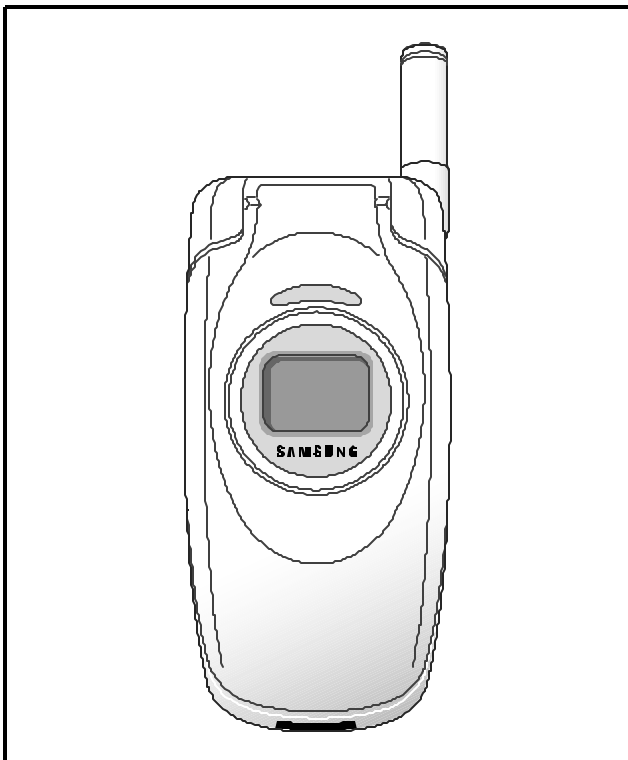


SAMSUNG

GSM TELEPHONE
SGH-S300

SERVICE *Manual*

GSM TELEPHONE



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3. Electrical Parts List
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1. SGH-S300 Specification

1. GSM General Specification

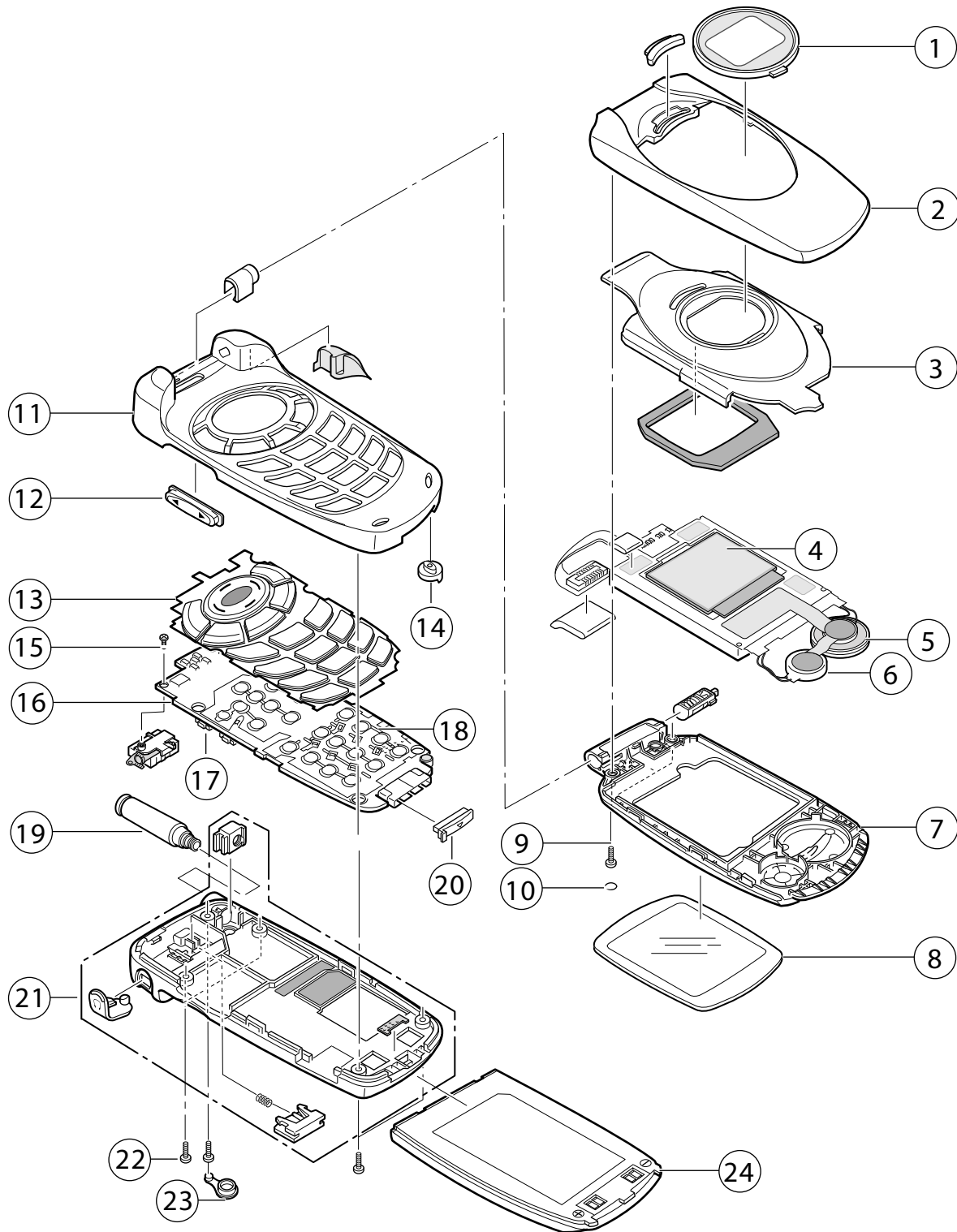
	GSM900 Phase 1	EGSM 900 Phase 2	DCS1800 Phase 1	PCS1900
Freq. Band[MHz] Uplink/Downlink	890~915 935~960	880~915 925~960	1710~1785 1805~1880	1850~1910 1930~1990
ARFCN range	1~124	0~124 & 975~1023	512~885	512~810
Tx/Rx spacing	45MHz	45MHz	95MHz	80MHz
Mod. Bit rate/ Bit Period	270.833kbps 3.692us	270.833kbps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

2. GSM TX power class

TX Power control level	GSM900	TX Power control level	DCS1800	TX Power control level	PCS1900
5	33 ±2 dBm	0	30 ±3 dBm	0	30 ±3 dBm
6	31 ±2 dBm	1	28 ±3 dBm	1	28 ±3 dBm
7	29 ±2 dBm	2	26 ±3 dBm	2	26 ±3 dBm
8	27 ±2 dBm	3	24 ±3 dBm	3	24 ±3 dBm
9	25 ±2 dBm	4	22 ±3 dBm	4	22 ±3 dBm
10	23 ±2 dBm	5	20 ±3 dBm	5	20 ±3 dBm
11	21 ±2 dBm	6	18 ±3 dBm	6	18 ±3 dBm
12	19 ±2 dBm	7	16 ±3 dBm	7	16 ±3 dBm
13	17 ±2 dBm	8	14 ±3 dBm	8	14 ±3 dBm
14	15 ±2 dBm	9	12 ±4 dBm	9	12 ±4 dBm
15	13 ±2 dBm	10	10 ±4 dBm	10	10 ±4 dBm
16	11 ±3 dBm	11	8 ±4dBm	11	8 ±4dBm
17	9 ±3dBm	12	6 ±4 dBm	12	6 ±4 dBm
18	7 ±3 dBm	13	4 ±4 dBm	13	4 ±4 dBm
19	5 ±3 dBm	14	2 ±5 dBm	14	2 ±5 dBm
		15	0 ±5 dBm	15	0 ±5 dBm

2. SGH-S300 Exploded View and its Parts list

1. Cellular phone Exploded View



2. Cellular phone Parts list

NO	Description	SEC.CODE	REMARK
1	DUAL WINDOW LCD	GH72 -05886A	
2	FOLDER UPPER	GH75 -02422A	
3	FOLDER DUMMY	GH75 -02341A	
4	LCD	GH07 -00230A	
5	SPEAKER	3001 -001341	
6	MOTOR	3101 -001315	
7	FOLDER LOWER	GH75 -02423A	
8	WINDOW LCD	GH72 -05887A	
9	SCREW	6001 -000464	
10	SCREW CAP	GH68 -02948A	
11	FRONT COVER	GH75 -02421A	
12	VOLME KEY	GH75 -02677A	
13	KEYPAD	GH75 -02424A	
14	MIC	GH59 -00574A	
15	SCREW	6001 -001530	
16	MAIN PBA	GH92 -01377A	
17	EAR JACK FPCB	GH59 -00612A	
18	DOME SHEET	GH59 -00605A	
19	ANTENNA	GH42 -00250A	
20	CONNECTOR COVER	GH73 -01536A	
21	REAR COVER	GH75 -02425A	
22	SCREW	6001 -001478	
23	RF TEST JACK COVER	GH73 -01535A	
24	BATTERY	GH43 -00718A	800MAH
		GH43 -00739A	600MAH

3. Test Jig (GH80-00865A)



3-1. RF Test Cable
(GH39-00090A)



3-2. Test Cable
(GH00-00127A)



3-3. Serial Cable



3-4. Power Supply Cable



3-5. DATA CABLE
(GH39-00159A)



3-6. TA
(GH44-00184A)



3. SGH-S300 MAIN Electrical Parts List

Level	SEC Code	Design LOC	Descriptions	
2	GH71-00734A	ANT1	NPR-CONTACT ANT	-,SCH-A475,PBS,4.7X2.5XT.01,-,-,-,-,GLD
2	2203-002677	C1002	C-CERAMIC,CHIP	0.75pF,0.1pF,50V,CH,TP,1005,-
2	2203-002668	C1003	C-CERAMIC,CHIP	0.0005nF,0.1pF,50V,NP0,TP,1005
2	2203-002677	C1007	C-CERAMIC,CHIP	0.75pF,0.1pF,50V,CH,TP,1005,-
2	2203-001598	C101	C-CERAMIC,CHIP	2200nF,+80-20%,16V,Y5V,TP,2012
2	2203-002677	C1011	C-CERAMIC,CHIP	0.75pF,0.1pF,50V,CH,TP,1005,-
2	2203-000812	C1012	C-CERAMIC,CHIP	0.033NF,5%,50V,C0G,TP,1005
2	2203-002677	C1014	C-CERAMIC,CHIP	0.75pF,0.1pF,50V,CH,TP,1005,-
2	2203-005234	C1015	C-CERAMIC,CHIP	0.0012nF,0.25pF,50V,NP0,TP,1005
2	2203-000812	C1016	C-CERAMIC,CHIP	0.033NF,5%,50V,C0G,TP,1005
2	2203-002677	C1017	C-CERAMIC,CHIP	0.75pF,0.1pF,50V,CH,TP,1005,-
2	2203-005234	C1019	C-CERAMIC,CHIP	0.0012nF,0.25pF,50V,NP0,TP,1005
2	2203-000995	C102	C-CERAMIC,CHIP	0.047NF,5%,50V,C0G,TP,1005
2	2203-000654	C1026	C-CERAMIC,CHIP	270pF,10%,50V,X7R,TP,1005,-
2	2203-000438	C1027	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1005,-
2	2203-000812	C103	C-CERAMIC,CHIP	0.033NF,5%,50V,C0G,TP,1005
2	2203-000254	C1038	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-005061	C104	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2404-001134	C1043	C-TA,CHIP	100UF,20%,6.3V,LZ,TP,4028
2	2404-001087	C1044	C-TA,CHIP	3.3UF,20%,6.3V,GP,TP,2012
2	2404-001087	C1045	C-TA,CHIP	3.3UF,20%,6.3V,GP,TP,2012
2	2203-000233	C1046	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-001598	C105	C-CERAMIC,CHIP	2200nF,+80-20%,16V,Y5V,TP,2012
2	2203-000812	C106	C-CERAMIC,CHIP	0.033NF,5%,50V,C0G,TP,1005
2	2203-000812	C107	C-CERAMIC,CHIP	0.033NF,5%,50V,C0G,TP,1005
2	2203-005061	C108	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-005481	C109	C-CERAMIC,CHIP	47nF,10%,10V,X7R,TP,1005,-
2	2203-001598	C111	C-CERAMIC,CHIP	2200nF,+80-20%,16V,Y5V,TP,2012
2	2203-001598	C112	C-CERAMIC,CHIP	2200nF,+80-20%,16V,Y5V,TP,2012
2	2203-001598	C113	C-CERAMIC,CHIP	2200nF,+80-20%,16V,Y5V,TP,2012
2	2203-001598	C114	C-CERAMIC,CHIP	2200nF,+80-20%,16V,Y5V,TP,2012
2	2203-001598	C115	C-CERAMIC,CHIP	2200nF,+80-20%,16V,Y5V,TP,2012
2	2203-001598	C116	C-CERAMIC,CHIP	2200nF,+80-20%,16V,Y5V,TP,2012
2	2203-001598	C117	C-CERAMIC,CHIP	2200nF,+80-20%,16V,Y5V,TP,2012
2	2203-000233	C118	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-005061	C119	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-001598	C120	C-CERAMIC,CHIP	2200nF,+80-20%,16V,Y5V,TP,2012
2	2203-001598	C123	C-CERAMIC,CHIP	2200nF,+80-20%,16V,Y5V,TP,2012
2	2203-005061	C124	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-005061	C125	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2404-001268	C126	C-TA,CHIP	10UF,20%,10V,-,TP,2.2X1.25X1.0
2	2404-001268	C127	C-TA,CHIP	10UF,20%,10V,-,TP,2.2X1.25X1.0
2	2203-005065	C128	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608
2	2203-005480	C200	C-CERAMIC,CHIP	33nF,10%,10V,X7R,TP,1005,-
2	2203-005065	C204	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608
2	2203-005509	C205	C-CERAMIC,CHIP	330nF,+80-20%,10V,Y5V,TP,1005
2	2203-005061	C206	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-000233	C207	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-005061	C208	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005

Level	SEC Code	Design LOC	Descriptions	
2	2203-000233	C209	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-000233	C210	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-000233	C211	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-000233	C212	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-000233	C213	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-005061	C302	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-005509	C400	C-CERAMIC,CHIP	330nF,+80-20%,10V,Y5V,TP,1005
2	2203-000654	C401	C-CERAMIC,CHIP	270pF,10%,50V,X7R,TP,1005,-
2	2203-005061	C402	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-001405	C403	C-CERAMIC,CHIP	22nF,+80-20%,25V,Y5V,TP,1005
2	2404-001086	C404	C-TA,CHIP	4.7uF,20%,6.3V,GP,TP,2012,-
2	2203-000233	C407	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-005061	C408	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2404-001151	C409	C-TA,CHIP	33UF,20%,6.3V,LZ,TP,3216
2	2404-001086	C410	C-TA,CHIP	4.7uF,20%,6.3V,GP,TP,2012,-
2	2203-000438	C411	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1005,-
2	2007-000070	C412	R-CHIP	0ohm,5%,1/16W,DA,TP,1608
2	2203-001153	C413	C-CERAMIC,CHIP	0.068nF,5%,50V,NP0,TP,1005
2	1405-001082	C414	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	2203-001153	C415	C-CERAMIC,CHIP	0.068nF,5%,50V,NP0,TP,1005
2	2203-000679	C416	C-CERAMIC,CHIP	0.027NF,5%,50V,C0G,TP,1005
2	2203-005065	C417	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608
2	2404-001268	C418	C-TA,CHIP	10UF,20%,10V,-,TP,2.2X1.25X1.0
2	2203-005061	C419	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-000995	C420	C-CERAMIC,CHIP	0.047NF,5%,50V,C0G,TP,1005
2	2203-000278	C450	C-CERAMIC,CHIP	0.01NF,0.5PF,50V,C0G,TP,1005
2	2203-000812	C451	C-CERAMIC,CHIP	0.033NF,5%,50V,C0G,TP,1005
2	2203-000278	C452	C-CERAMIC,CHIP	0.01NF,0.5PF,50V,C0G,TP,1005
2	2404-001268	C453	C-TA,CHIP	10UF,20%,10V,-,TP,2.2X1.25X1.0
2	2203-000278	C455	C-CERAMIC,CHIP	0.01NF,0.5PF,50V,C0G,TP,1005
2	1405-001082	C456	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	2203-000359	C457	C-CERAMIC,CHIP	0.15NF,5%,50V,C0G,TP,1005
2	2203-000995	C458	C-CERAMIC,CHIP	0.047NF,5%,50V,C0G,TP,1005
2	2203-005061	C460	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-000233	C461	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-000278	C490	C-CERAMIC,CHIP	0.01NF,0.5PF,50V,C0G,TP,1005
2	2203-005480	C504	C-CERAMIC,CHIP	33nF,10%,10V,X7R,TP,1005,-
2	2203-005061	C513	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-005061	C518	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-005061	C519	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-000254	C600	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-005496	C601	C-CERAMIC,CHIP	220nF,+80-20%,10V,Y5V,TP,1005
2	2203-005496	C602	C-CERAMIC,CHIP	220nF,+80-20%,10V,Y5V,TP,1005
2	2203-000254	C603	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000254	C604	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000254	C605	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000254	C606	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000254	C607	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000254	C608	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-

