10%,2012
L127,L129	2703-001071	Inductor,330uH/10%,2012
L302	2703-001172	Inductor,100nH/5%,1608
L401	2703-001174	Inductor,33nH/5%,1608
L607	2703-001178	Inductor,3.3nH/0.3nH,1005
L327	2703-001179	Inductor,10nH/5%,1005
L175	2703-001290	Inductor,2.7nH/0.3nH,1608
L502,L503	2703-001308	Inductor,68nH/5%,1608
L177,L308,L600	2703-001409	Inductor,12nH/10%,1005
L320	2703-001544	Inductor,39nH/5%,1608
L250	2703-001595	Inductor,47nH/5%,1005
L300	2703-001685	Inductor,82nH/5%,1608
L326,L402	2703-001708	Inductor,5.6nH/5%,1005
L800	2703-001716	Inductor,22uH,1608
L323,L500	2703-001722	Inductor,18nH/5%,1005
L321,L322,L405,L406,L504,L505	2703-001723	Inductor,33nH/5%,1005
L507	2703-001726	Inductor,27nH/5%,1005
L324,L328,L329,L602	2703-001727	Inductor,22nH/5%,1005
L604	2703-001728	Inductor,1.5nH/0.3nH,1005
L301,L303,L501	2703-001732	Inductor,56nH/5%,1608
L305,L310	2703-001733	Inductor,8.2nH/5%,1005
L309,L325	2703-001734	Inductor,6.8nH/5%,1005



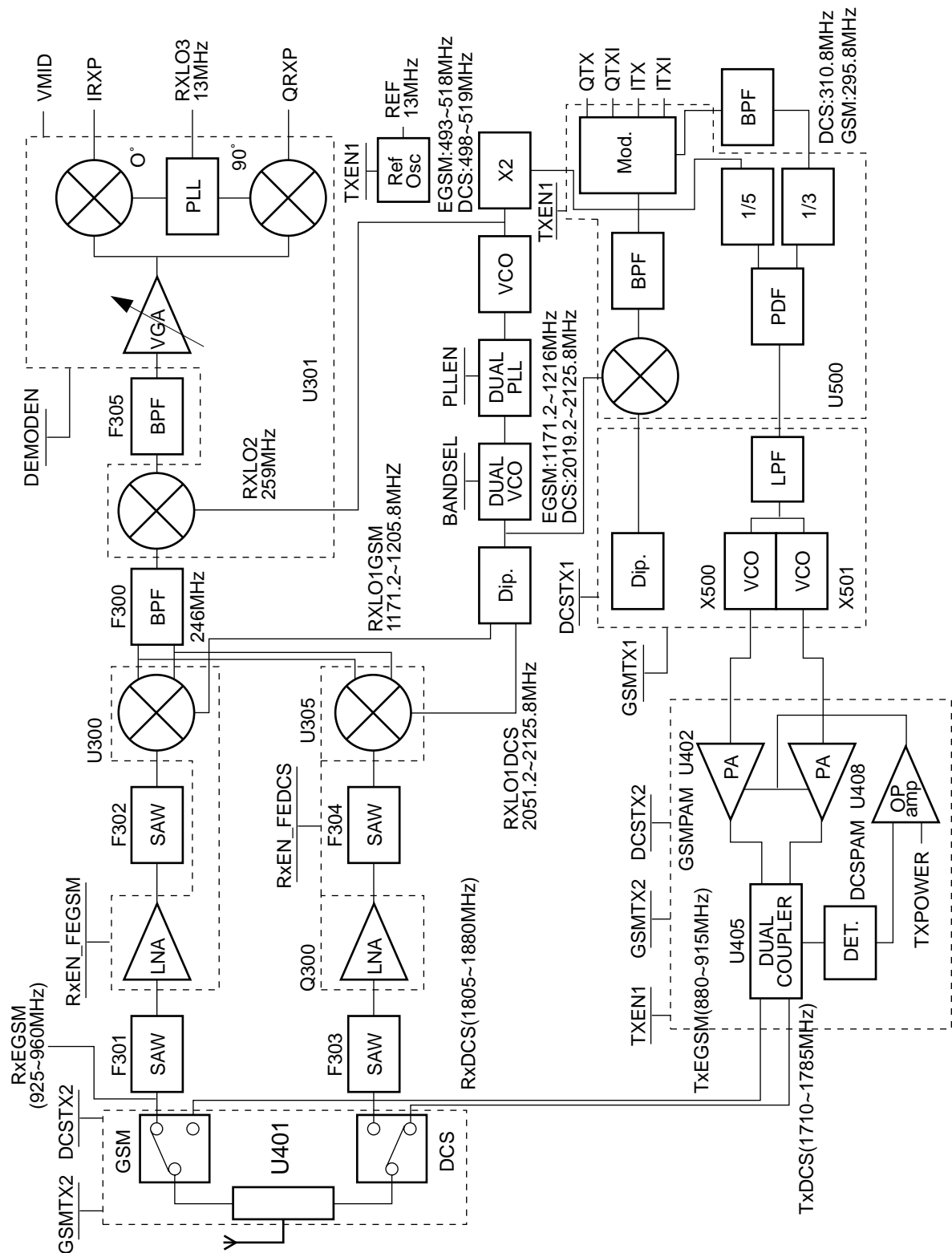
REFERENCE	SEC.CODE	DESCRIPTIONS
L306,L319	2703-001735	Inductor,3.9nH/10%,1005
L307,L603,L606	2703-001737	Inductor,2.7nH/0.3nH,1005
L251	2703-001740	Inductor,10uH/20%,1608
L601	2703-001794	Inductor,120nH/2%,1608
L318	2703-001798	Inductor, 2.2nH/5%,1005
L801	2703-001904	Inductor,4.7mH
X201	2801-003847	Crystal
X600	2806-001190	DUAL VCO,1171~1216MHz,3V,8mA,TP
X501	2806-001194	DCS TX VCO
X500	2806-001199	GSM TX VCO
X601	2809-001220	VCTCXO-13MHz
F305	2903-001203	Ceramic Filter
F303	2904-001093	Filter-SAW,1842.5MHz,75MHz
F300	2904-001146	Filter-SAW-AV,246MHz
F301	2904-001147	Filter-SAW-AV,942.5MHz
F304	2904-001170	DCS Filter
F302	2904-001175	GSM RX SAW
U401	2909-001086	ANTENNA SWITCH,942.5MHz,897.5MHz
F200,F201	3301-001208	Core-Ferrite Bead
J100	3709-001121	SIM CONNECTOR,6P,2.54mm,SMD-S
M950	3710-001105	CONNECTOR-SOCKET,2P,1.27mm,SMD-S
J176	3710-001302	I/F Connector,18P,0.5mm
J151	3710-001428	BTB Connector,24P,0.5mm
J901	3722-001380	Earphone jack,6P
U405	4709-001174	Directional Coupler,890-915/1710-1785MHz
R360,R359,R604,R615,R632,R989,R990,C130,C138,C176 C370,C380,C367,C369,C535,C643,C962,C963,L176,L311,L605		"SOT,NC"
C863	4302-001081	BATT/CAP250uAH 3.3V
J180	GH07-00023A	LCD
motor	GH31-10004A	Vibrator motor
W176	GH39-00041A	Semirigid Cable
PCB	GH41-00065A	SGH-2400 PCB
	GH42-00038A	ANTENNA
	GH59-00067A	KEYPAD ASS'Y
A176	GH71-00156A	ANTENNA CLIP
JIG	GH80-10508A	SGH-2400 TEST JIG
CABLE	GH39-30532A	SGH-2400 TEST JIG CABLE
TA	GH44-30549A	SGH-2400 TRAVEL ADAPTOR( EUROPE )
TA	GH44-30547A	SGH-2400 TRAVEL ADAPTOR( U.K )
TA CABLE	GH39-10504A	SGH-2400 TA CABLE
CLA	GH44-00040A	SGH-2400 CLA
DTC	GH44-00090A	DESK TOP CHARGE

