

SAMSUNG

GSM Mobile Cellular Phone SGH-500

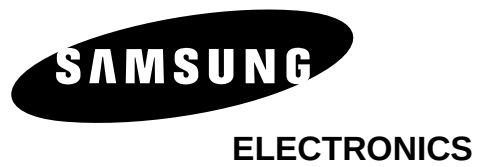
SERVICE ***Manual***

GSM Mobile Cellular Phone



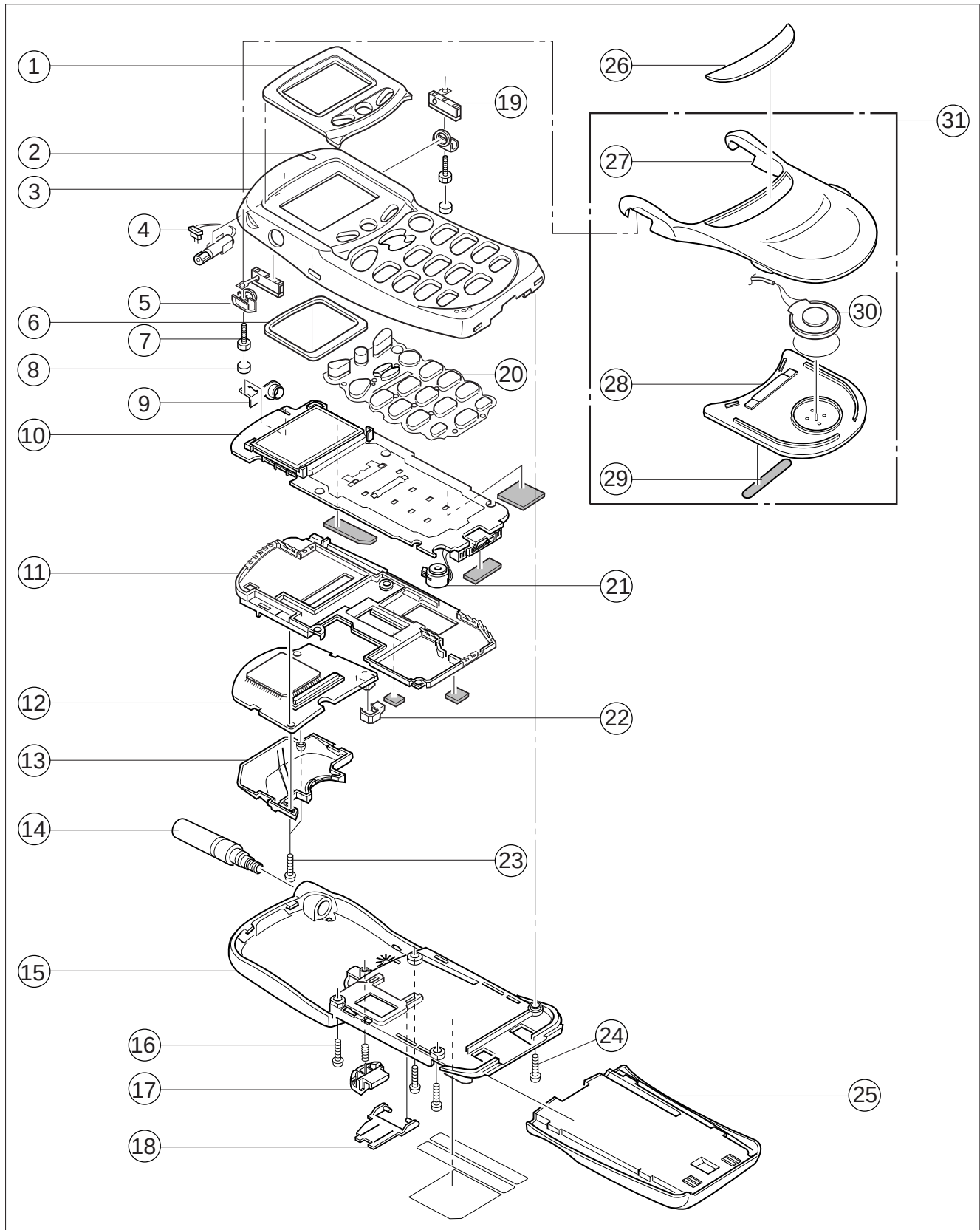
CONTENTS

1. Exploded Views and Parts List
2. Electrical Parts List
3. Block Diagram
4. PCB Views
5. Schematic Diagrams



1. Exploded View and Parts List

1-1 Main Exploded View



1-2 Main Exploded View Parts List

No.	Description	SEC Code			Remark
		Dark Gray	Deep Blue	Stone Gray	
1	WINDOW	GH72-41659A	GH72-41659C	GH72-41659B	
		GH72-41659D	GH72-41659F	GH72-41659Z	CHINA
2	REFLECTOR-LED	GH72-41653A	GH72-41653A	GH72-41653A	
3	FRONT COVER	GH75-11254A	GH75-11254B	GH75-11254C	
4	VIBRATOR	GH59-10069A	GH59-10069A	GH59-10069A	
5	FLIP DUMMY-L/R	GH72-41455G/H	GH72-41455J/K	GH72-41455E/F	
6	SPONGE BUMPER	GH74-10717A	GH74-10717A	GH74-10717A	
7	SCREW-MACHINE(M1.4/L3.5)	6001-001155	6001-001155	6001-001155	
8	FLIP DUMMY(RUBBER)	GH73-40658A	GH73-40658E	GH73-40658F	
9	ANTENNA BRACKET	GH71-10713A	GH71-10713A	GH71-10713A	
10	MAIN B'D	GH94-00809A	GH94-00809A	GH94-00809A	
		GH92-00737A	GH92-00737A	GH92-00737A	CHINA
11	SHIELD-MAIN	GH72-41657A	GH72-41657A	GH72-41657A	
12	MEMORY B'D	GH94-00854A	GH94-00854A	GH94-00854A	
		GH92-00738A	GH92-00738A	GH92-00738A	CHINA
13	SHIELD-LOGIC	GH72-41658A	GH72-41658A	GH72-41658A	
14	ANTENNA	GH42-00001A	GH42-00001A	GH42-00001A	
		GH42-00011A	GH42-00011A	GH42-00011A	CHINA
15	REAR COVER	GH72-41662A	GH72-41662A	GH72-41662A	
16	SCREW-MACHINE(L2/L3.5)	6001-001149	6001-001149	6001-001149	
17	BATTERY LOCKER	GH72-41663A	GH72-41663A	GH72-41663A	
18	CARD HOLDER	GH72-41664A	GH72-41664A	GH72-41664A	
19	FLIP BRACKET-L/R	GH75-11146A/B	GH75-11146A/B	GH75-11146A/B	
20	KEYPAD	GH72-41661A	GH72-41661A	GH72-41661A	
21	MIC HOLDER	GH72-41656A	GH72-41656A	GH72-41656A	
22	BUZZER HOLDER	GH73-40694A	GH73-40694A	GH73-40694A	
23	SCREW-TAPTIGHT(M1.4x4)	6003-001049	6003-001049	6003-001049	