Level	SEC Code	Design LOC	Descriptions	
2	2203-001405	C611	C-CERAMIC,CHIP	22nF,+80-20%,25V,Y5V,TP,1005
2	2203-005061	C612	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-005061	C613	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-000233	C614	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-000628	C615	C-CERAMIC,CHIP	0.022NF,5%,50V,C0G,TP,1005
2	2203-000628	C616	C-CERAMIC,CHIP	0.022NF,5%,50V,C0G,TP,1005
2	2203-000679	C617	C-CERAMIC,CHIP	0.027NF,5%,50V,C0G,TP,1005
2	2203-005482	C618	C-CERAMIC,CHIP	100nF,10%,10V,X5R,TP,1005,-
2	2203-000995	C619	C-CERAMIC,CHIP	0.047NF,5%,50V,C0G,TP,1005
2	2203-000233	C620	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-005052	C700	C-CERAMIC,CHIP	0.0033nF,0.25pF,50V,NP0,TP,1005
2	2203-000628	C708	C-CERAMIC,CHIP	0.022NF,5%,50V,C0G,TP,1005
2	2203-005496	C709	C-CERAMIC,CHIP	220nF,+80-20%,10V,Y5V,TP,1005
2	2203-005065	C710	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608
2	2203-005061	C711	C-CERAMIC,CHIP	100nF,+80-20%,16V,Y5V,TP,1005
2	2203-000254	C712	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000254	C713	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000254	C714	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000254	C716	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000254	C717	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000254	C718	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000233	C720	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-000233	C721	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-000233	C722	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-005450	C723	C-CERAMIC,CHIP	0.0056nF,0.1pF,50V,NP0,TP,1005
2	2203-000278	C800	C-CERAMIC,CHIP	0.01NF,0.5PF,50V,C0G,TP,1005
2	2203-000438	C802	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1005,-
2	2203-000438	C803	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1005,-
2	2203-000254	C805	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000438	C806	C-CERAMIC,CHIP	1nF,10%,50V,X7R,TP,1005,-
2	2203-000254	C807	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000254	C808	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-000254	C809	C-CERAMIC,CHIP	10nF,10%,16V,X7R,TP,1005,-
2	2203-001405	C903	C-CERAMIC,CHIP	22nF,+80-20%,25V,Y5V,TP,1005
2	2203-001405	C905	C-CERAMIC,CHIP	22nF,+80-20%,25V,Y5V,TP,1005
2	2203-001405	C906	C-CERAMIC,CHIP	22nF,+80-20%,25V,Y5V,TP,1005
2	2203-001405	C908	C-CERAMIC,CHIP	22nF,+80-20%,25V,Y5V,TP,1005
2	2203-001405	C910	C-CERAMIC,CHIP	22nF,+80-20%,25V,Y5V,TP,1005
2	2203-000233	C911	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-000278	C914	C-CERAMIC,CHIP	0.01NF,0.5PF,50V,C0G,TP,1005
2	2203-001405	C915	C-CERAMIC,CHIP	22nF,+80-20%,25V,Y5V,TP,1005
2	2203-000233	C916	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	2203-000278	C917	C-CERAMIC,CHIP	0.01NF,0.5PF,50V,C0G,TP,1005
2	2203-001405	C921	C-CERAMIC,CHIP	22nF,+80-20%,25V,Y5V,TP,1005
2	2203-000995	C922	C-CERAMIC,CHIP	0.047NF,5%,50V,C0G,TP,1005
2	2203-000812	C923	C-CERAMIC,CHIP	0.033NF,5%,50V,C0G,TP,1005
2	2203-000233	C924	C-CERAMIC,CHIP	0.1NF,5%,50V,C0G,TP,1005
2	3709-001244	CN100	CONNECTOR - CARD EDGE	6P,2MM,-,AU

Level	SEC Code	Design LOC	Descriptions	
2	3705-001226	CN1001	CONNECTOR - COAXIAL	MCX,JACK,75MOHM,50OHM,0.45DB
2	3711-005078	CN200	CONNECTOR - HEADER	BOX,34P,2R,0.4MM,SMD - S,AU,BLK
2	3710-001816	CN302	CONNECTOR - SOCKET	18P,1R,0.5MM,ANGLE,AU
2	0407-000115	D100	DIODE - ARRAY	DAN202U,80V,100mA,CA2-3,SC-70,
2	1405-001018	D300	VARISTOR	14V,-,1.6x0.8mm,TP
2	2909-001191	F1002	FILTER - DUPLEXER	942.5MHZ,897.5MHZ,1.14/3.43DB,TP,-,-
2	2904-001410	F1005	FILTER - SAW	1.96GHZ,-,1930-1990MHZ/2.4DB,TP,1930-1990
2	2901-001193	F200	FILTER - EMI SMD	25V,0.1A,-,35pF,3.2x1.6x0.75MM,TP
2	2901-001193	F201	FILTER - EMI SMD	25V,0.1A,-,35pF,3.2x1.6x0.75MM,TP
2	2901-001193	F202	FILTER - EMI SMD	25V,0.1A,-,35pF,3.2x1.6x0.75MM,TP
2	2901-001193	F203	FILTER - EMI SMD	25V,0.1A,-,35pF,3.2x1.6x0.75MM,TP
2	2901-001193	F204	FILTER - EMI SMD	25V,0.1A,-,35pF,3.2x1.6x0.75MM,TP
2	2703-001907	L1001	INDUCTOR - SMD	27nH,2%,1.8x1.12x1.02mm
2	2703-002165	L1002	INDUCTOR - SMD	7.5nH,5%,1.6x1.12x1.02 mm
2	2703-002547	L1006	INDUCTOR - SMD	6.8NH,0.2NH,1.6X0.8X0.8MM
2	2703-001543	L1007	INDUCTOR - SMD	33nH,5%,1.8x1.12x1.02mm
2	2203-005056	L1011	C - CERAMIC,CHIP	0.0068nF,0.25pF,50V,NP0,TP,1005
2	2703-001180	L1013	INDUCTOR - SMD	15nH,5%,1x0.5x0.5mm
2	2703-001992	L1014	INDUCTOR - SMD	1nH,0.3nH,1.0x0.5x0.5mm
2	2703-001733	L1015	INDUCTOR - SMD	8.2nH,5%,1x0.5x0.5mm
2	3301-001105	L801	CORE - FERRITE	AB,1.6x0.8x0.8mm,-,-
2	2703-001751	L900	INDUCTOR - SMD	3.9nH,0.3nH,1.0x0.5x0.5mm
2	0604-001261	LED200	PHOTO - IRDA	115.2KB/S,875NM,500MW,30DEG,TP
2	0601-001547	LED201	LED	CHIP,BLUE,1.1X0.8MM,468NM
2	0601-001547	LED202	LED	CHIP,BLUE,1.1X0.8MM,468NM
2	0601-001547	LED203	LED	CHIP,BLUE,1.1X0.8MM,468NM
2	0601-001547	LED204	LED	CHIP,BLUE,1.1X0.8MM,468NM
2	0601-001547	LED205	LED	CHIP,BLUE,1.1X0.8MM,468NM
2	0601-001547	LED206	LED	CHIP,BLUE,1.1X0.8MM,468NM
2	0601-001547	LED208	LED	CHIP,BLUE,1.1X0.8MM,468NM
2	0601-001547	LED209	LED	CHIP,BLUE,1.1X0.8MM,468NM
2	0601-001547	LED211	LED	CHIP,BLUE,1.1X0.8MM,468NM
2	0601-001547	LED212	LED	CHIP,BLUE,1.1X0.8MM,468NM
2	0601-001547	LED214	LED	CHIP,BLUE,1.1X0.8MM,468NM
2	0601-001547	LED215	LED	CHIP,BLUE,1.1X0.8MM,468NM
2	4302-001130	M1	BATTERY - LI(2ND)	3V,0.1MAH,-,-,3.1V,-
2	2801-003747	OSC601	CRYSTAL - SMD	.032768MHZ,30PPM,28 - ACM,9PF,50OHM,TP
2	2809-001260	OSC801	OSCILLATOR - VCTCXO	13MHZ,3PPM,10KOHM//10PF,TP,3V,-
2	0504-001113	Q100	TR - DIGITAL	DTC144EM,NPN,150MW,47K/47K,VMT3,TP
2	0502-001201	Q101	TR - POWER	ZXT13P20DE6,PNP,1100MW,SOT-23-6,TP,300-9
2	0504-000168	Q400	TR - DIGITAL	RN1104,NPN,100MW,47K/47K,SSM,TP
2	0504-000167	Q700	TR - DIGITAL	RN1102,NPN,100MW,10K/10K,SSM,TP
2	0504-000167	Q701	TR - DIGITAL	RN1102,NPN,100MW,10K/10K,SSM,TP
2	0504-000167	Q702	TR - DIGITAL	RN1102,NPN,100MW,10K/10K,SSM,TP
2	2007-001319	R100	R - CHIP	1.2Kohm,5%,1/16W,DA,TP,1005
2	2007-007771	R101	R - CHIP	0OHM,5%,1/16W,DA,TP,1005
2	2007-002965	R1010	R - CHIP	15OHM,5%,1/16W,DA,TP,1005
2	2007-000139	R1011	R - CHIP	220ohm,5%,1/16W,DA,TP,1005
2	2007-001311	R1012	R - CHIP	270ohm,5%,1/16W,DA,TP,1005

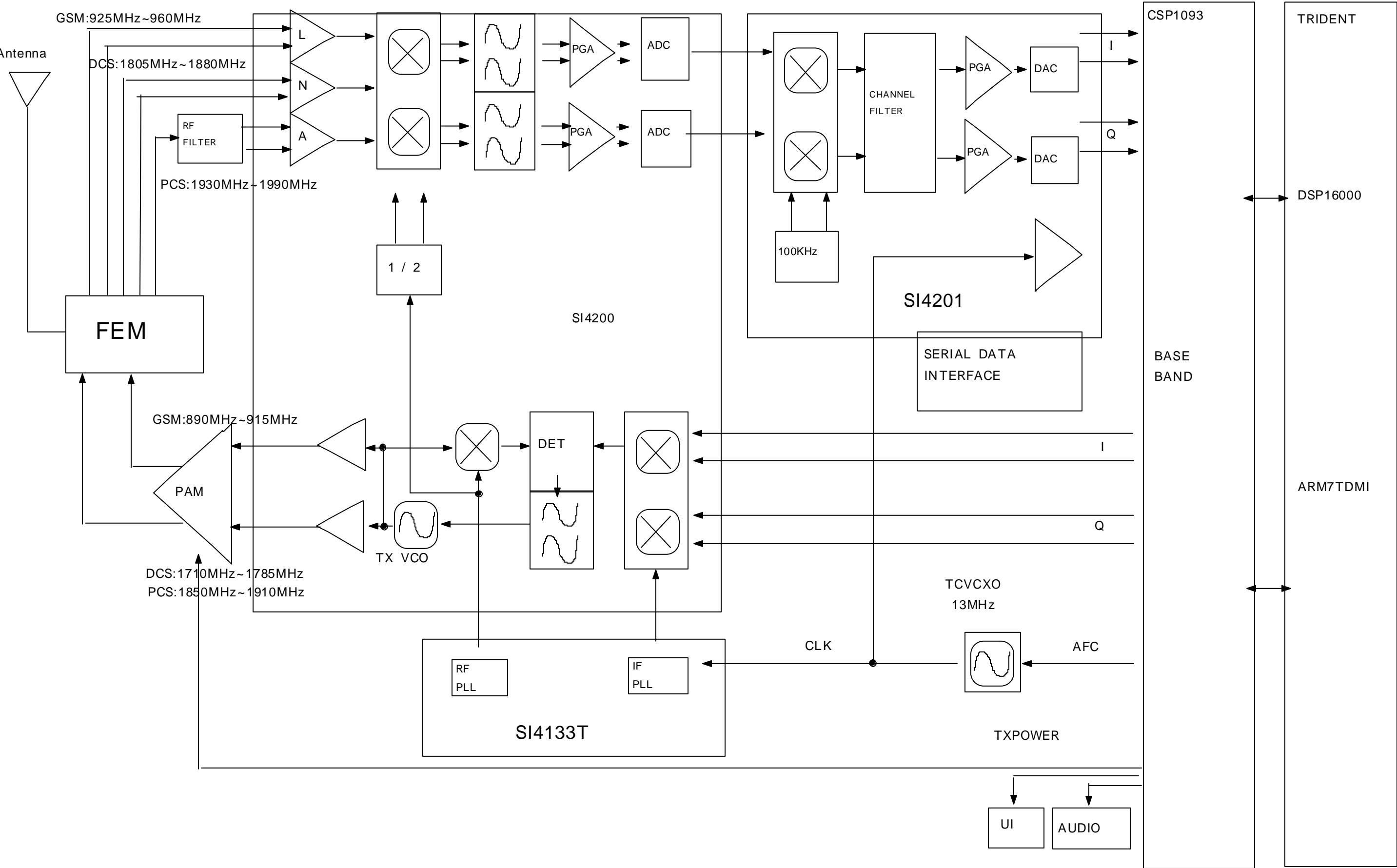
Level	SEC Code	Design LOC	Descriptions	
2	2007-000172	R1014	R-CHIP	10ohm,5%,1/16W,DA,TP,1005
2	2007-001316	R1015	R-CHIP	820ohm,5%,1/16W,DA,TP,1005
2	2007-001316	R1016	R-CHIP	820ohm,5%,1/16W,DA,TP,1005
2	2007-000167	R102	R-CHIP	390Kohm,5%,1/16W,DA,TP,1005
2	2007-007200	R103	R-CHIP	2.4OHM,5%,1/16W,DA,TP,1005
2	2007-000162	R1038	R-CHIP	100Kohm,5%,1/16W,DA,TP,1005
2	2007-007771	R106	R-CHIP	0OHM,5%,1/16W,DA,TP,1005
2	2007-000758	R110	R-CHIP	330Kohm,5%,1/16W,DA,TP,1005
2	2007-007771	R111	R-CHIP	0OHM,5%,1/16W,DA,TP,1005
2	2007-007139	R112	R-CHIP	47Kohm,1%,1/16W,DA,TP,1005
2	2007-001323	R113	R-CHIP	3Kohm,5%,1/16W,DA,TP,1005
2	2007-007771	R200	R-CHIP	0OHM,5%,1/16W,DA,TP,1005
2	2007-003001	R201	R-CHIP	12OHM,5%,1/16W,DA,TP,1005
2	2007-007771	R202	R-CHIP	0OHM,5%,1/16W,DA,TP,1005
2	2007-001307	R203	R-CHIP	180ohm,5%,1/16W,DA,TP,1005
2	2007-001307	R204	R-CHIP	180ohm,5%,1/16W,DA,TP,1005
2	2007-001307	R205	R-CHIP	180ohm,5%,1/16W,DA,TP,1005
2	2007-001307	R206	R-CHIP	180ohm,5%,1/16W,DA,TP,1005
2	2007-001307	R207	R-CHIP	180ohm,5%,1/16W,DA,TP,1005
2	2007-001307	R208	R-CHIP	180ohm,5%,1/16W,DA,TP,1005
2	2007-001307	R210	R-CHIP	180ohm,5%,1/16W,DA,TP,1005
2	2007-001307	R211	R-CHIP	180ohm,5%,1/16W,DA,TP,1005
2	2007-001307	R213	R-CHIP	180ohm,5%,1/16W,DA,TP,1005
2	2007-001307	R214	R-CHIP	180ohm,5%,1/16W,DA,TP,1005
2	2007-001307	R216	R-CHIP	180ohm,5%,1/16W,DA,TP,1005
2	2007-001307	R217	R-CHIP	180ohm,5%,1/16W,DA,TP,1005
2	2007-001301	R221	R-CHIP	68ohm,5%,1/16W,DA,TP,1005
2	2007-000174	R222	R-CHIP	47ohm,5%,1/16W,DA,TP,1005
2	2007-000174	R223	R-CHIP	47ohm,5%,1/16W,DA,TP,1005
2	2007-000174	R224	R-CHIP	47ohm,5%,1/16W,DA,TP,1005
2	2007-000174	R225	R-CHIP	47ohm,5%,1/16W,DA,TP,1005
2	2007-000174	R226	R-CHIP	47ohm,5%,1/16W,DA,TP,1005
2	2007-000174	R227	R-CHIP	47ohm,5%,1/16W,DA,TP,1005
2	2007-000174	R228	R-CHIP	47ohm,5%,1/16W,DA,TP,1005
2	2007-000174	R229	R-CHIP	47ohm,5%,1/16W,DA,TP,1005
2	2007-000174	R230	R-CHIP	47ohm,5%,1/16W,DA,TP,1005
2	2007-000174	R231	R-CHIP	47ohm,5%,1/16W,DA,TP,1005
2	2007-000140	R303	R-CHIP	1Kohm,5%,1/16W,DA,TP,1005
2	2007-000157	R305	R-CHIP	47Kohm,5%,1/16W,DA,TP,1005
2	2007-000157	R306	R-CHIP	47Kohm,5%,1/16W,DA,TP,1005
2	2007-000140	R307	R-CHIP	1Kohm,5%,1/16W,DA,TP,1005
2	2007-000140	R308	R-CHIP	1Kohm,5%,1/16W,DA,TP,1005
2	2007-000140	R309	R-CHIP	1Kohm,5%,1/16W,DA,TP,1005
2	2007-000140	R310	R-CHIP	1Kohm,5%,1/16W,DA,TP,1005
2	2007-007771	R399	R-CHIP	0OHM,5%,1/16W,DA,TP,1005
2	2007-007771	R402	R-CHIP	0OHM,5%,1/16W,DA,TP,1005
2	2007-000164	R403	R-CHIP	150Kohm,5%,1/16W,DA,TP,1005
2	2007-000775	R404	R-CHIP	33Kohm,5%,1/16W,DA,TP,1005
2	2007-000147	R405	R-CHIP	8.2Kohm,5%,1/16W,DA,TP,1005