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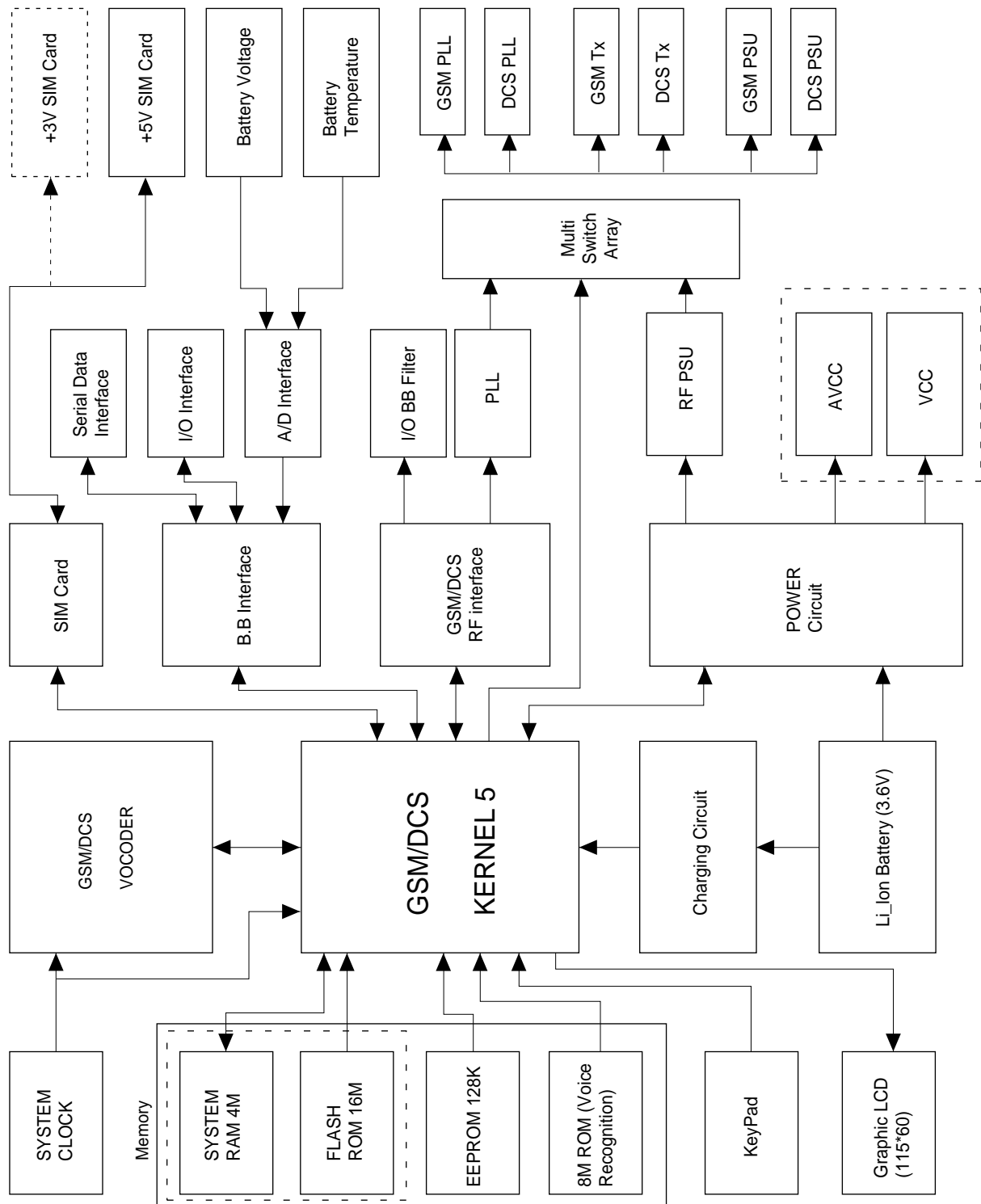
REFERENCE	SEC.CODE	DESCRIPTIONS
SLIM BATTERY		500mAh ( GREY )
SLIM BATTERY		500mAh ( BLACK )
STANDARD BATTERY	GH43-00143A	750mAh ( GREY )
STANDARD BATTERY	GH43-00143B	750mAh ( BLACK )
EXTENDED BATTERY		1000mAh ( GREY )
EXTENDED BATTERY		1000mAh (BLACK )
ULTRA EXTENDED BATTERY		1600mAh ( GREY )
ULTRA EXTENDED BATTERY		1600mAh ( BLACK )
DATA KIT	GH96-00774A	SGH-2400 DATA KIT
HFK		HANDS FREE KIT
EAR PHONE	GH96-00830A	EAR PHONE