Level	SEC Code	Design LOC	Descriptions	
2	2007-000159	R406	R-CHIP	56Kohm,5%,1/16W,DA,TP,1005
2	2007-000775	R407	R-CHIP	33Kohm,5%,1/16W,DA,TP,1005
2	2007-000143	R409	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1005
2	2007-001119	R410	R-CHIP	680ohm,5%,1/16W,DA,TP,1005
2	2007-001325	R413	R-CHIP	3.3Kohm,5%,1/16W,DA,TP,1005
2	2007-000143	R414	R-CHIP	4.7Kohm,5%,1/16W,DA,TP,1005
2	2007-000147	R420	R-CHIP	8.2Kohm,5%,1/16W,DA,TP,1005
2	2007-000159	R421	R-CHIP	56Kohm,5%,1/16W,DA,TP,1005
2	2007-001244	R422	R-CHIP	91Kohm,5%,1/16W,DA,TP,1005
2	2007-000165	R423	R-CHIP	200Kohm,5%,1/16W,DA,TP,1005
2	2007-000758	R424	R-CHIP	330Kohm,5%,1/16W,DA,TP,1005
2	2007-007771	R426	R-CHIP	00HM,5%,1/16W,DA,TP,1005
2	2007-000140	R427	R-CHIP	1Kohm,5%,1/16W,DA,TP,1005
2	2007-001119	R428	R-CHIP	680ohm,5%,1/16W,DA,TP,1005
2	2007-007771	R499	R-CHIP	00HM,5%,1/16W,DA,TP,1005
2	2007-000162	R506	R-CHIP	100Kohm,5%,1/16W,DA,TP,1005
2	2007-007771	R507	R-CHIP	00HM,5%,1/16W,DA,TP,1005
2	2007-007771	R508	R-CHIP	00HM,5%,1/16W,DA,TP,1005
2	2007-007771	R606	R-CHIP	00HM,5%,1/16W,DA,TP,1005
2	2007-000157	R608	R-CHIP	47Kohm,5%,1/16W,DA,TP,1005
2	2007-000157	R609	R-CHIP	47Kohm,5%,1/16W,DA,TP,1005
2	2007-000170	R610	R-CHIP	1Mohm,5%,1/16W,DA,TP,1005
2	2007-007142	R611	R-CHIP	10Kohm,1%,1/16W,DA,TP,1005
2	2007-007573	R612	R-CHIP	330Kohm,1%,1/16W,DA,TP,1005
2	2007-007573	R613	R-CHIP	330Kohm,1%,1/16W,DA,TP,1005
2	2007-000162	R615	R-CHIP	100Kohm,5%,1/16W,DA,TP,1005
2	2007-001311	R700	R-CHIP	270ohm,5%,1/16W,DA,TP,1005
2	2007-001307	R701	R-CHIP	180ohm,5%,1/16W,DA,TP,1005
2	2007-007200	R709	R-CHIP	2.4OHM,5%,1/16W,DA,TP,1005
2	2007-007200	R710	R-CHIP	2.4OHM,5%,1/16W,DA,TP,1005
2	2007-000138	R711	R-CHIP	100ohm,5%,1/16W,DA,TP,1005
2	2007-000162	R713	R-CHIP	100Kohm,5%,1/16W,DA,TP,1005
2	2007-000162	R714	R-CHIP	100Kohm,5%,1/16W,DA,TP,1005
2	2007-000162	R715	R-CHIP	100Kohm,5%,1/16W,DA,TP,1005
2	2007-000242	R801	R-CHIP	1.5Kohm,5%,1/16W,DA,TP,1005
2	2007-002797	R802	R-CHIP	560ohm,5%,1/16W,DA,TP,1005
2	2007-000172	R803	R-CHIP	10ohm,5%,1/16W,DA,TP,1005
2	2007-000138	R805	R-CHIP	100ohm,5%,1/16W,DA,TP,1005
2	2007-000758	R810	R-CHIP	330Kohm,5%,1/16W,DA,TP,1005
2	2007-007771	R999	R-CHIP	00HM,5%,1/16W,DA,TP,1005
2	1203-002568	U100	IC- VOLTAGE REGULATOR	PSC2006,MLCC,68P,10X10MM,PLASTIC,1.8/2.5V
2	1201-001889	U1001	IC- POWER AMP	3110,SMD-MODULE,40P,10X10MM,DUAL,35DB,-,
2	1203-001720	U101	IC- VOLTAGE REGULATOR	5219,SOT-23,5P,63MIL,PLASTIC,2.91/3.09V,-,-
2	1203-002127	U102	IC- BATTERY	1734,SOT-23,6P,150MIL,PLASTIC,4.7/5.3V,-,0to+
2	0506-001052	U103	TR- ARRAY	UMH9N,NPN,2,150MW,SC-88,TP,68-
2	3404-001152	U200	SWITCH- TACT	12V DC,20mA,160gf,4.5x4.0x2.3mm,SPST
2	3404-001152	U201	SWITCH- TACT	12V DC,20mA,160gf,4.5x4.0x2.3mm,SPST

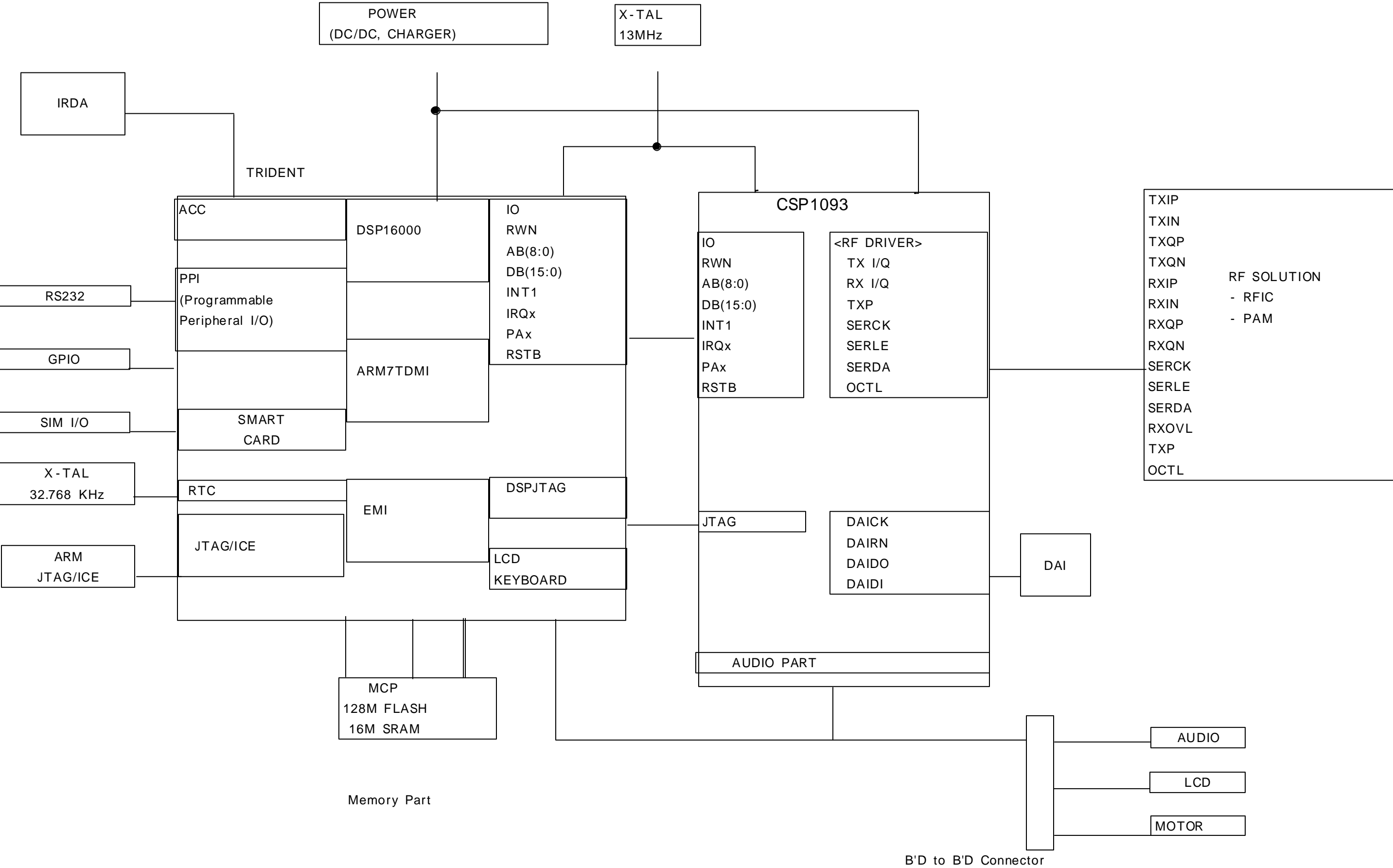
Level	SEC Code	Design LOC	Descriptions	
2	1204-001960	U401	IC-MELODY	YMU762 MA-3,QFN,32P,6.2X5.2MM,PLASTIC,4.5
2	1001-001155	U402	IC-ANALOG MULTIPLEX	NC7SB3157P6X,CMOS,SC70,6P,49MIL,-,5.5V,-40 to +85C,PLASTIC,180mW,300ohm,-,-,1uA,TP
2	1109-001242	U501	IC-ETC. MEMORY	LRS1395,4MX16/4MX16/1MX16BIT,CSP,72P,11X8MM,70NS,3V,10%,PLASTIC,-20TO+85C,50UA,C
2	GH09-00020A	U601	IC MICOM-SGHS100	TR09WQTEB17IN2B-DT,SGH-S100,-,-,-,144KX16BIT,-,-,FSBGAC,TR,-,-,-40TO+85
2	1209-001219	U602	IC-SENSOR	LM60C,SOT-23,3P,115MIL,PLASTIC
2	1009-001010	U603	IC-HALL EFFECT S/W	A3212ELH-SAMSUNG,SC-59A,3P,82MIL,TP,BICMOS,PLASTIC,3.5V,2MA,-40TO+85C,-,-,-,340K
2	1204-001984	U700	IC-SIGNAL PROCESSOR	CSP1093CR1-RT10-DB,FSBGA,108P,8X8MM,PLASTIC,3.3V,1W,-40TO+85C,TP,GSM2+ CONVERSIO
2	0504-001042	U701	TR-DIGITAL	BCR10PN,NPN/PNP,250mW,10K/10K,
2	0504-001042	U702	TR-DIGITAL	BCR10PN,NPN/PNP,250mW,10K/10K,
2	0504-001042	U703	TR-DIGITAL	BCR10PN,NPN/PNP,250mW,10K/10K,
2	0801-002345	U800	IC-CMOS LOGIC	7S04,INVERTER,SOT-353,5P,49MIL,SINGLE,TP,PLASTIC,-,-,0.26V,-40TO+85C,200MW,4.2V,
2	1205-002185	U900	IC-INTERFACE	SI4201-BM,MLP,20P,4X4MM,-,3V,-,-20TO+85C,TP,UNIVERSAL BASEBAND
2	1205-002268	U901	IC-TRANSCEIVER	SI4200F,MLP,32P,5X5MM,-,3V,-,-20TO+85C,TP,TRI-BAND TRANSCEIVER
2	1209-001434	U902	IC-PLL/SYNTHESIZER	SI4133T-BM,MLP,28P,5X5MM,-,3V,-,-20TO+85C,
2	1405-001108	ZD201	VARISTOR	14V,20A,1X0.5X0.6MM,TP
2	1405-001108	ZD202	VARISTOR	14V,20A,1X0.5X0.6MM,TP
2	1405-001108	ZD203	VARISTOR	14V,20A,1X0.5X0.6MM,TP
2	1405-001108	ZD204	VARISTOR	14V,20A,1X0.5X0.6MM,TP
2	1405-001108	ZD205	VARISTOR	14V,20A,1X0.5X0.6MM,TP
2	1405-001108	ZD206	VARISTOR	14V,20A,1X0.5X0.6MM,TP
2	1405-001108	ZD207	VARISTOR	14V,20A,1X0.5X0.6MM,TP
2	1405-001108	ZD208	VARISTOR	14V,20A,1X0.5X0.6MM,TP
2	1405-001108	ZD209	VARISTOR	14V,20A,1X0.5X0.6MM,TP
2	1405-001108	ZD210	VARISTOR	14V,20A,1X0.5X0.6MM,TP
2	1405-001108	ZD211	VARISTOR	14V,20A,1X0.5X0.6MM,TP
2	1405-001082	ZD300	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD302	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD303	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD309	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD310	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD311	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD312	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD313	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD314	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD315	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD316	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD317	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD318	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001018	ZD319	VARISTOR	14V,-,1.6x0.8mm,TP
2	1405-001082	ZD401	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD404	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	1405-001082	ZD405	VARISTOR	5.6V,20A,1x0.5x0.6mm,TP
2	GH41-00338A		PCB-SGHS300 MAIN	SGH-S300,FR4,8L,0,1.0T,100X155MM,-,3ARRAY,