## 3 Block Diagrams

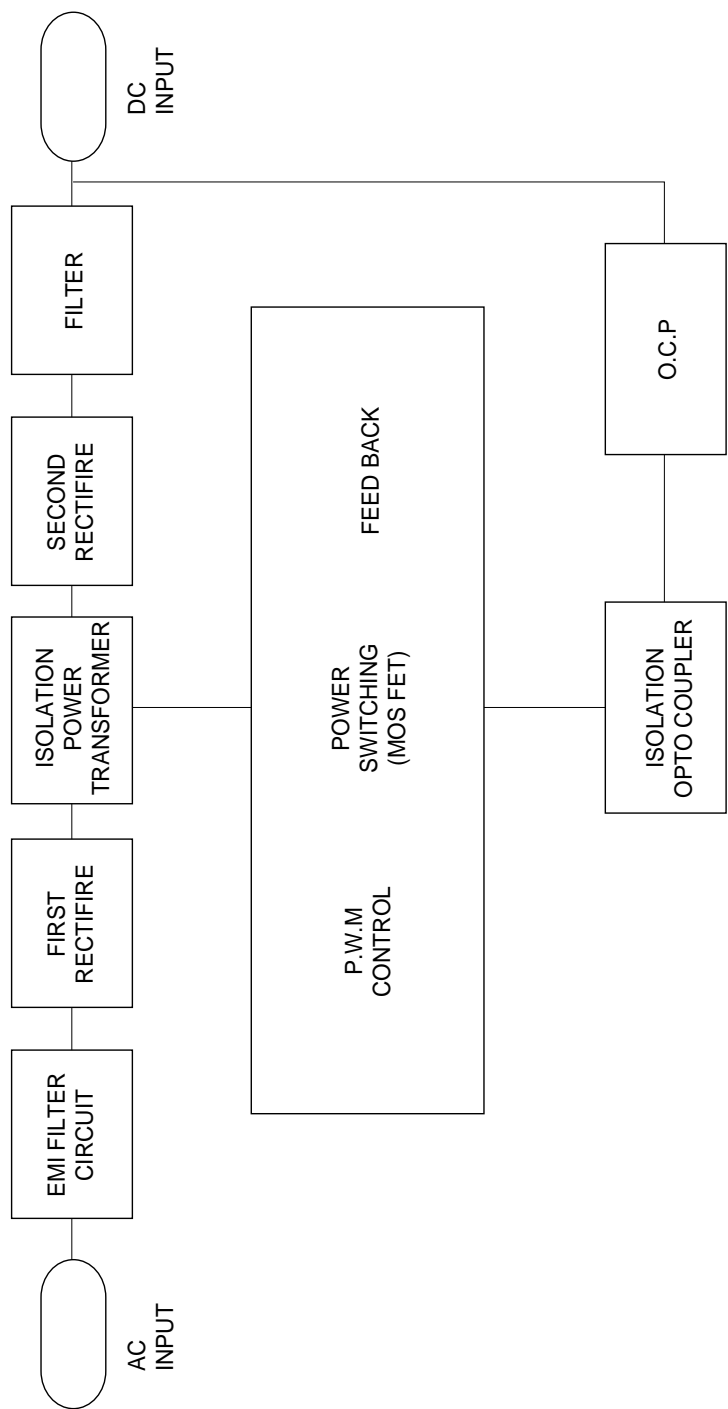
### 3-1 Main RF



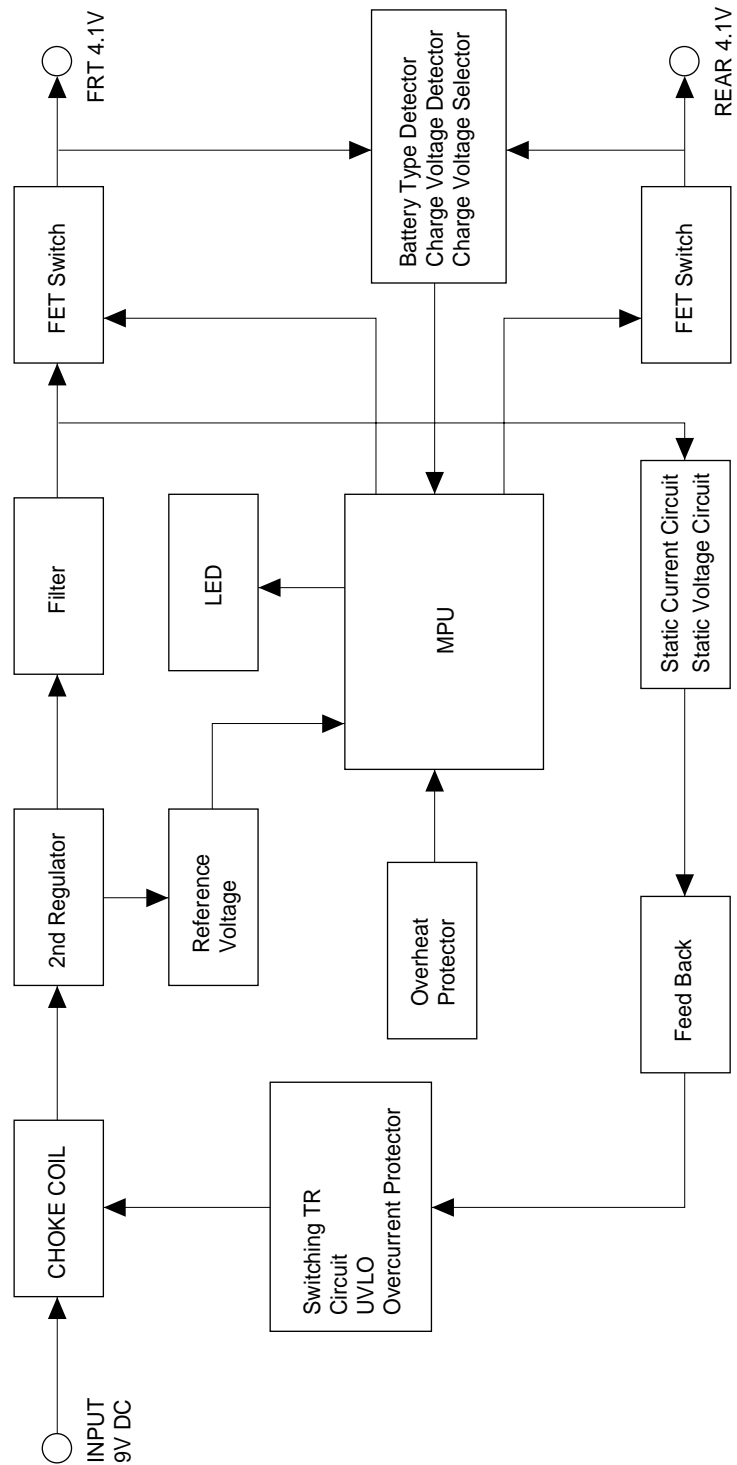
## 3-2 Main Base Band



### 3-3 Travel Adapter

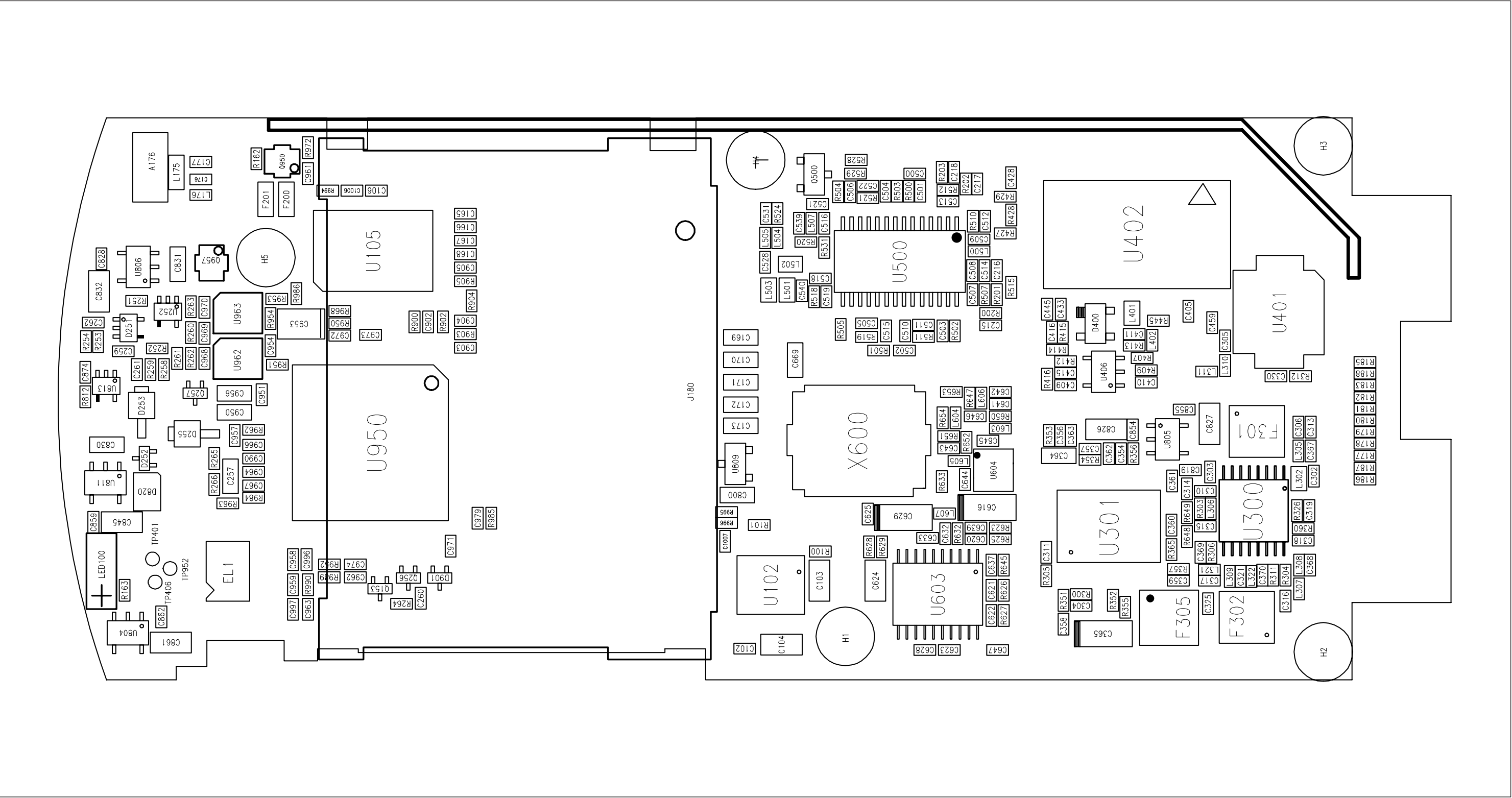


### 3-4 Desk Top Charger

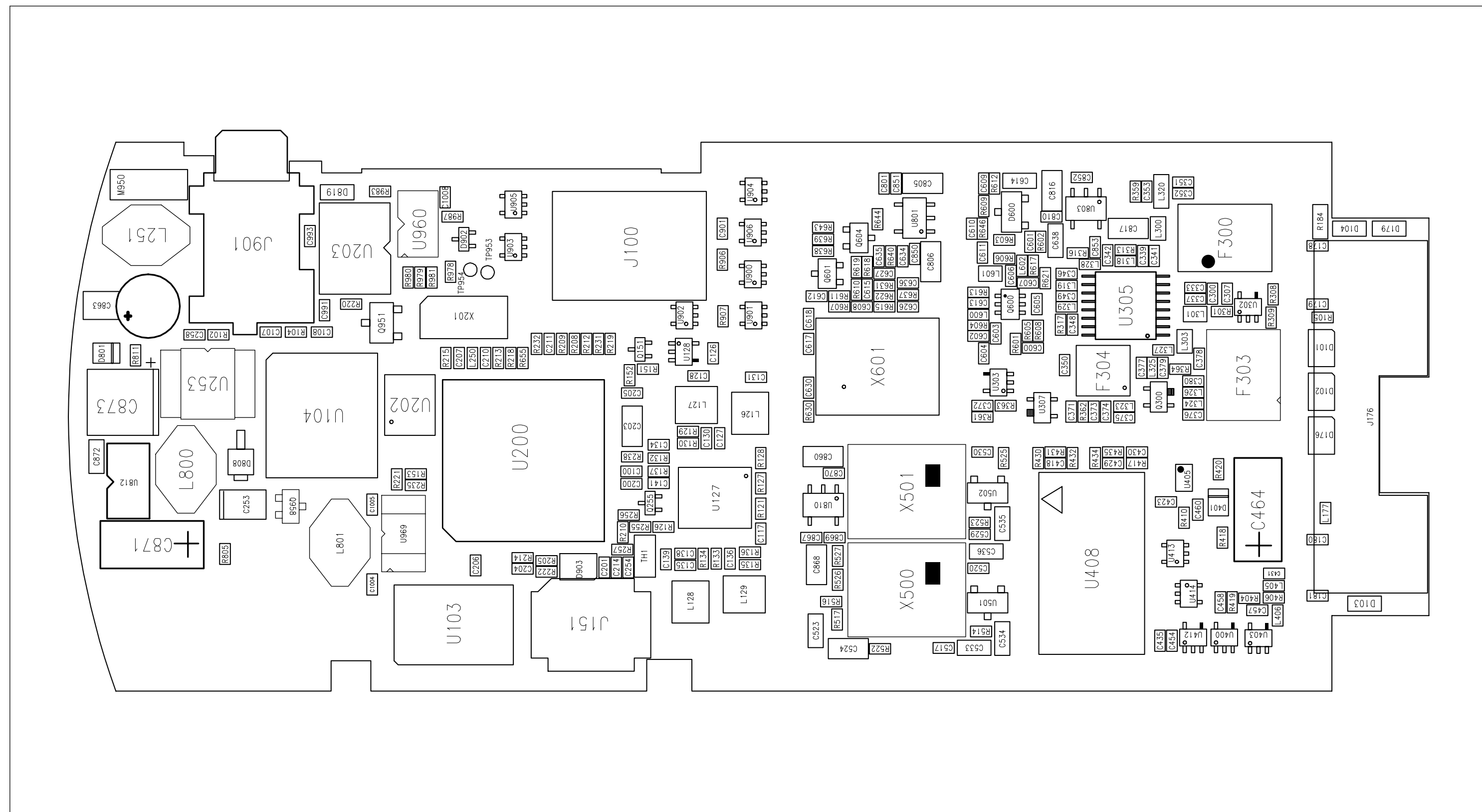


4. PCB Diagrams

4-1 Main Top



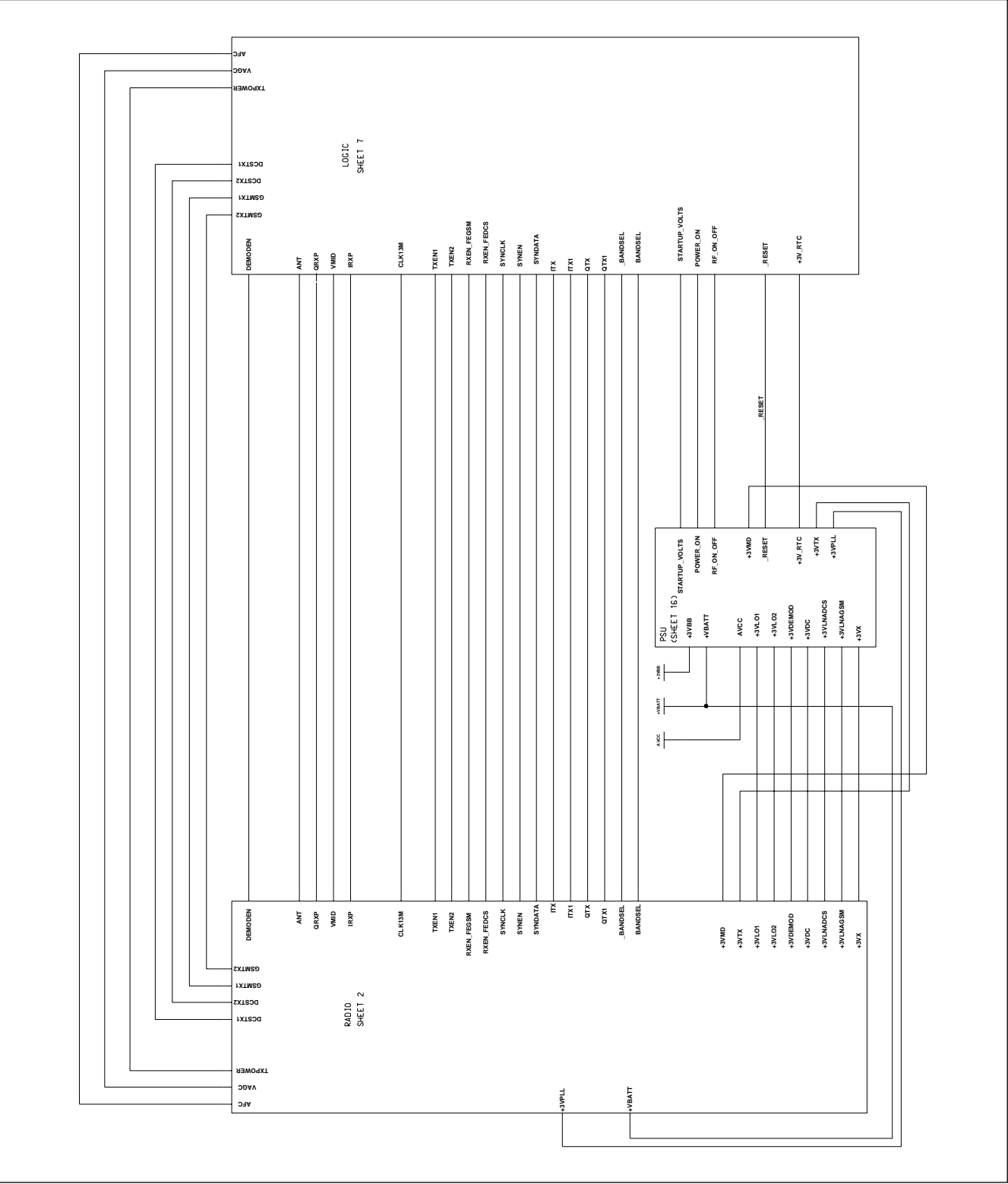
**4-2 Main Bottom**



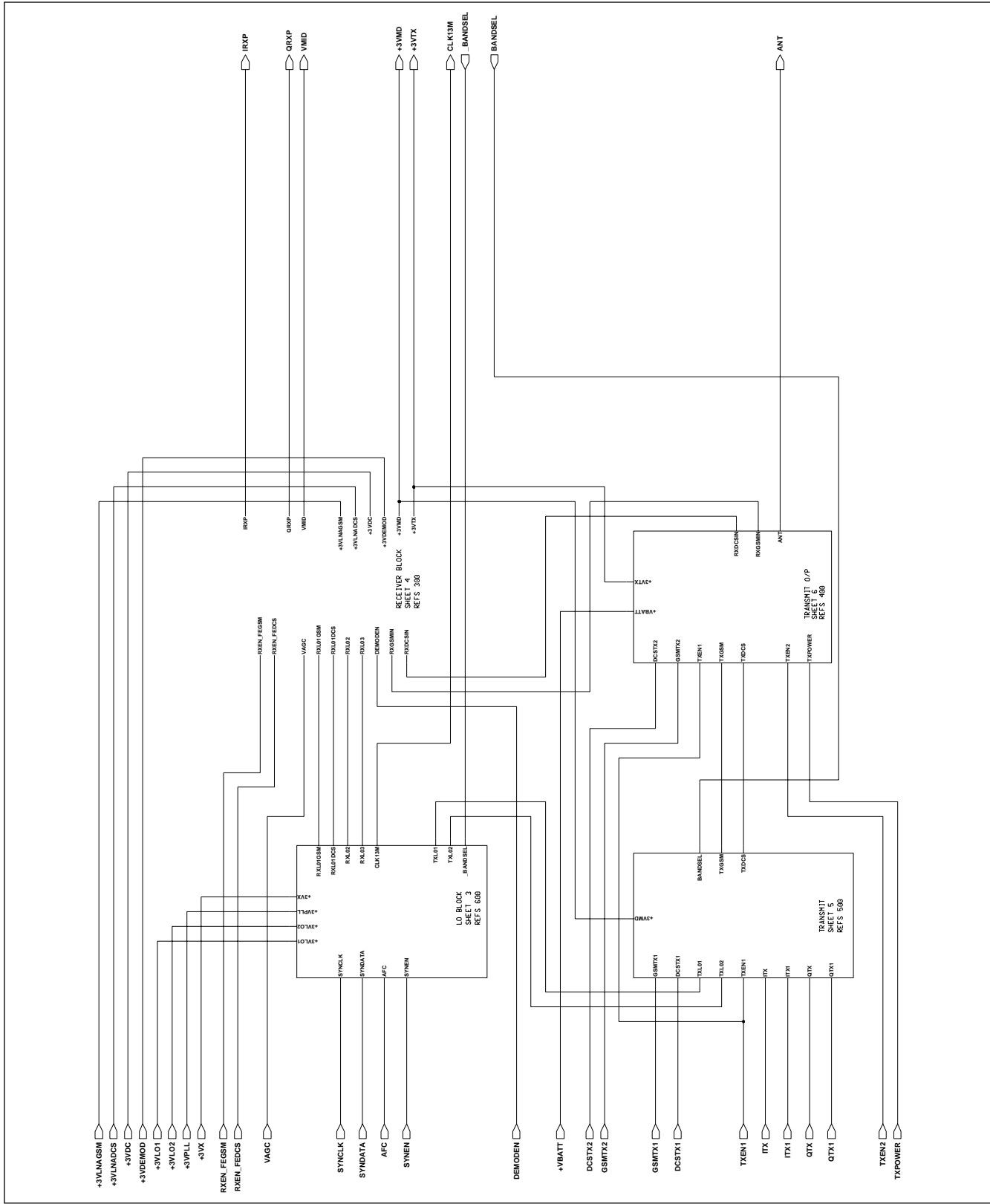