4. SGH-S300 Block Diagrams

1. RF Solution Block Diagram

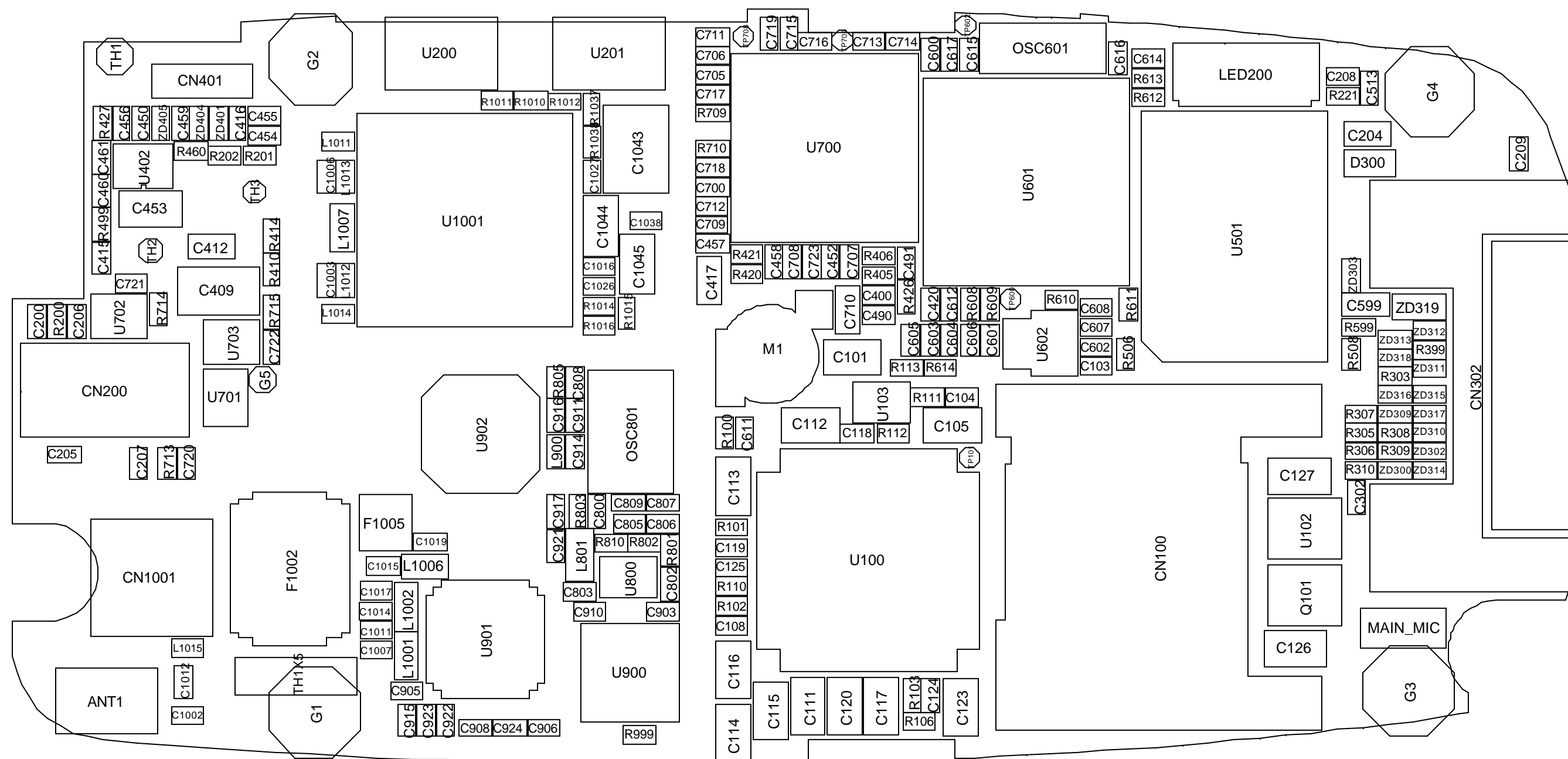


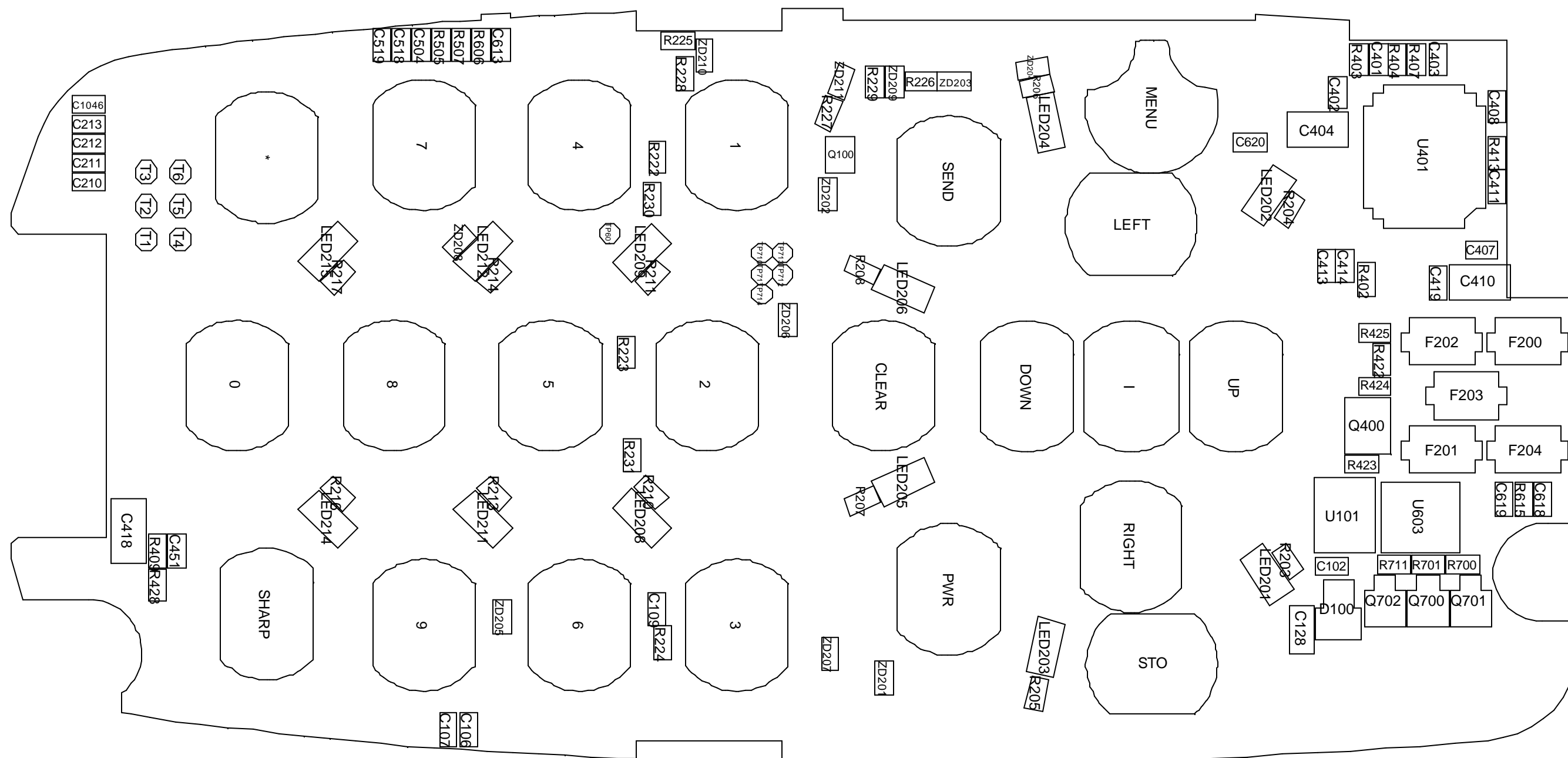
2. Base Band Solution Block Diagram



5. SGH-S300 PCB Diagrams

1. Main PCB Top Diagram

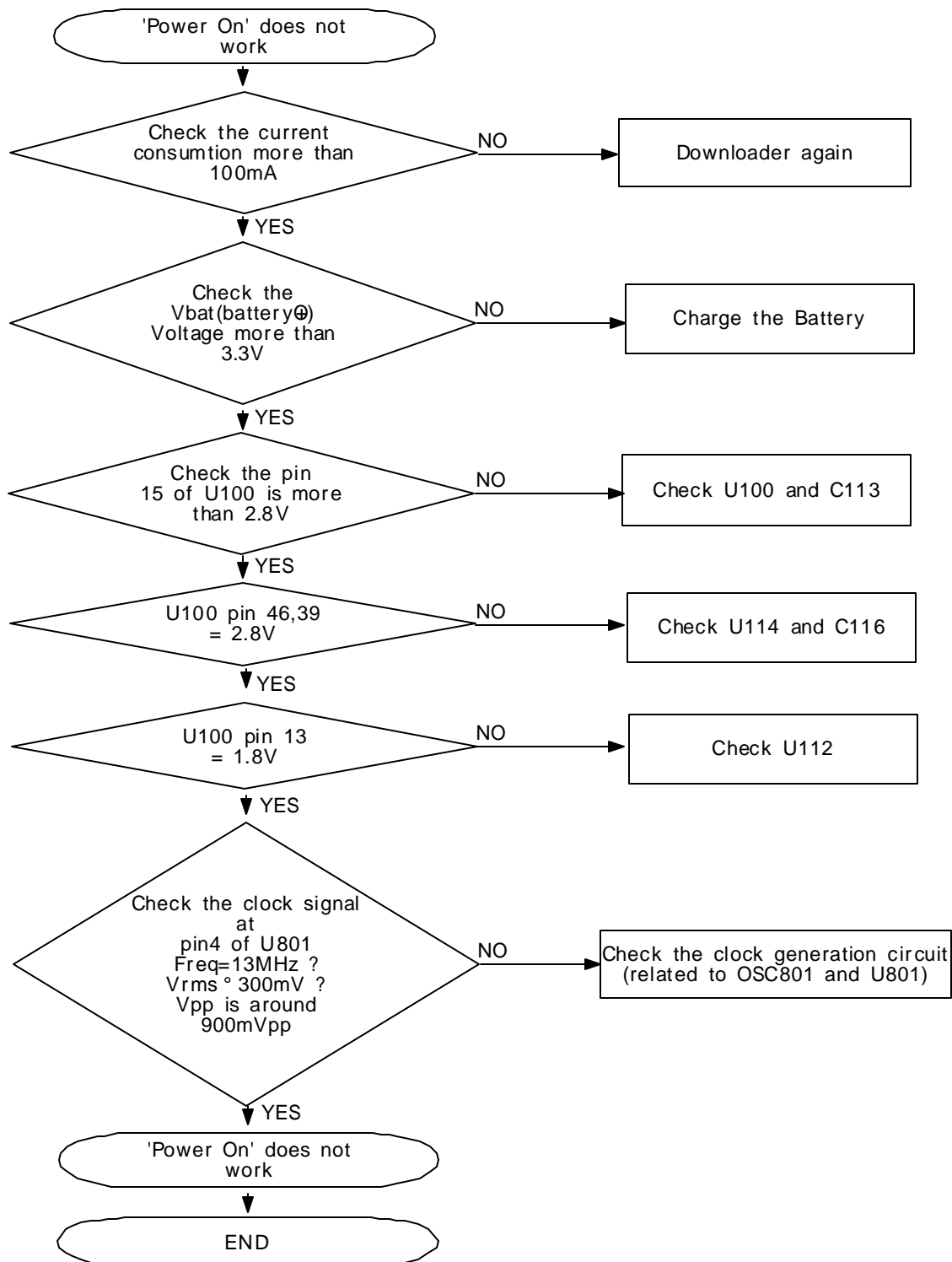




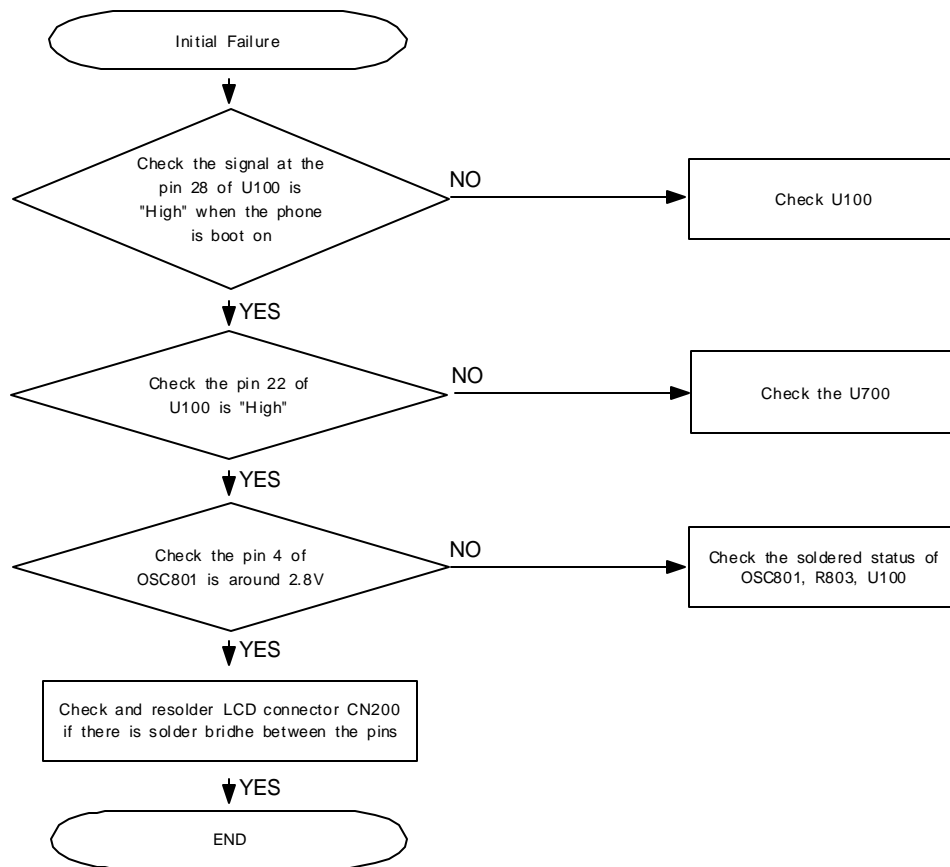
6. SGH-S300 Flow Chart of Troubleshooting and Circuit Diagrams