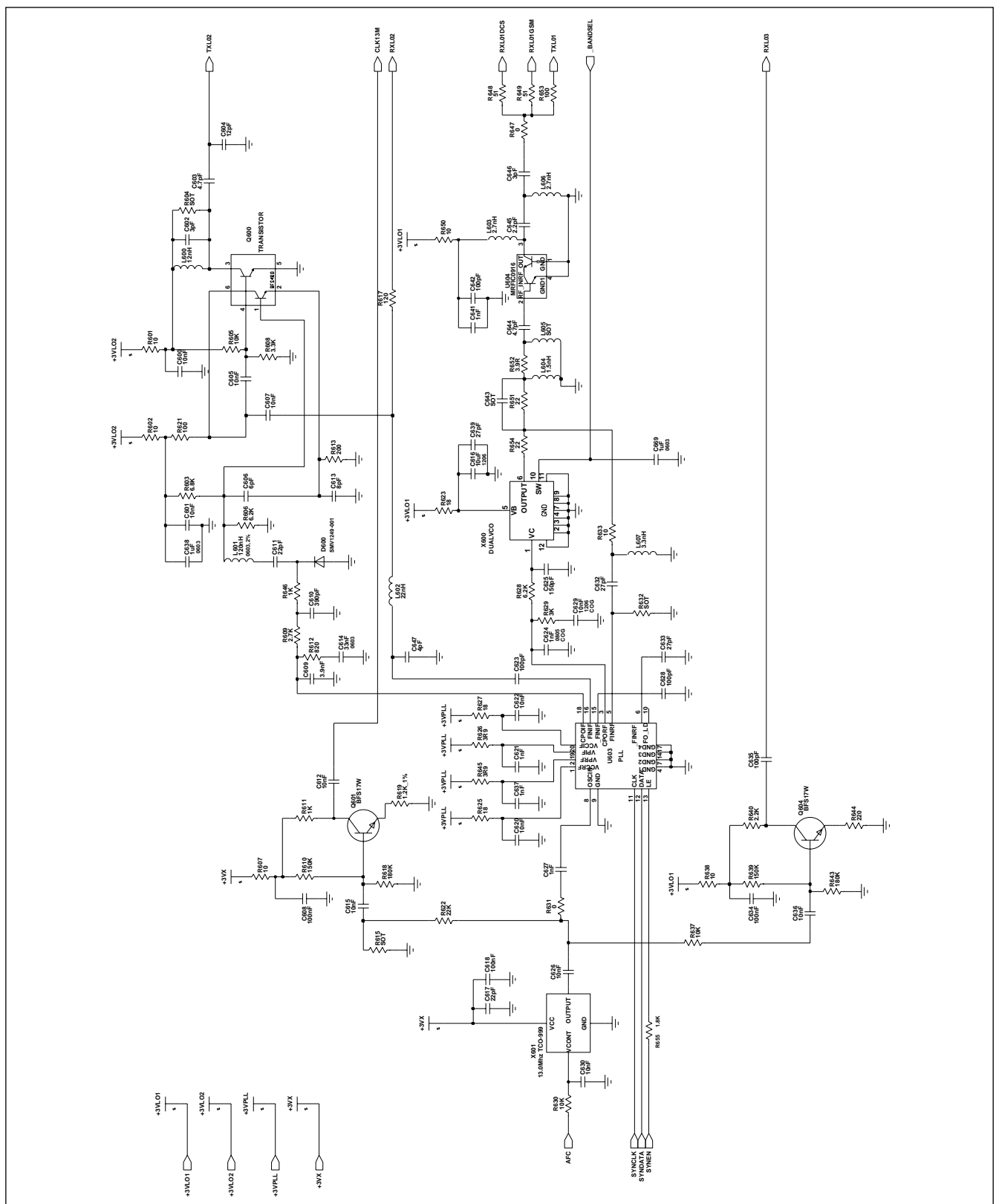
# 5. Schematic Diagrams

## 5-1 Top Level

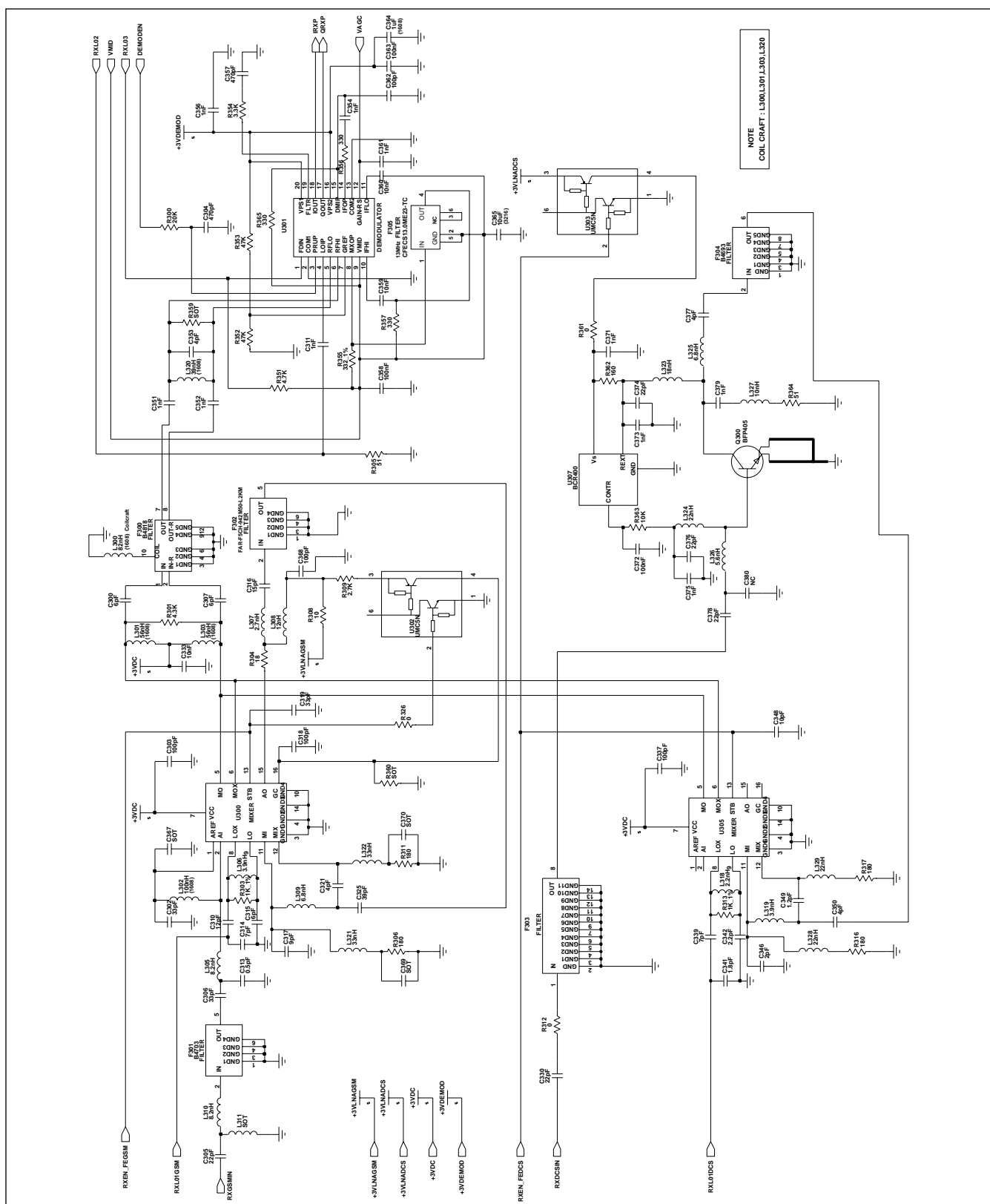


## 5-2 Radio

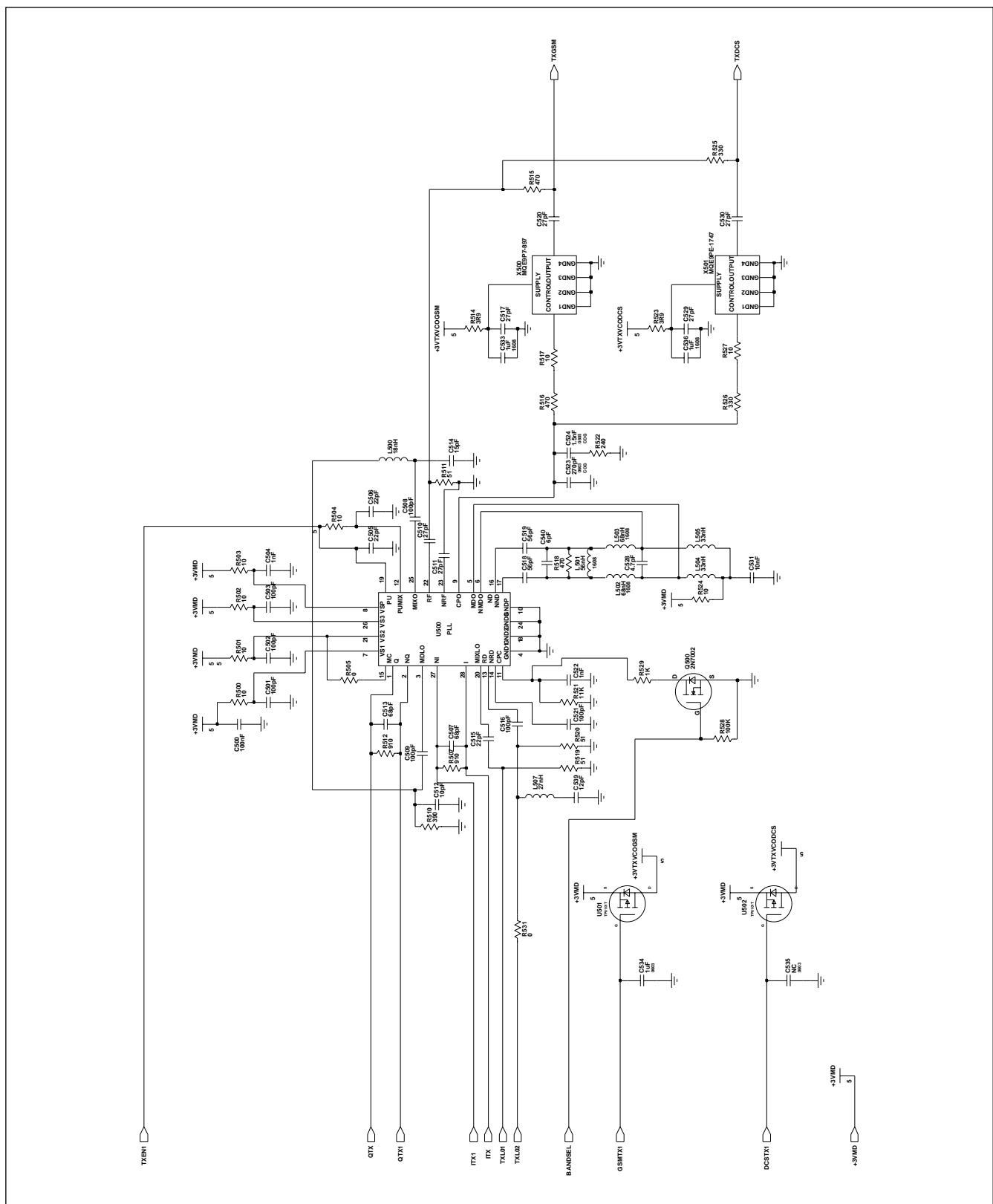




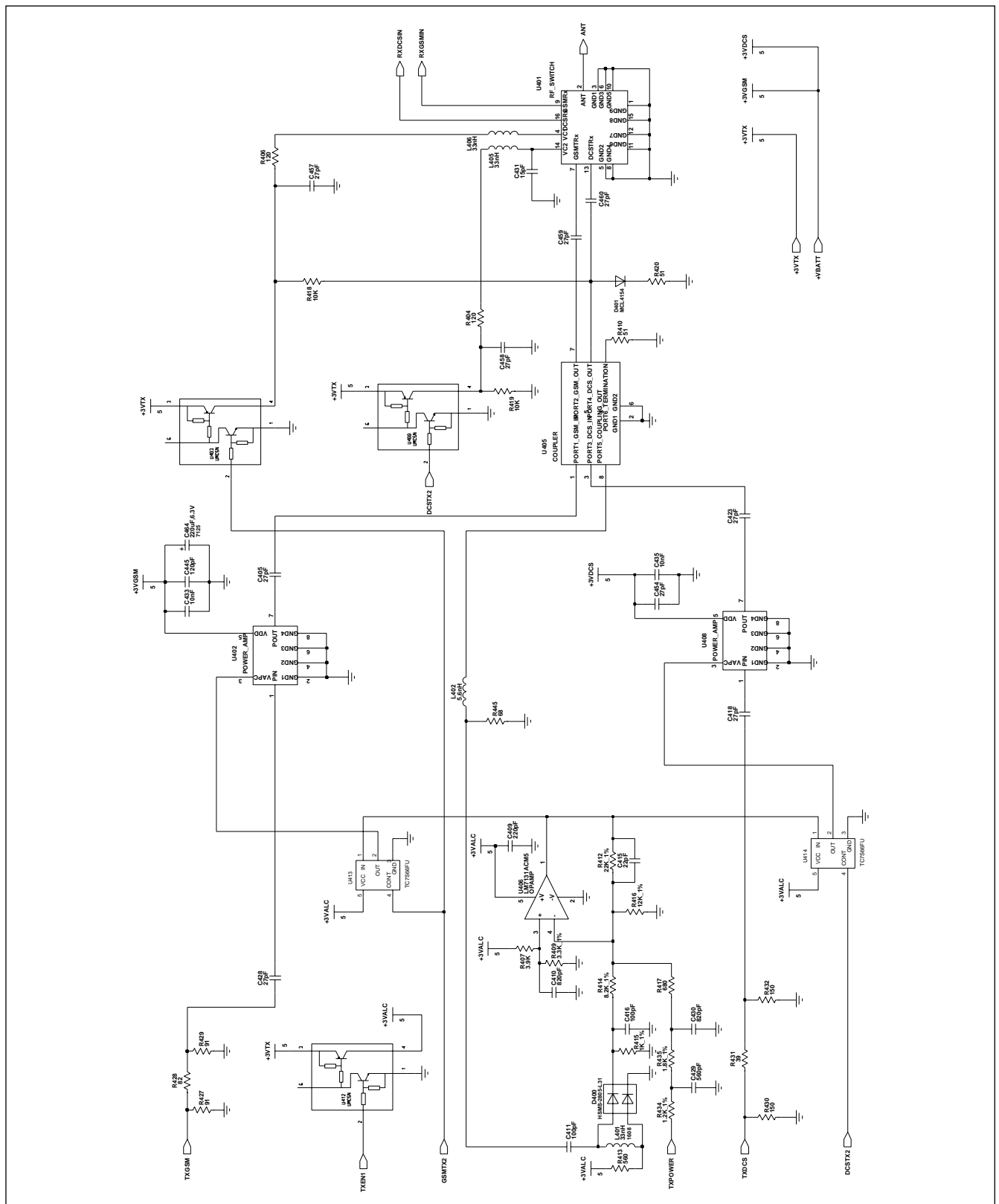
## 5-4 Receiver



## 5-5 Modulator & Tx Vco



## 5-6 Transmit Output Stage



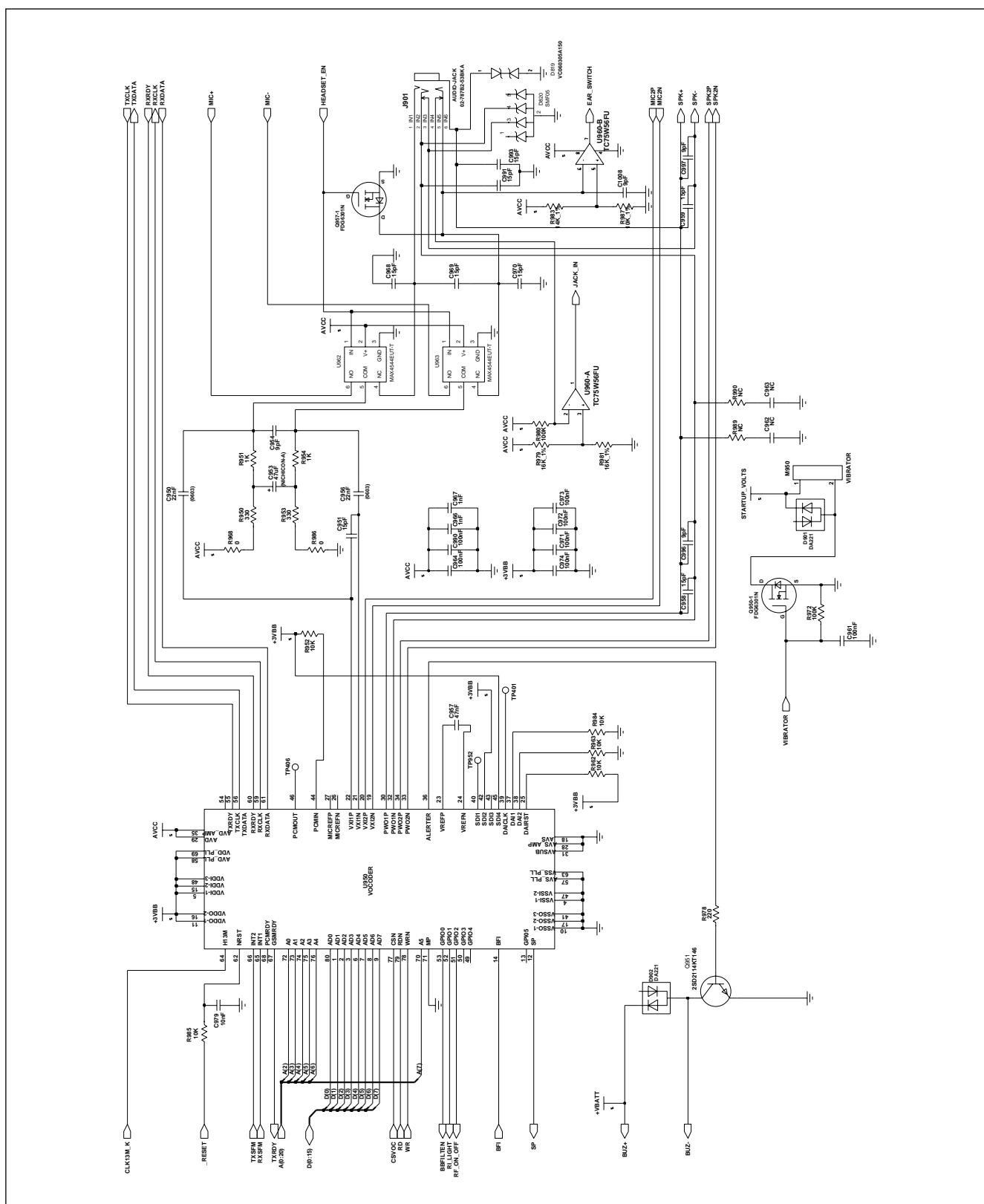
5-7



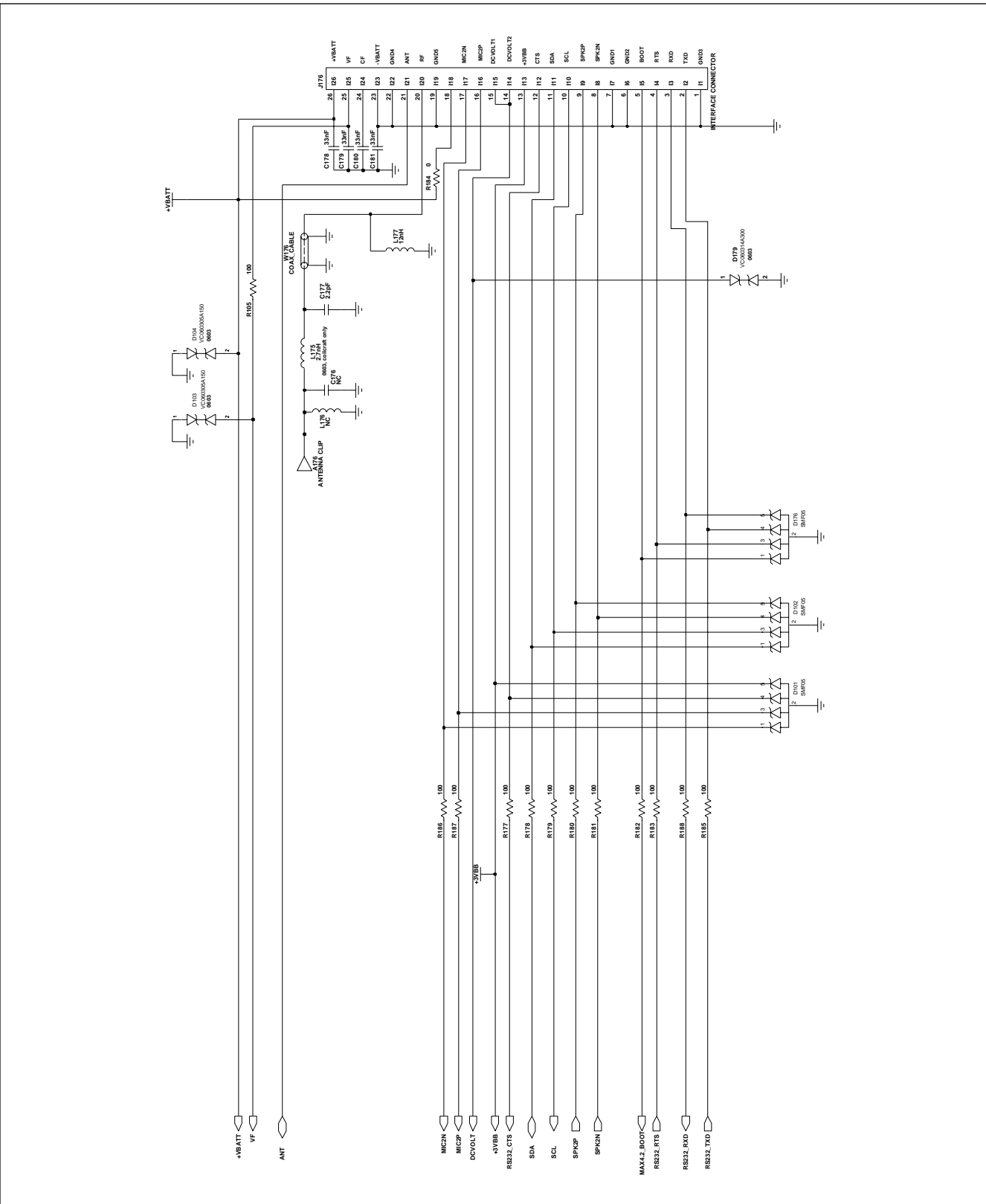