1. Baseband

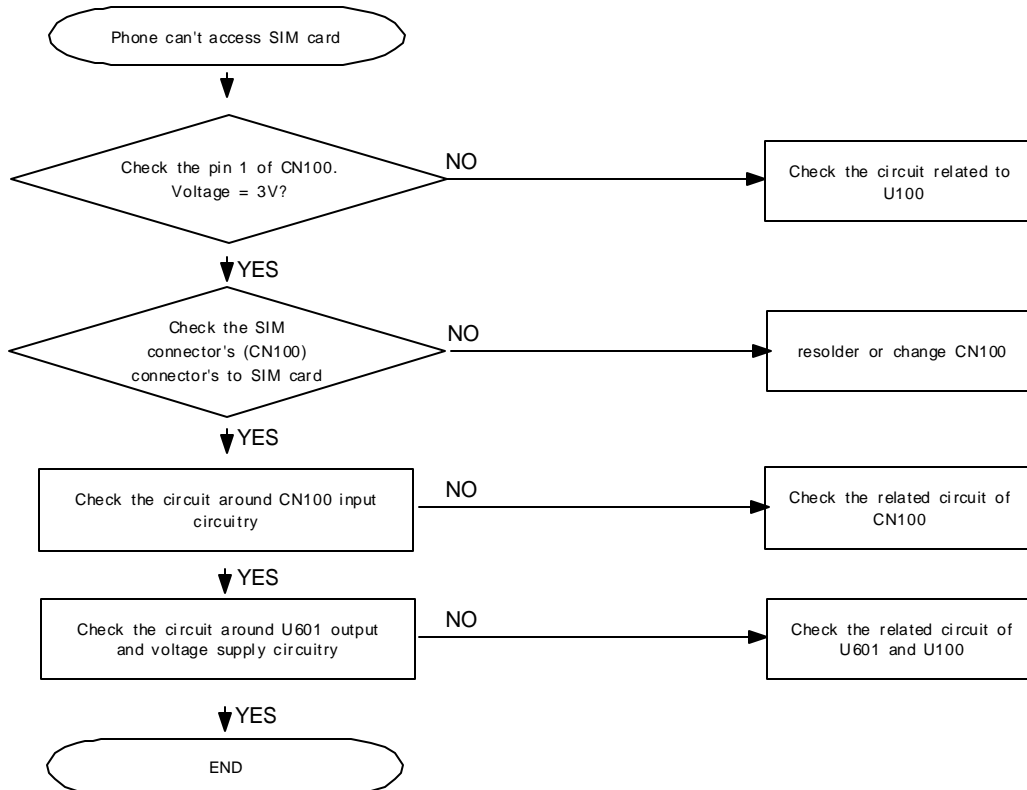
1. Power ON



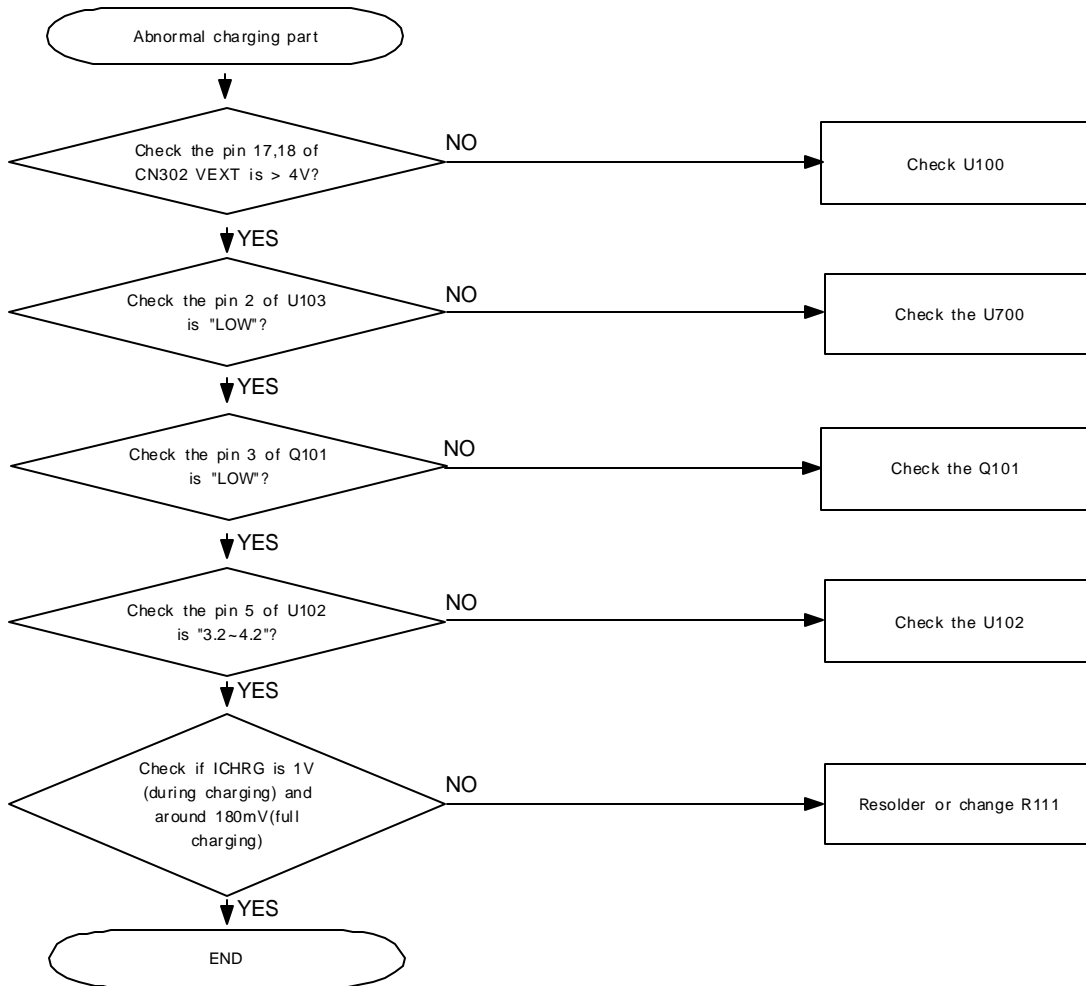
2. Initial



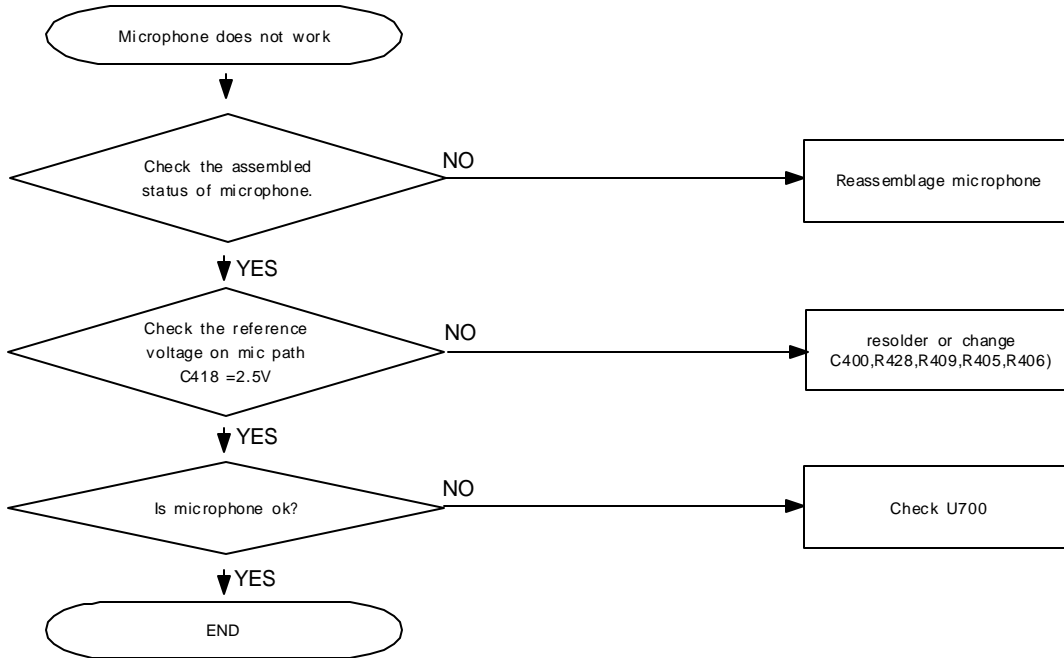
3. Sim Part



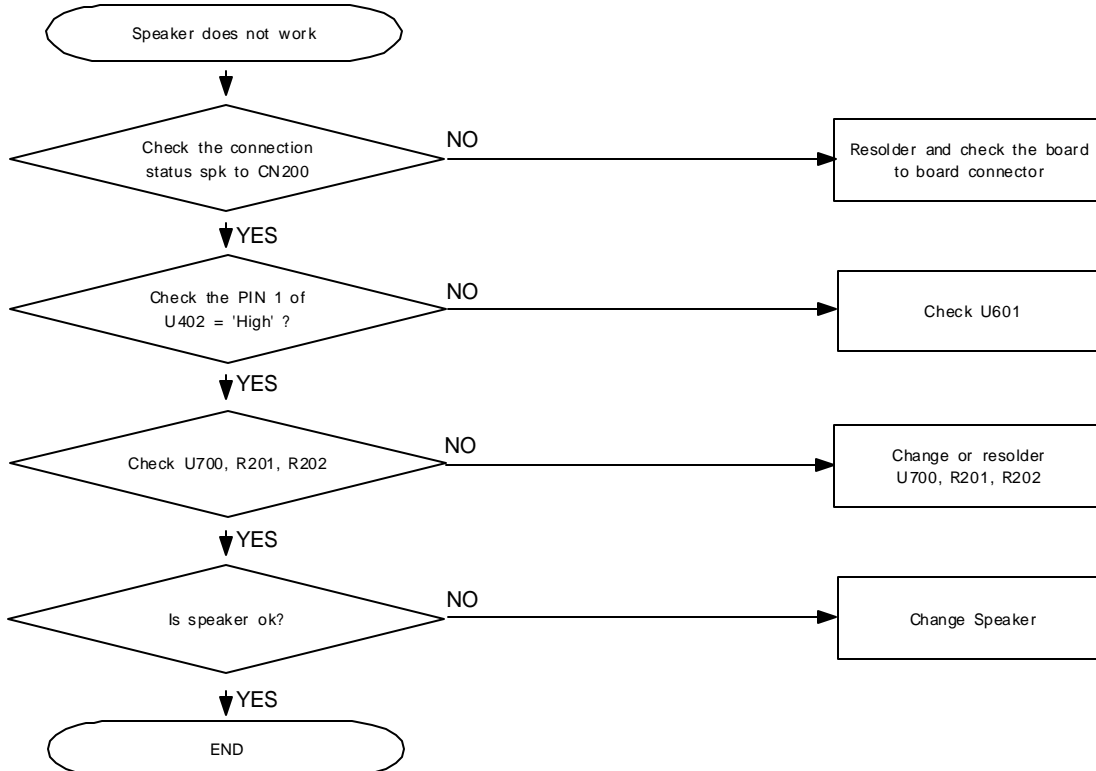
4. Charging Part



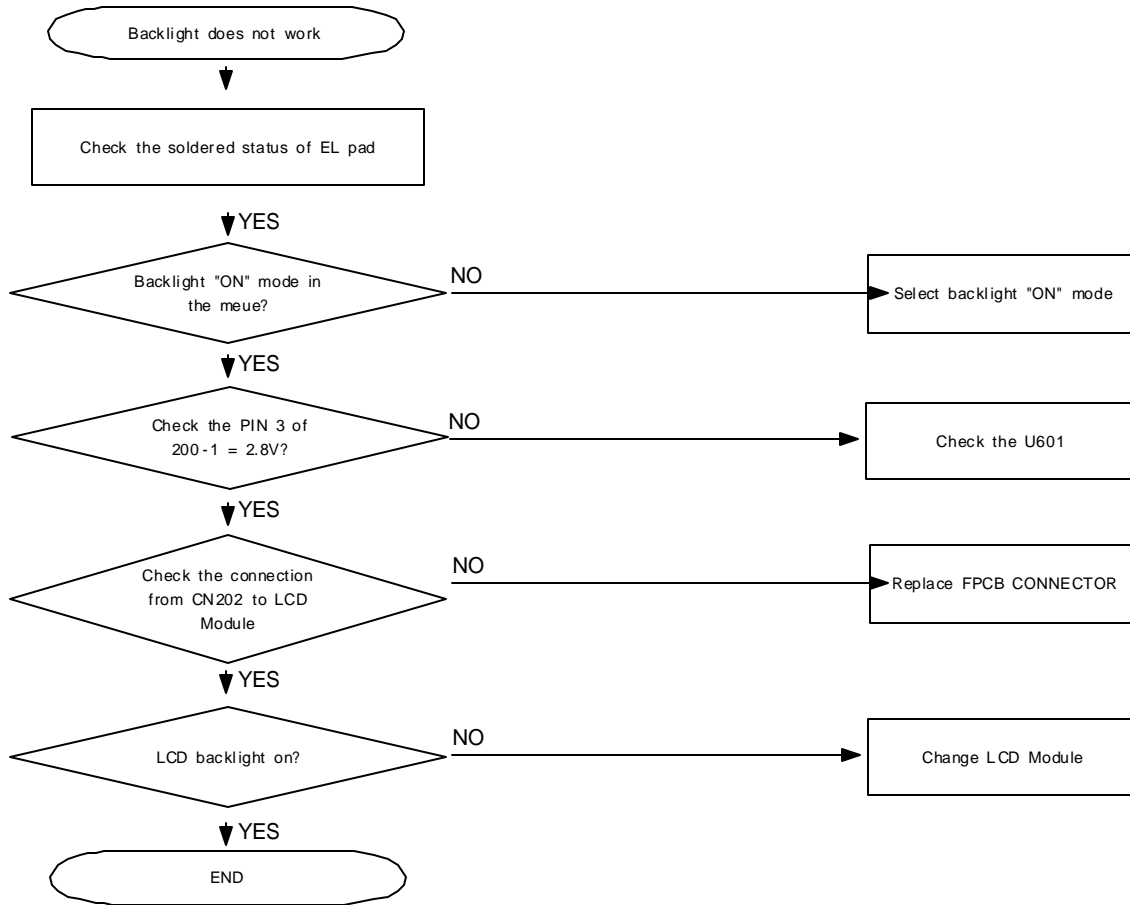
5. Microphone Part



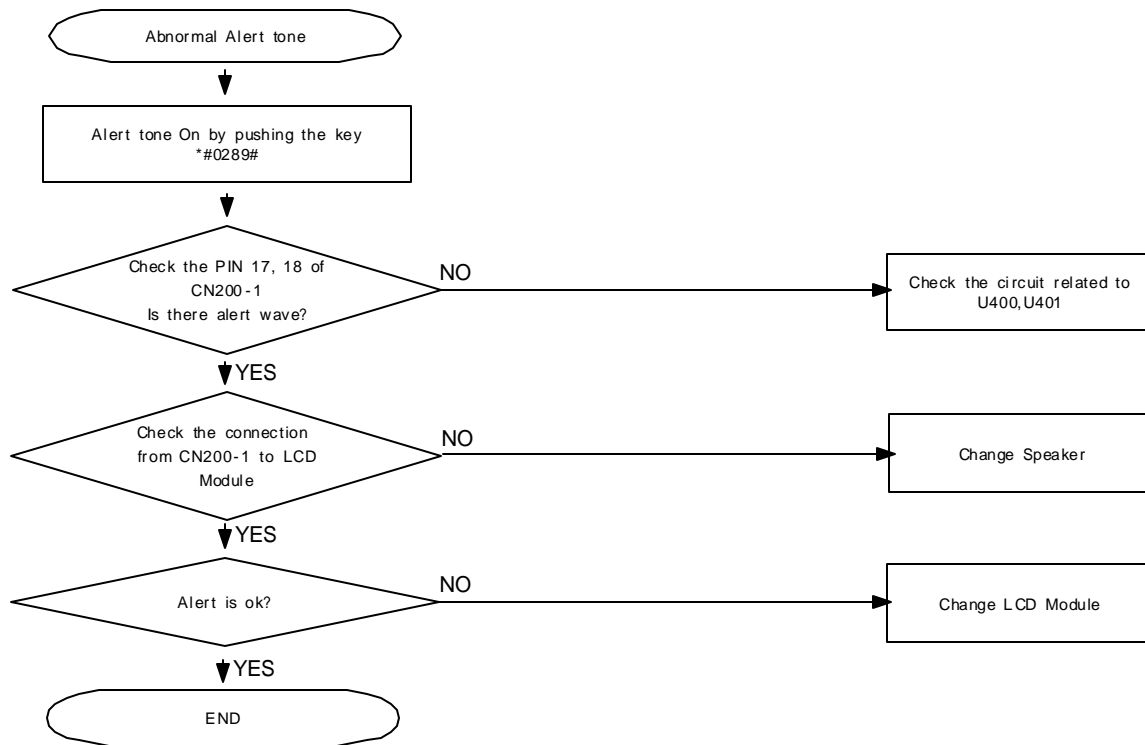
6. Speaker Part

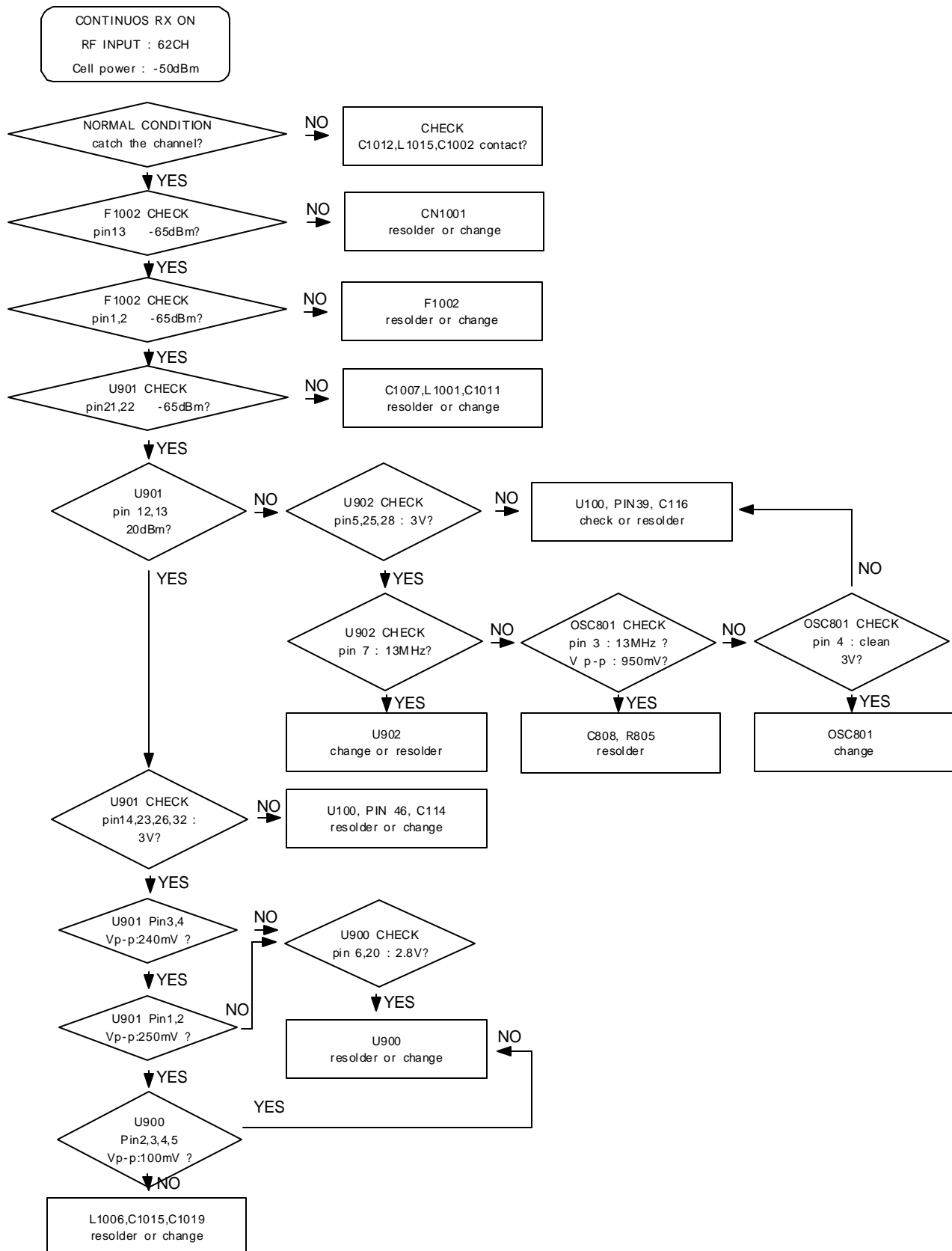


7. Back Light



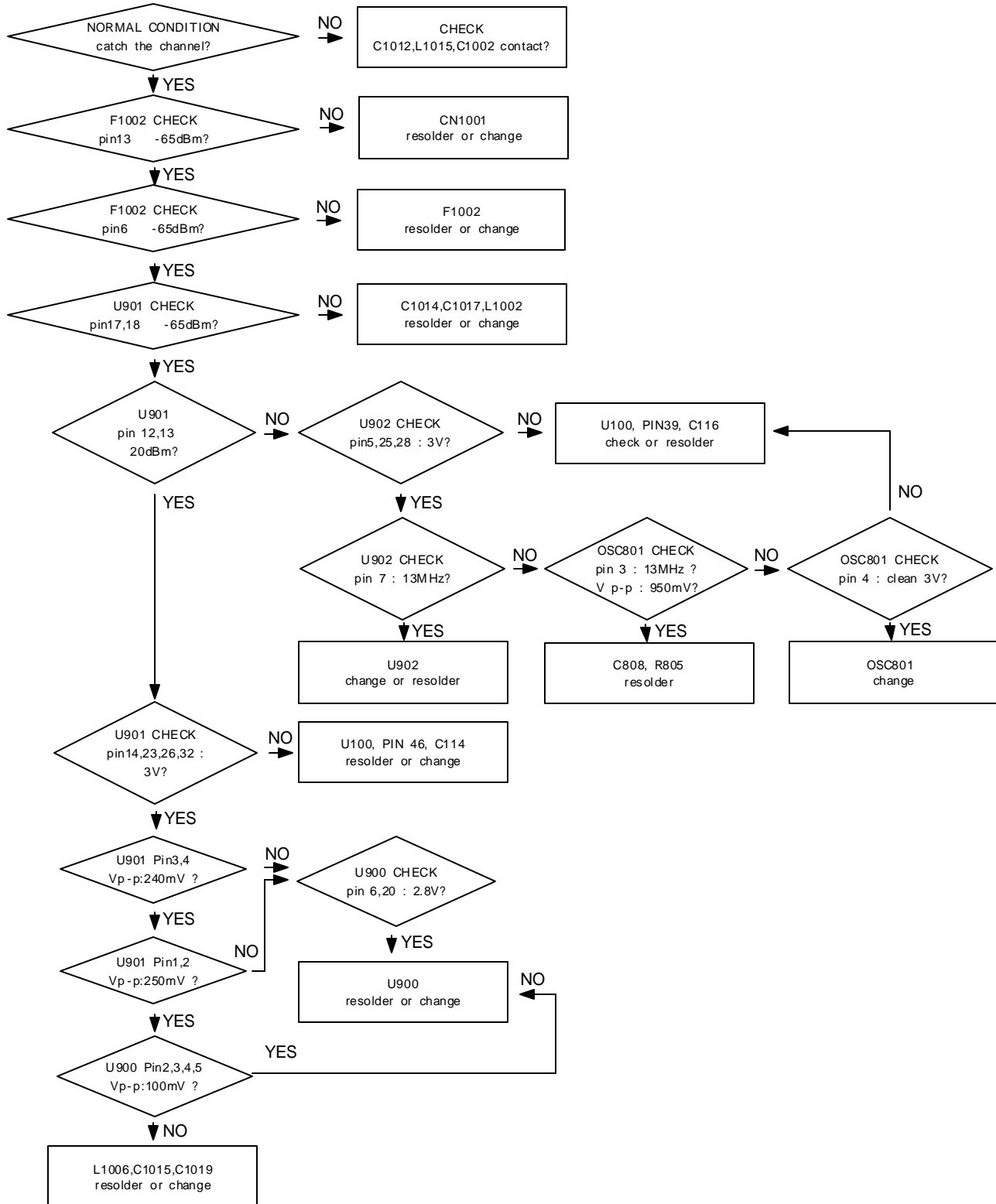
8.Alert Tone



2.RF**1. GSM Receiver**

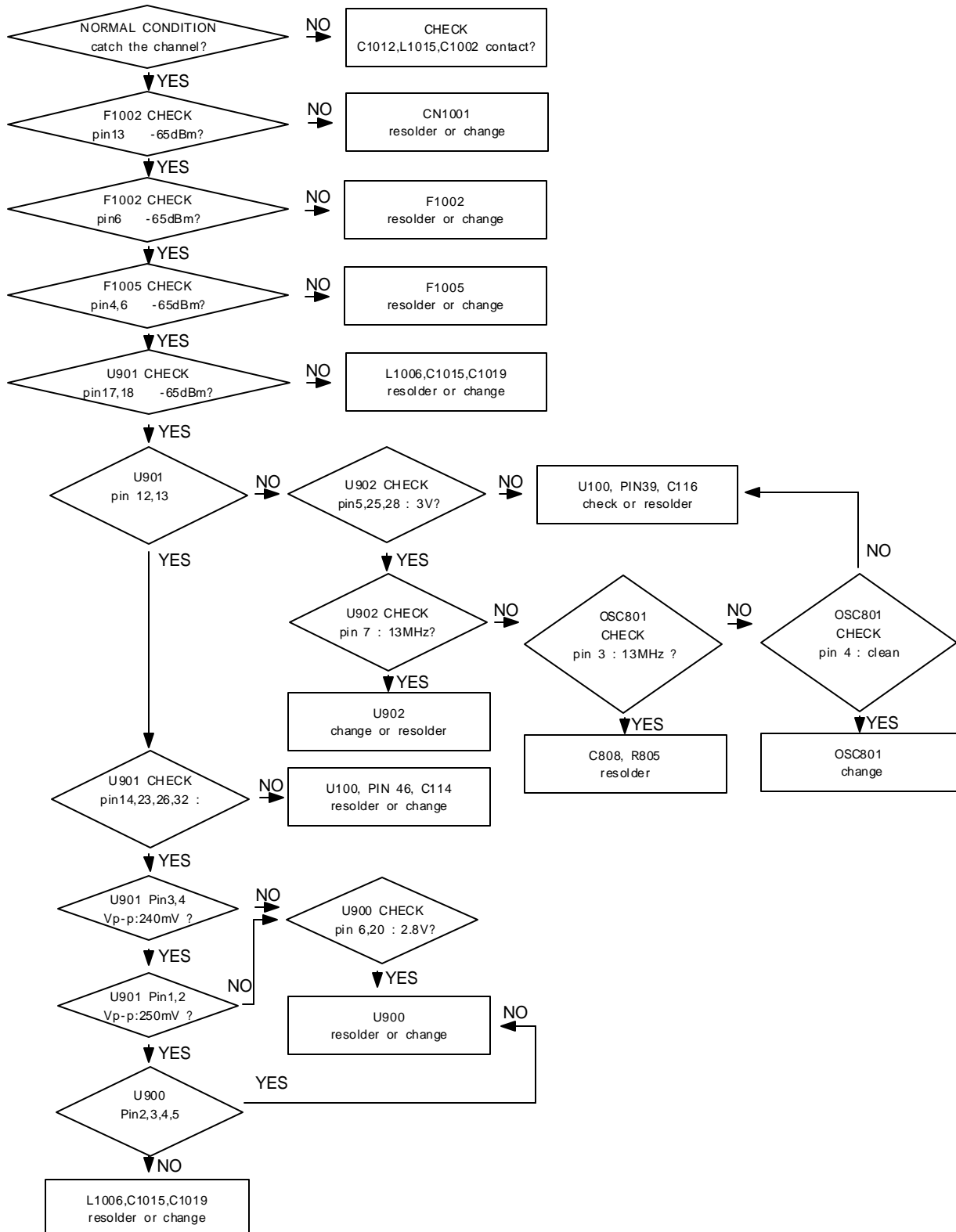
2. DCS Receiver

CONTINUOUS RX ON
RF INPUT : 698CH
Cell power : -50dBm

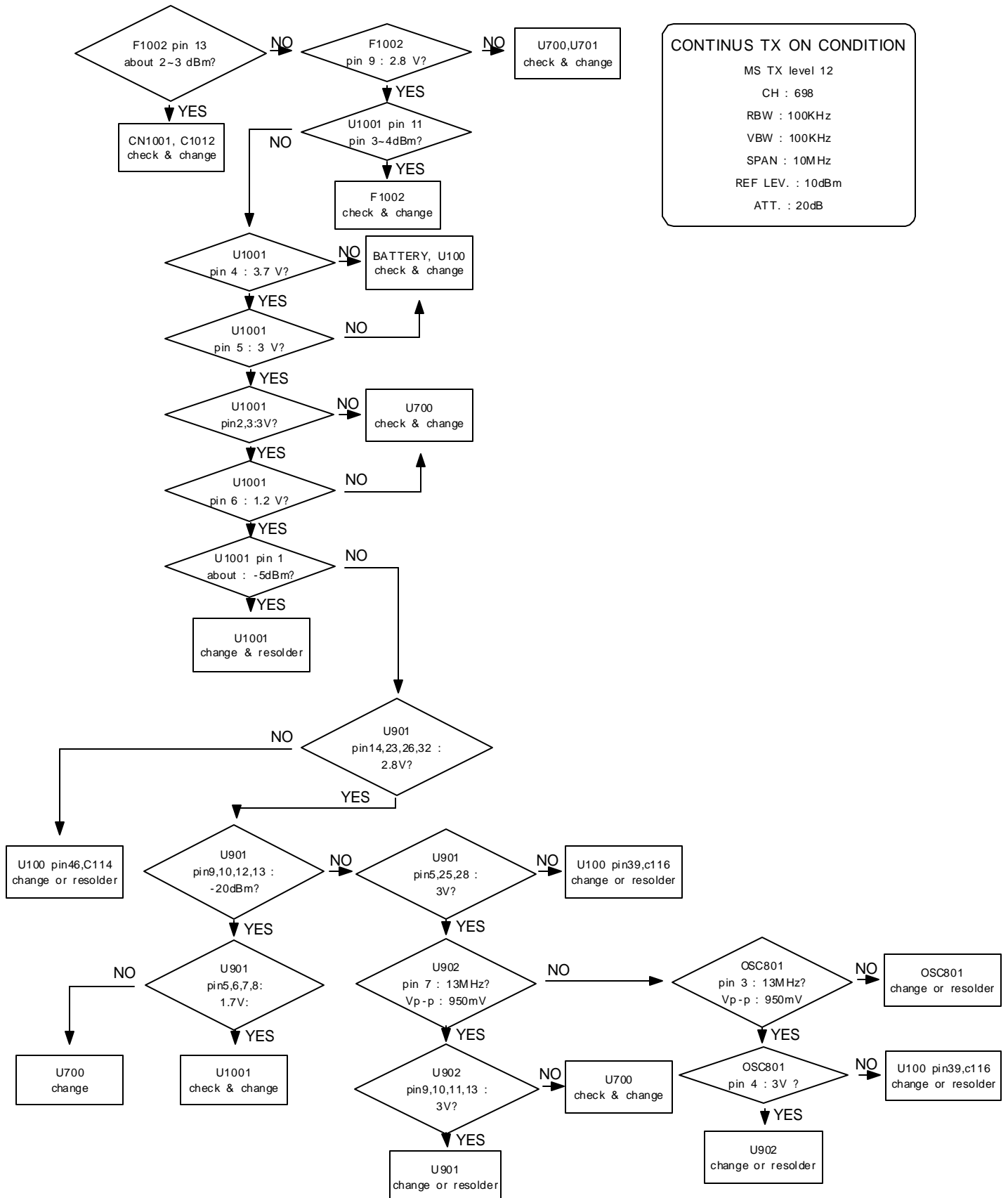


3. PCS Receiver

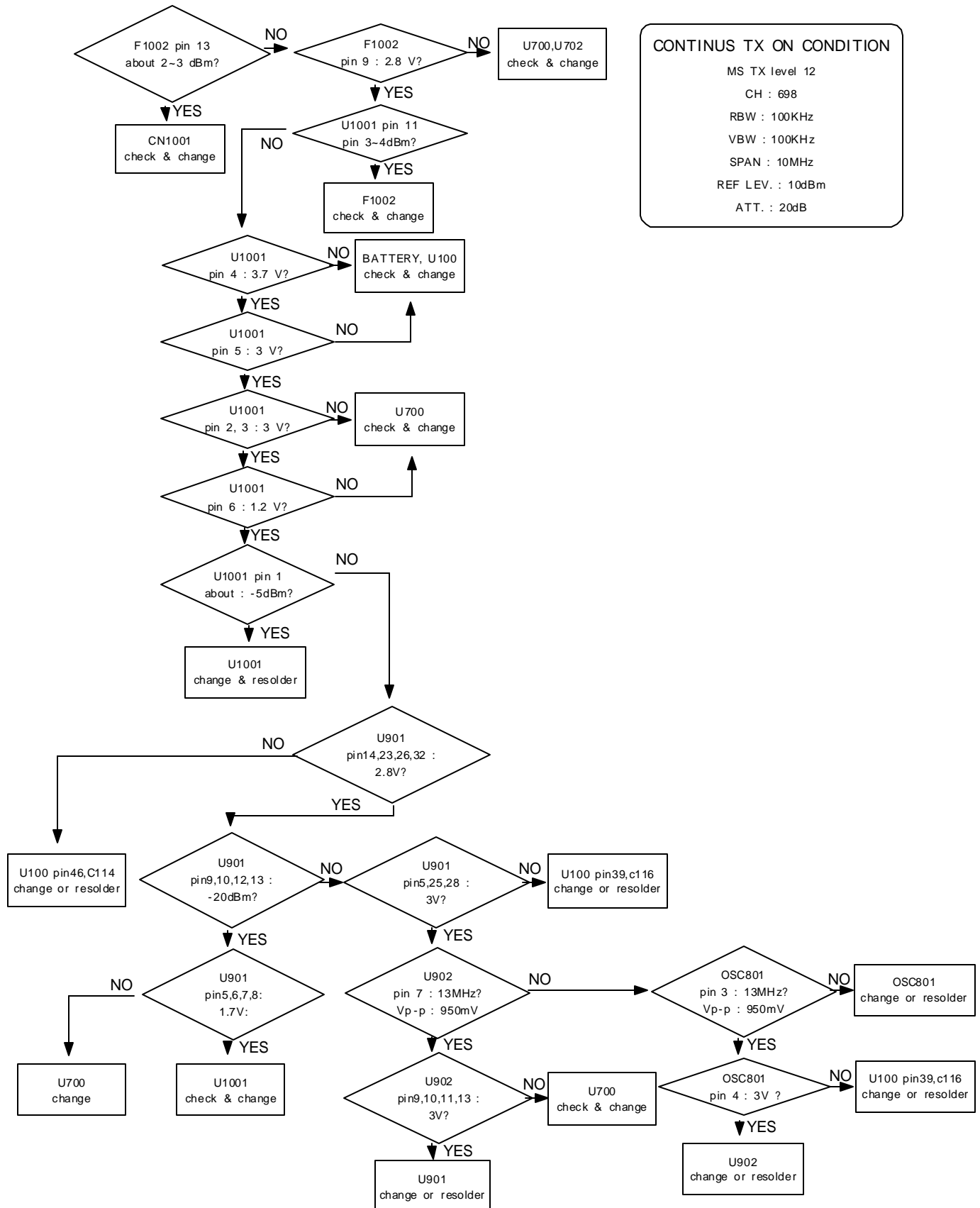
CONTINUOUS RX ON
RF INPUT : 698CH
Cell power : -50dBm