## Schematic Diagrams



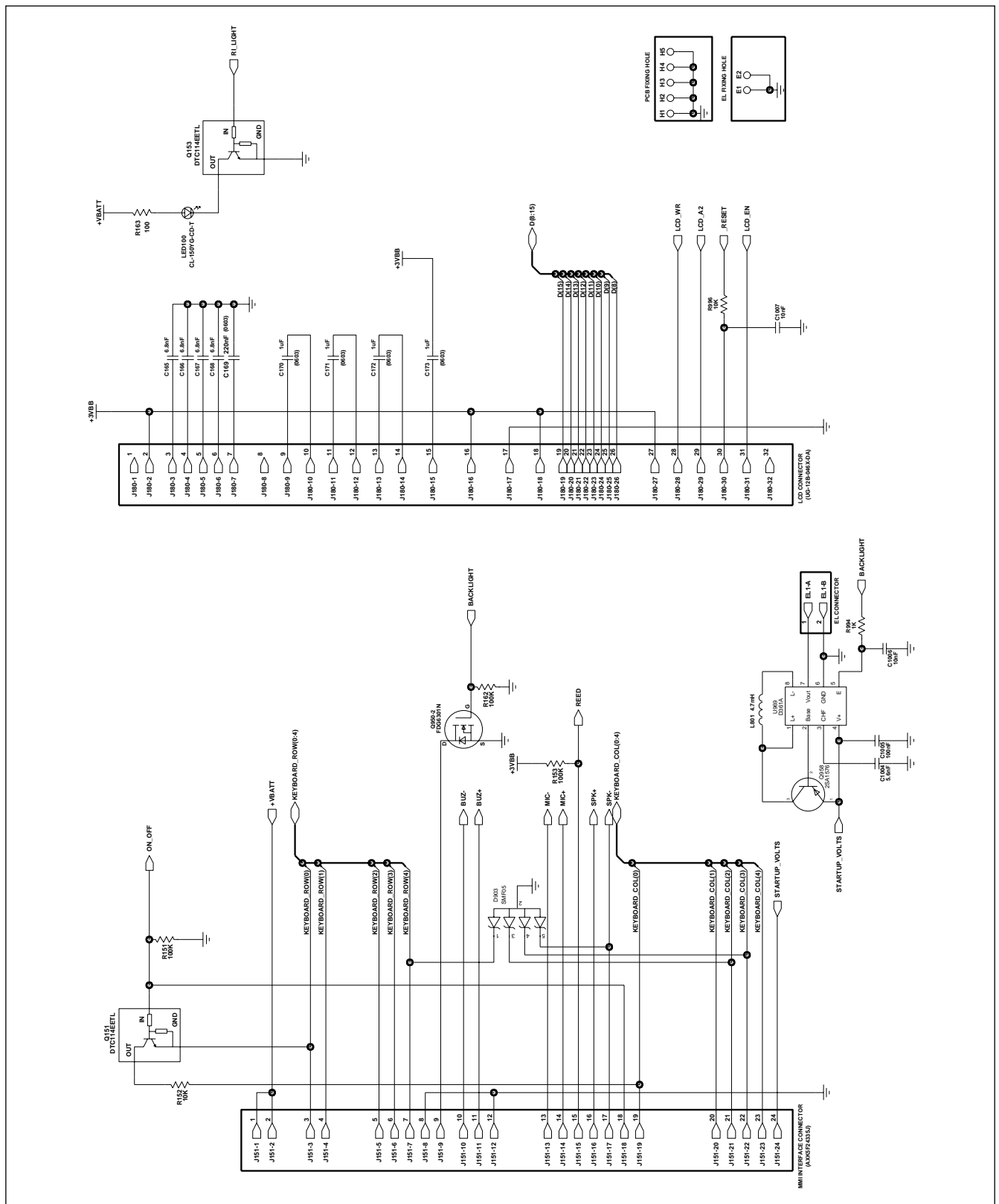




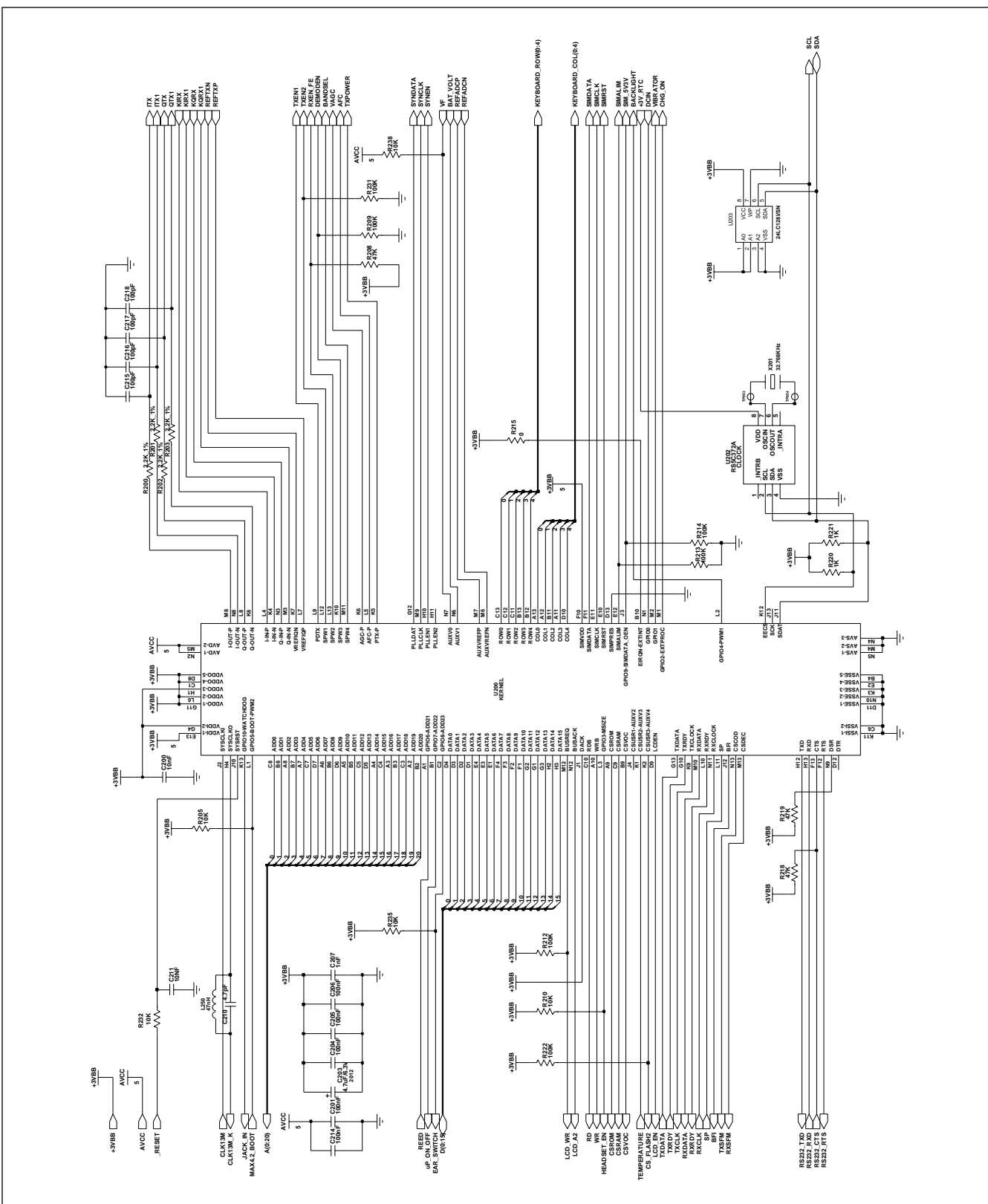
# 5-10 Interface Connector



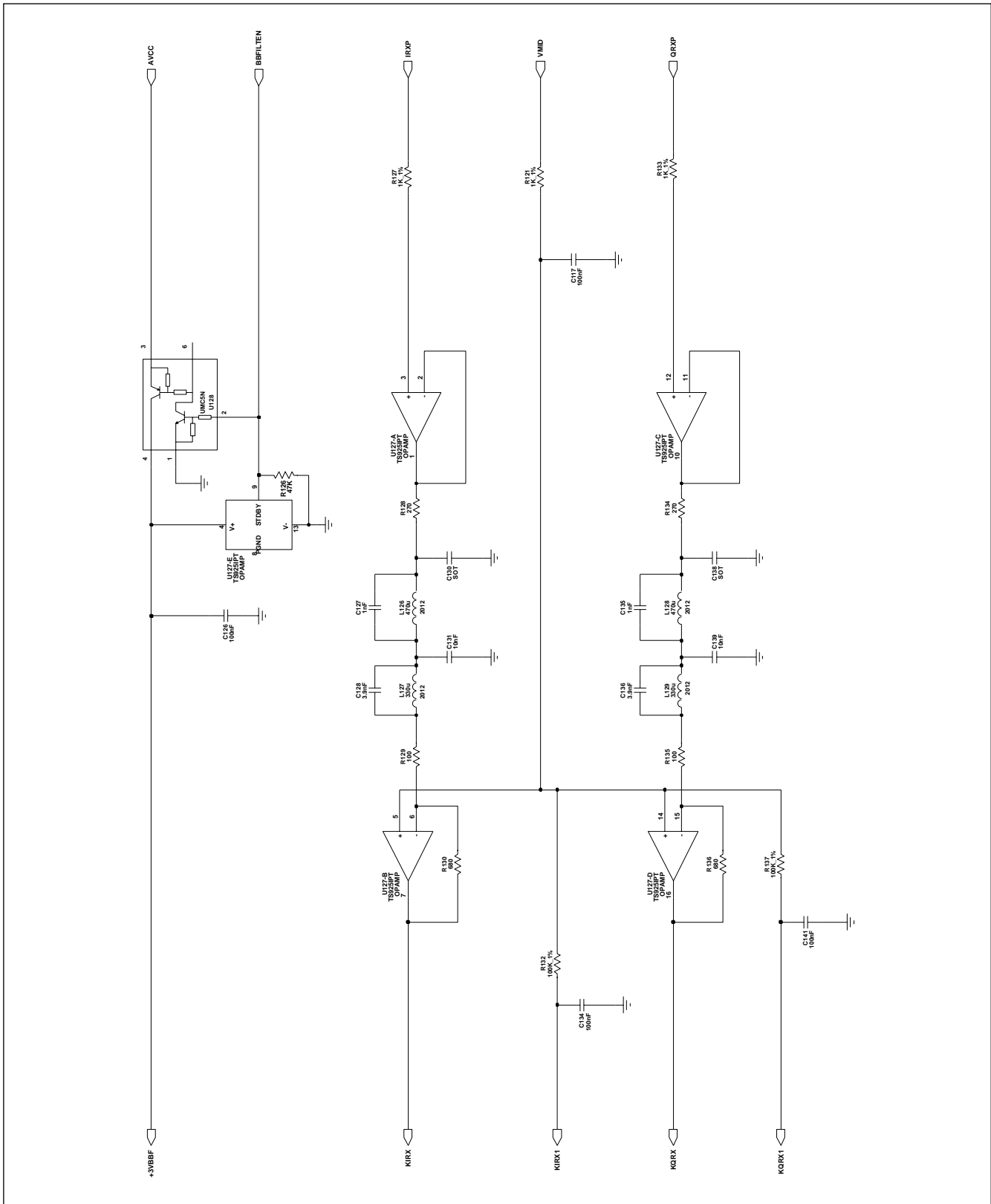