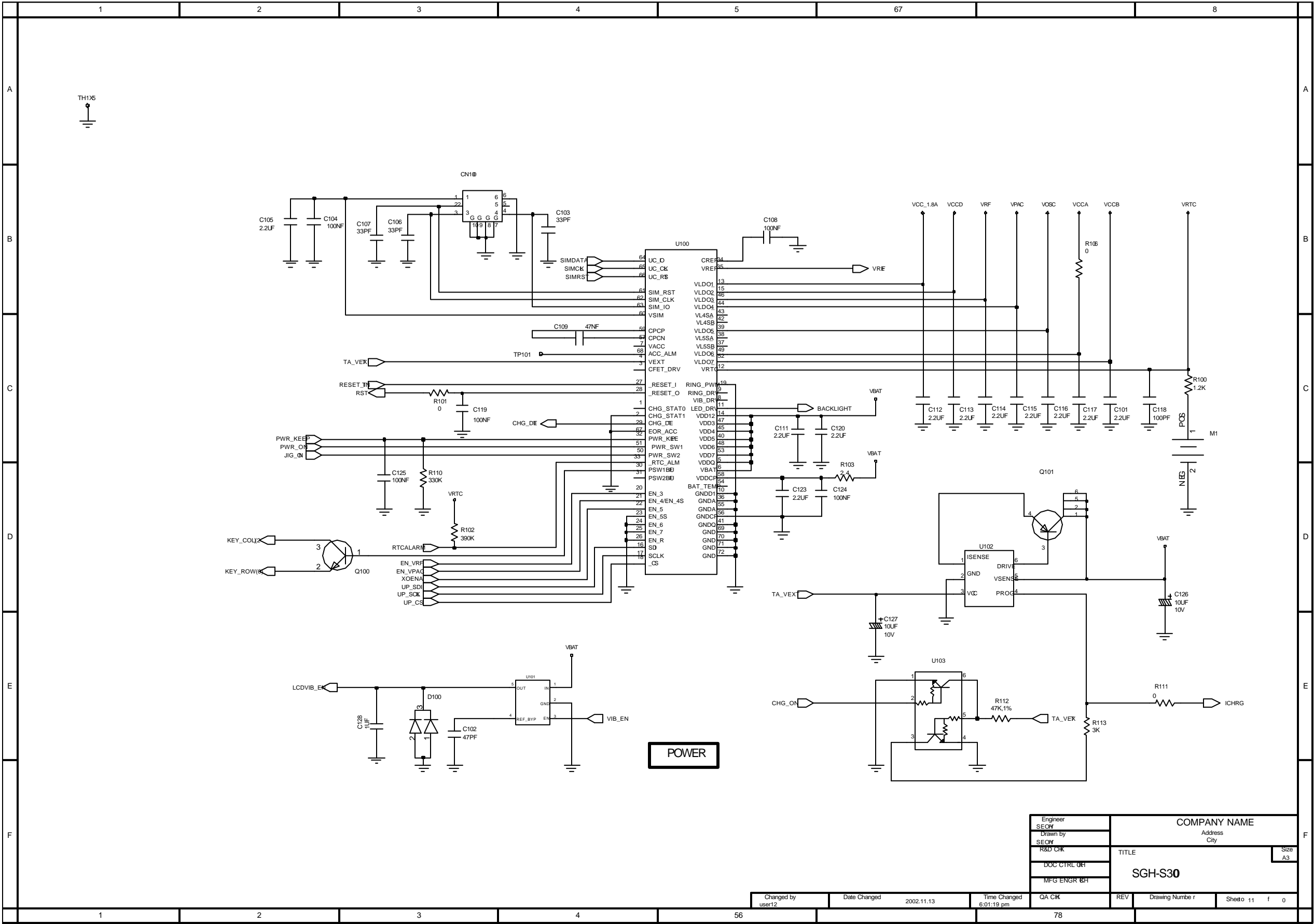


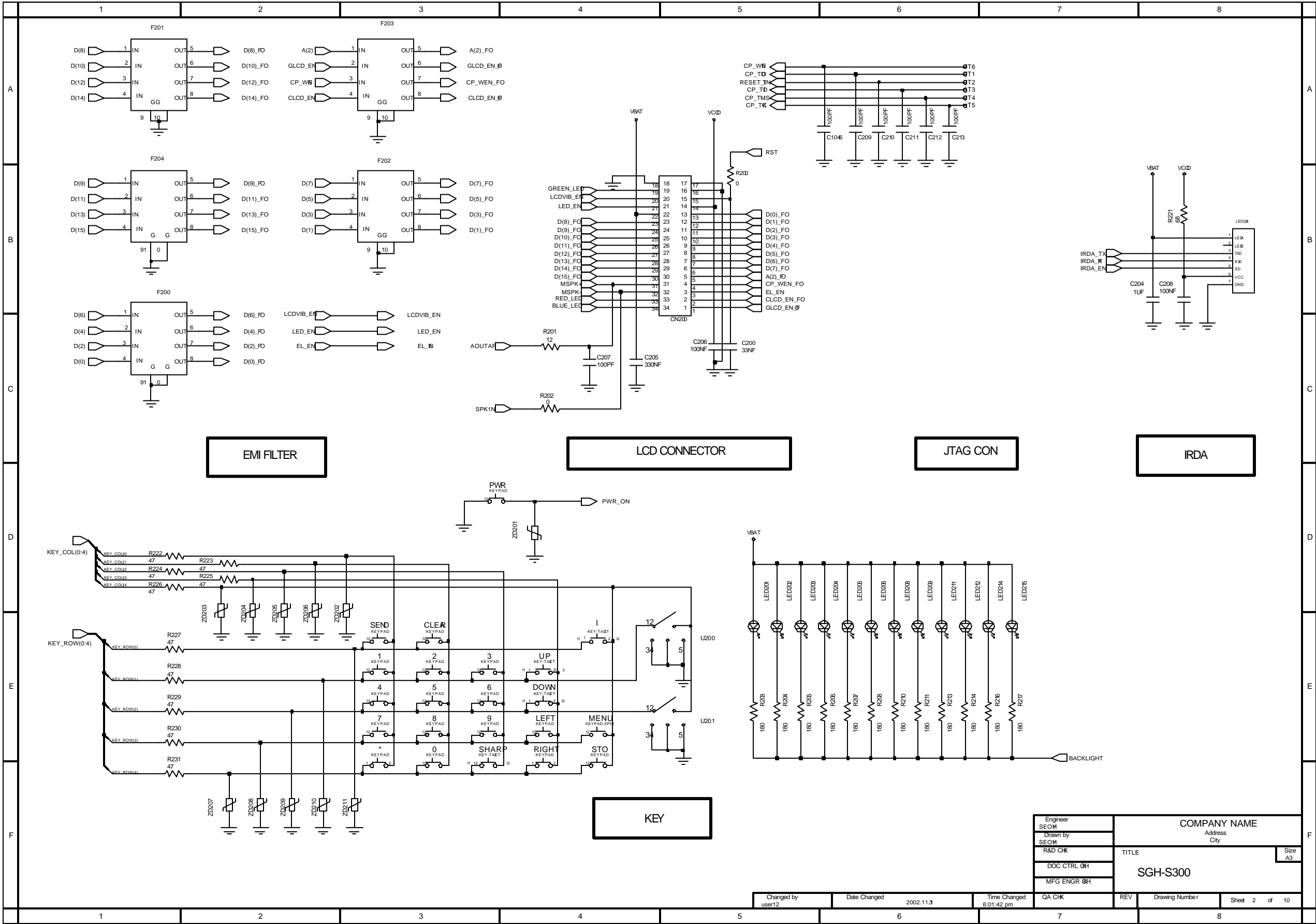
5. DCS Transmitter

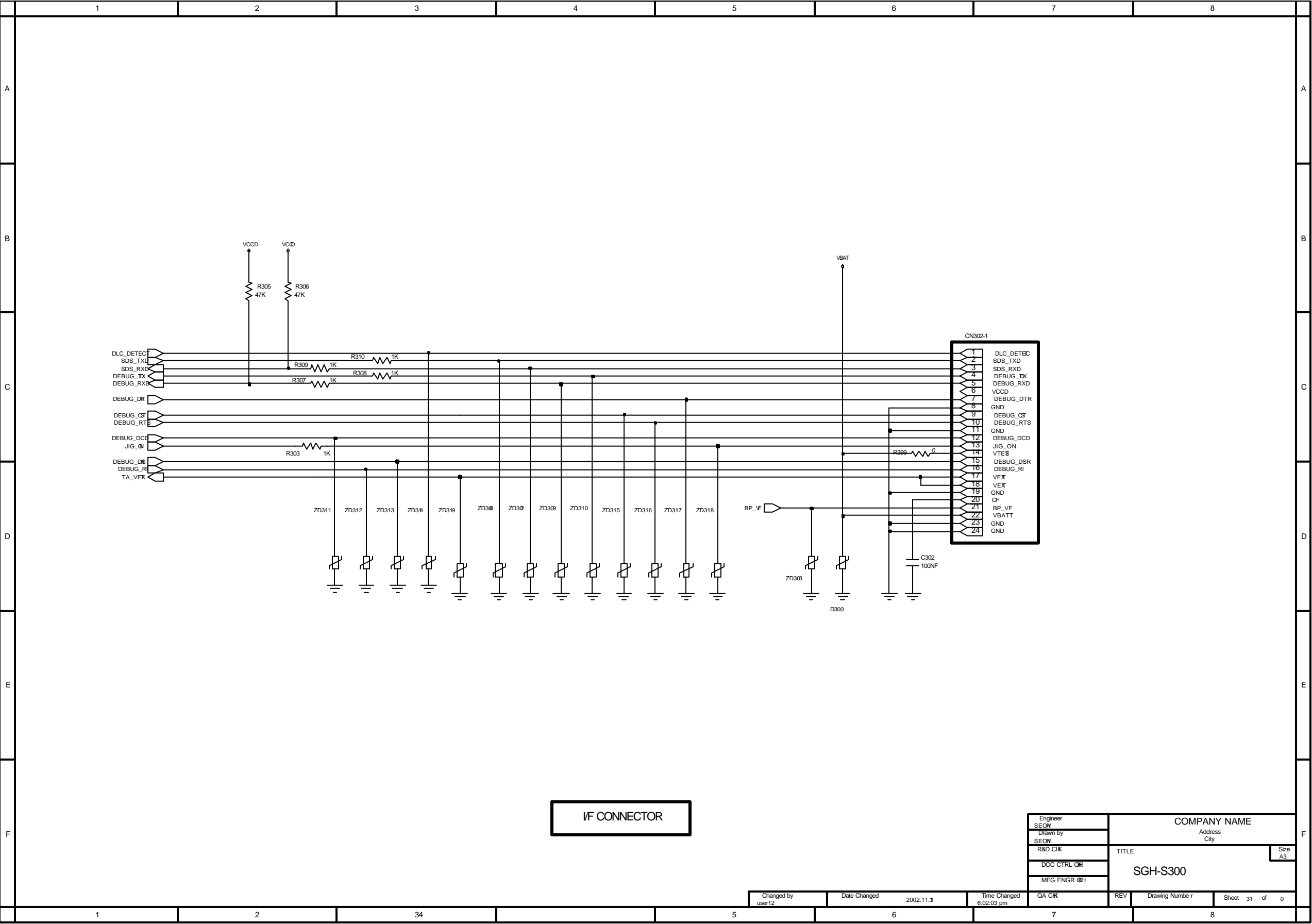


6. PCS Transmitter

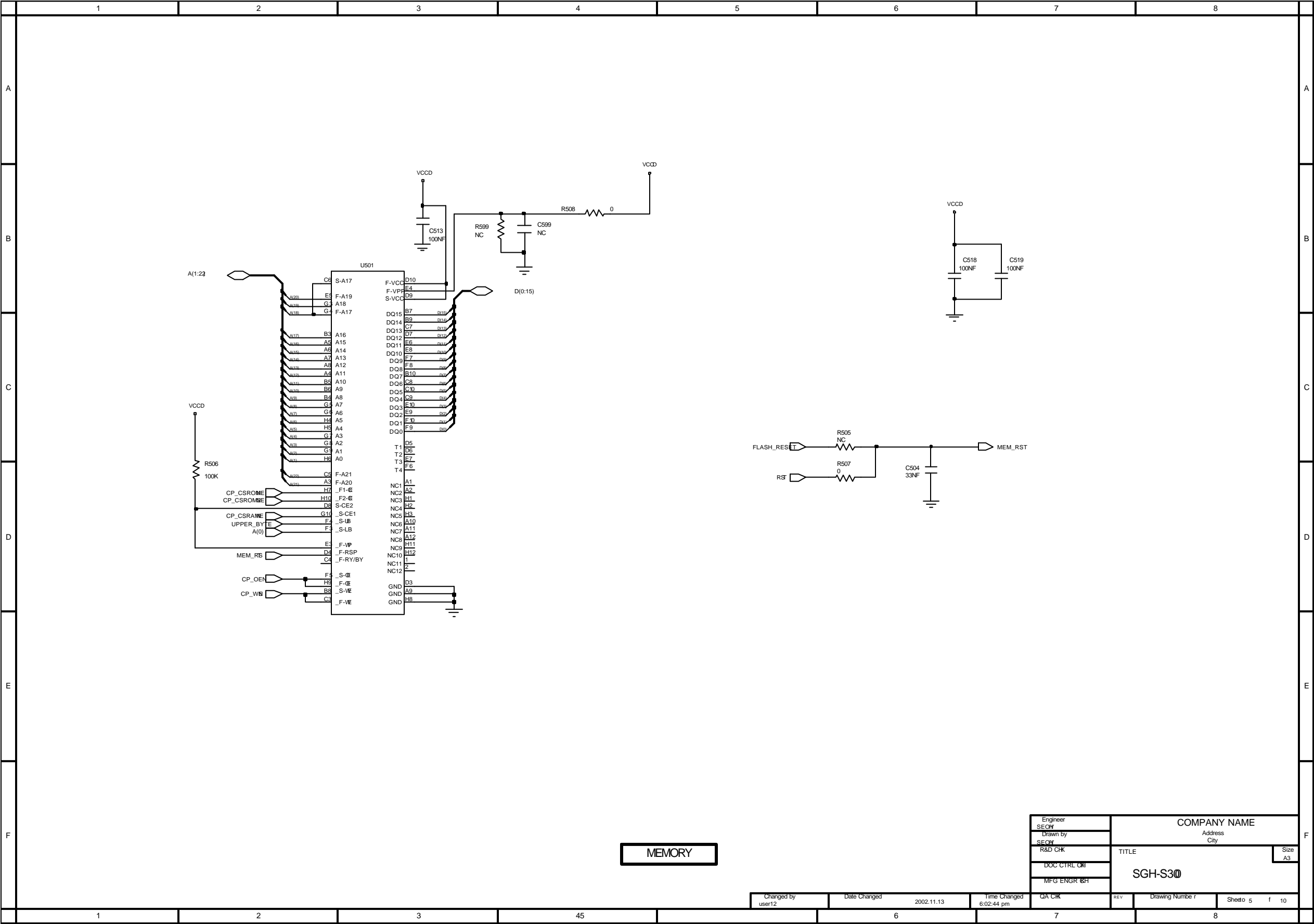