## 5-11 MMI Interface



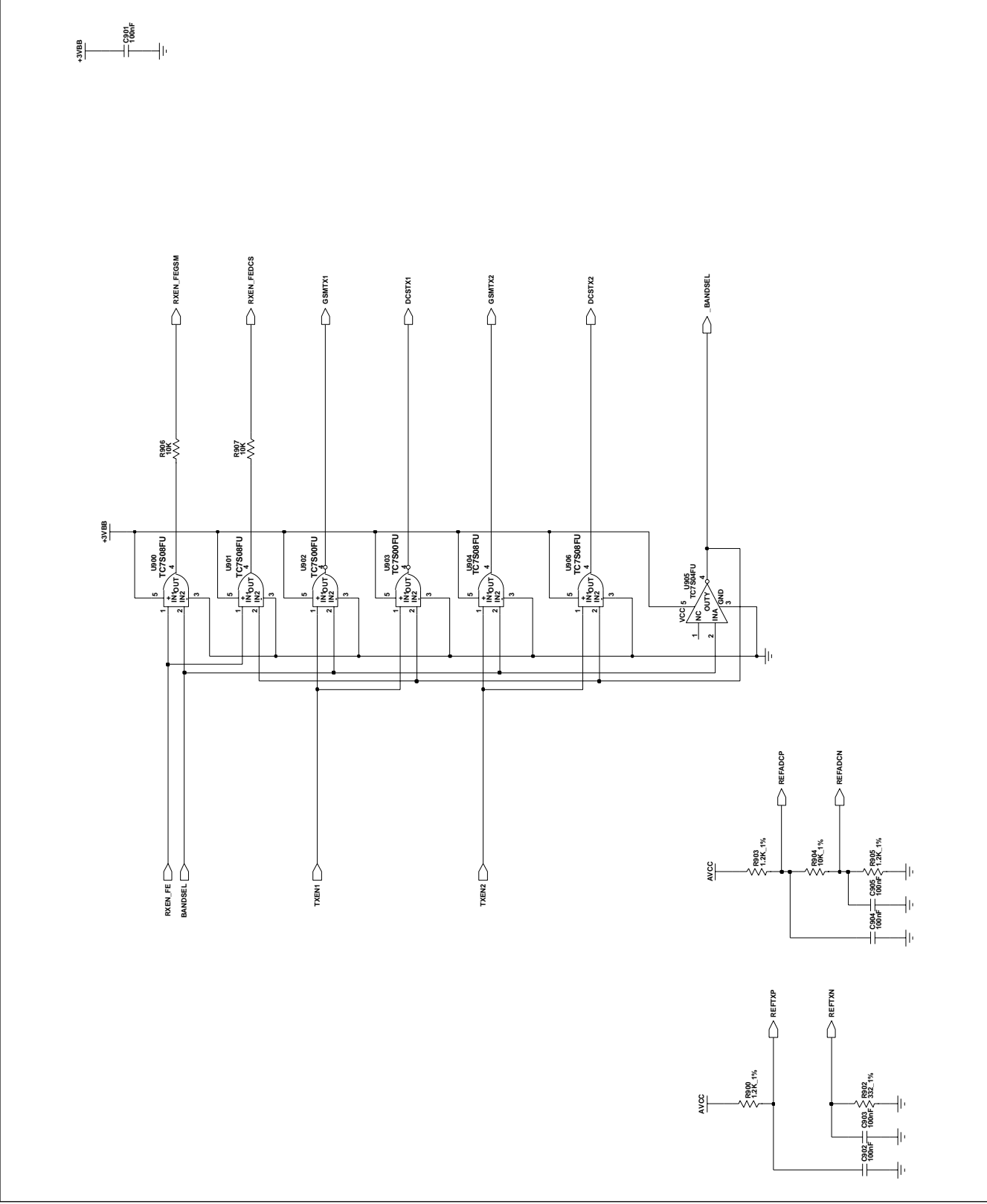
## 5-12 Kernel



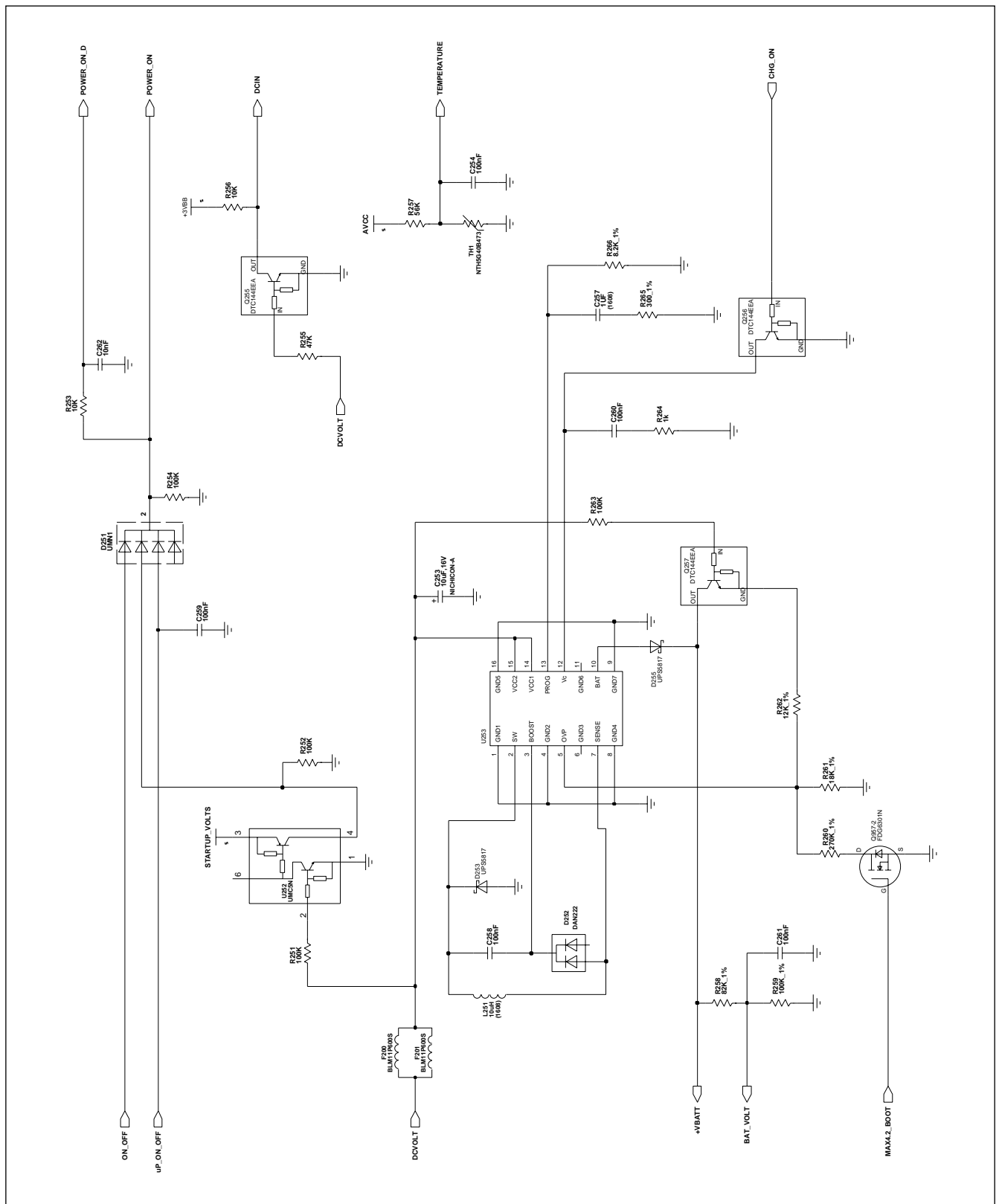
## 5-13 Baseband Filters



# 5-14 Control Logics



## 5-15 Power Management



## Schematic Diagrams