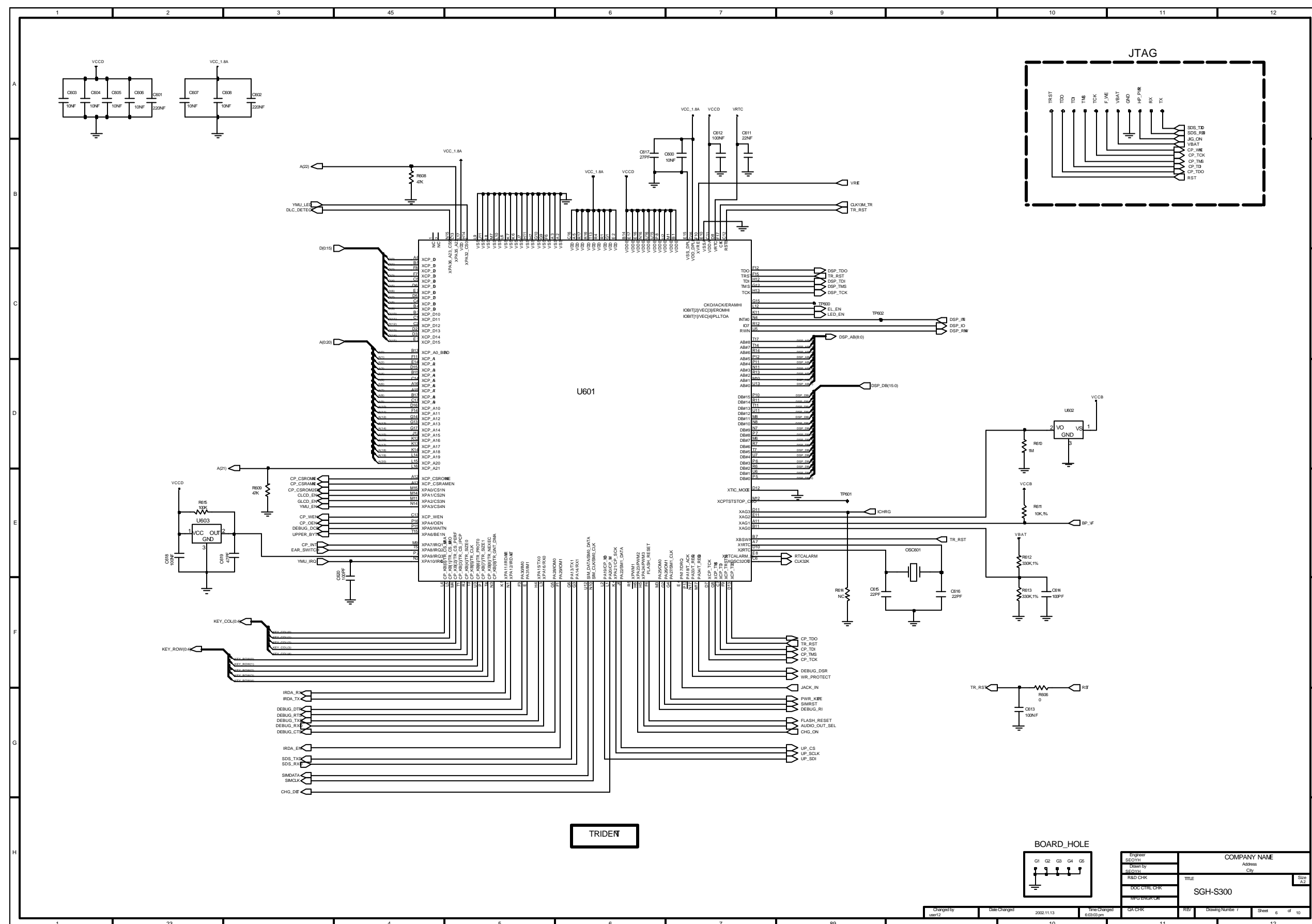


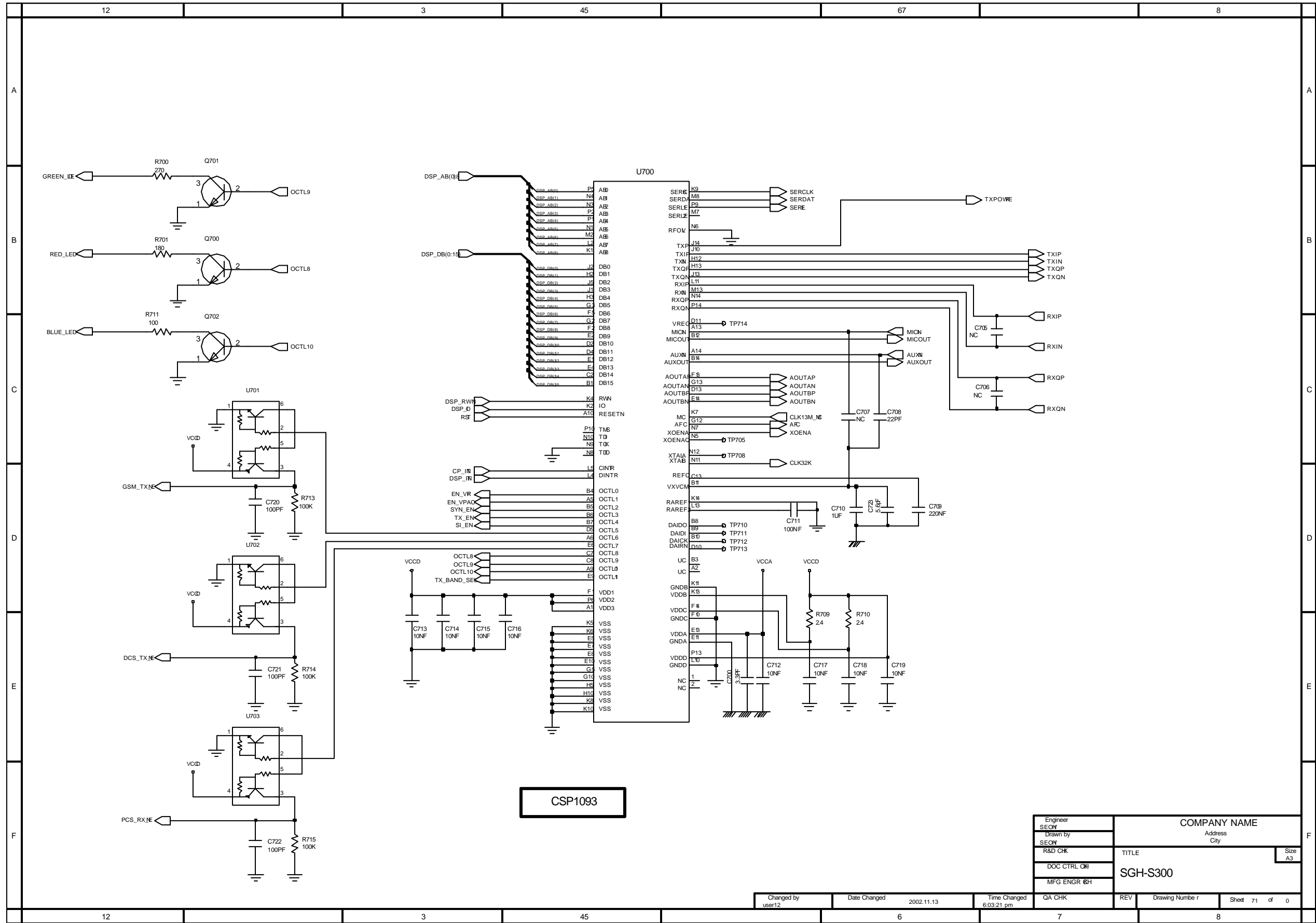


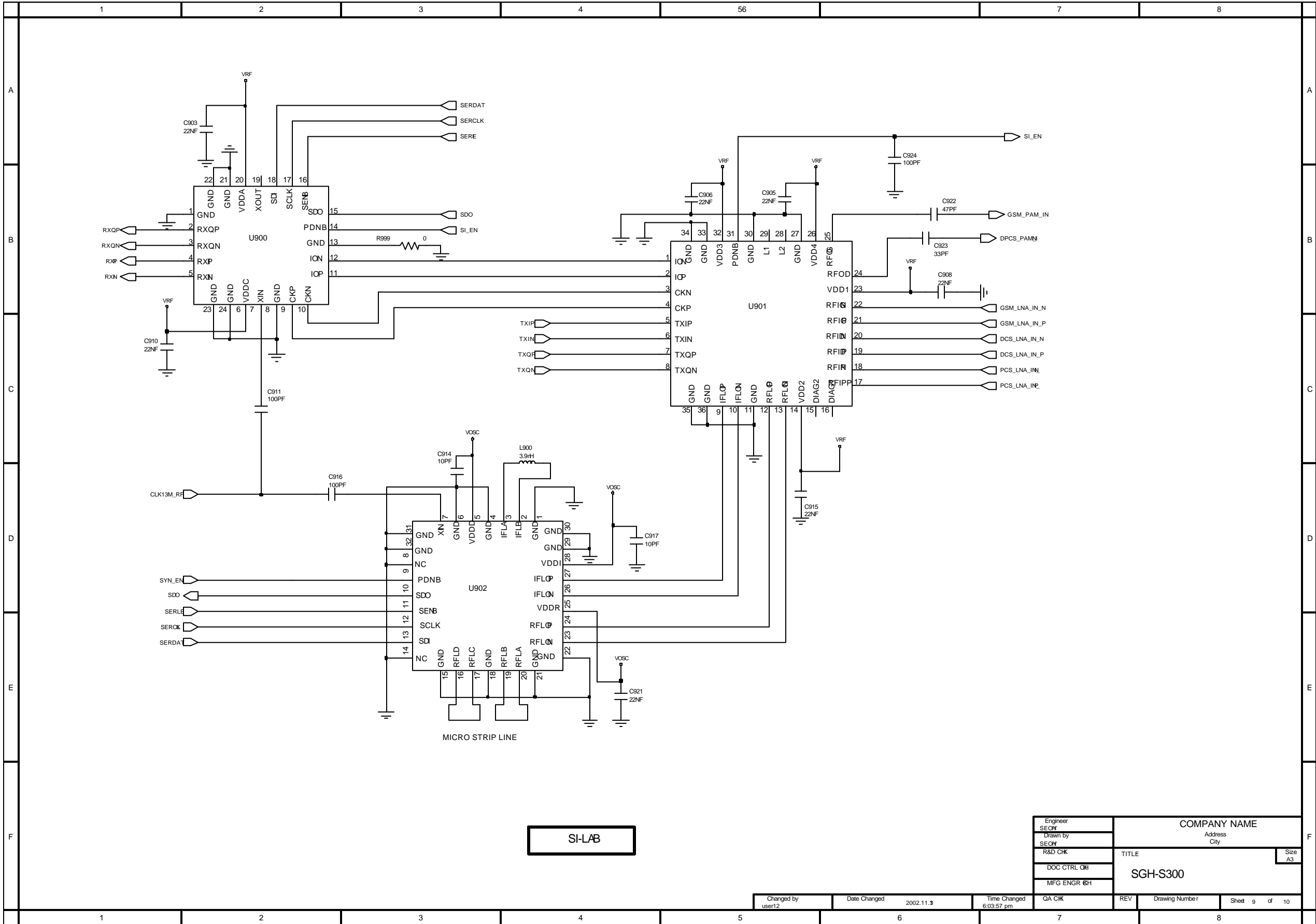


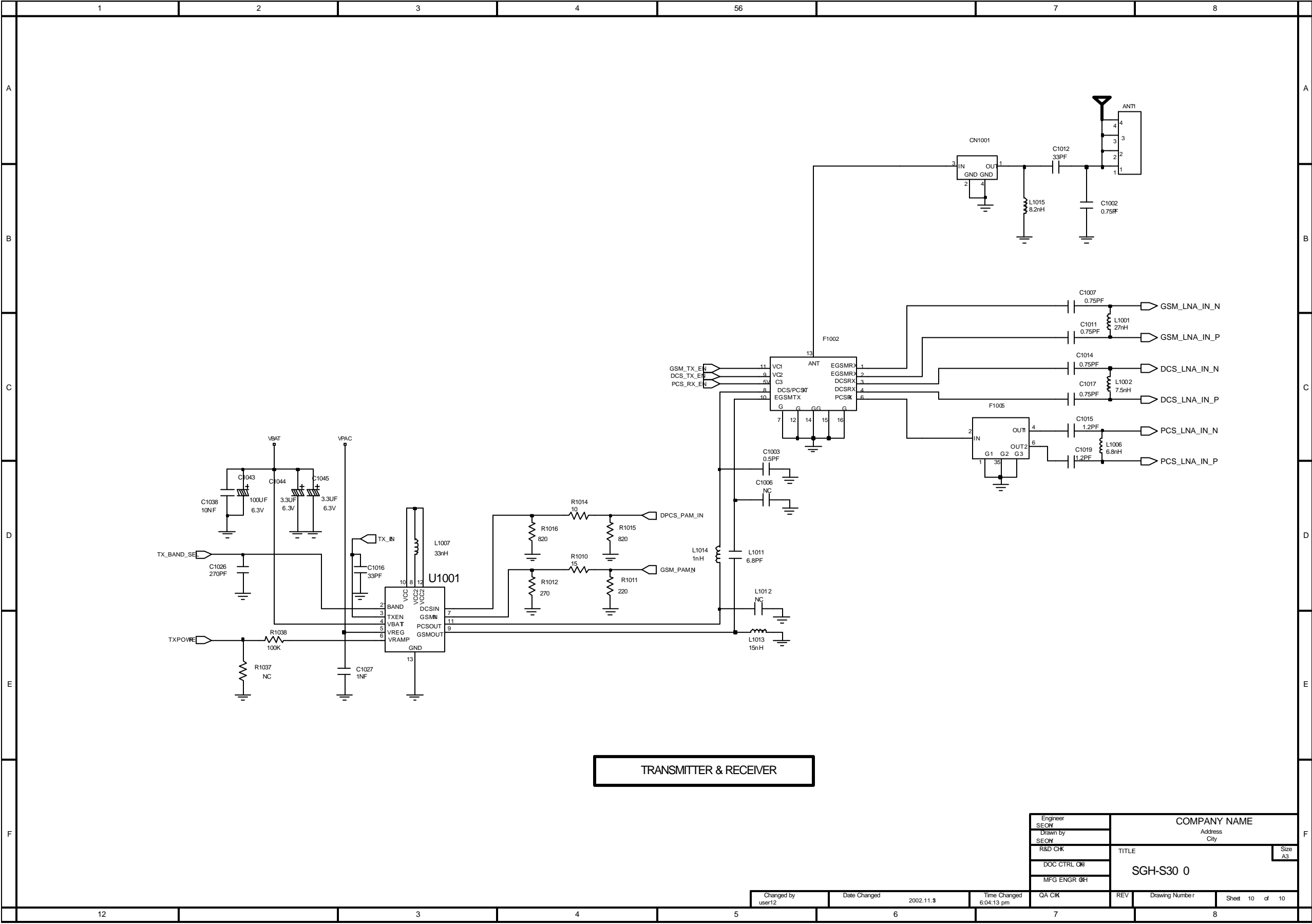














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