24	SCREW-MACHINE(M2/L5)	6001-001148	6001-001148	6001-001148	
25	BATTERY	GH43-10091A	GH43-10089A	GH43-10101A	Slim(600 mA)
		GH43-10093A	GH43-10090A	GH43-10097A	Middle(900 mA)
		GH43-10328A	GH43-10327A	GH43-10329A	Long(1600 mA)
26	FLIP WINDOW	GH72-41660A	GH72-41660C	GH72-41660B	
		GH72-41660D	GH72-41660F	GH72-41660E	CHINA
27	FLIP UPPER	GH72-41654A	GH72-41654B	GH72-41654C	
28	FLIP LOWER	GH72-41655A	GH72-41655B	GH72-41655C	
29	FLIP LABEL	GH68-31050D	GH68-31050E	GH68-31050F	
30	SPEAKER	3009-001024	3009-001024	3009-001024	
31	FLIP ASS'Y	GH97-00838A	GH97-00838B	GH97-00838C	

2. Electrical Parts LIST

2-1 Main Parts List (Europe)

Location No.	Description	SEC Code	Remark
RDS161	SWITCH-REED 200 V, 0.5A, -, -	3409-001002	
BAT201	BATTERY-POLYMER 3.3 V, 0.065 mAH	4302-001026	
J161	DISPLAY LCD SGH-500, UG-09A12-FLHTX-B	GH07-20533A	
SEMI-CABLE	CBF SIG NAL- SGH-500, COAXIAL	GH39-20017A	
METALDOM	UNIT-KEY ARRAY SGH-500, YOU07d	GH59-10168A	
SHIELD SPONGE	GASKET- SGH-500, POLYURETHANE SPONGE	GH63-20056A	
SHIELD SPONGE	GASKET- SGH-500, POLYURETHANE SPONGE	GH63-20058A	
-	NPR-ANT.BRACKET SGH-500, CUZN, T0.5, AU	GH71-10713A	
BACKUP-TAPE	MCT-BACKUP TAPE SGH-600, TAPE	GH74-40518A	
-	PRA AUTO SMD-SGH-500, SEUK, UK	GH94-00809A	
D202	DIODE-ZENER UDZ3.0B, 3.0 V, 3.01-3.22 V	0403-001166	
D241, D242	DIODE-SCHOTTKY PRLL5819, 40 V, 1A	0404-001005	
D200	DIODE-SCHOTTKY UPS5817, 20 V, 1A	0404-001044	
D701	DIODE-SCHOTTKY HSMS-2805, 70 V	0404-001054	
U205	DIODE-SCHOTTKY RB425D, 20 V, 100 mA	0404-001074	
D402, D602	DIODE-VARACTOR BB149, 30 V, 10 nA	0405-001004	
D401, D601	DIODE-VARACTOR SMV1104-34, 15 V	0405-001005	
D151	DIODE-TVS SM05, 6V/1 mA, 300, SOT-23	0406-001005	
D201	DIODE-ARRAY UMN1, 80 V, 25 mA	0407-001007	
D155	DIODE-ARRAY SMS05, 5 V	0407-001030	
D181, D152	DIODE-ARRAY SMS05, 5 V	0407-001030	
D153, D154	DIODE-ARRAY SMS05, 5 V	0407-001030	
Q164	TR-S MALL SIG NAL KSA812, PNP, 150 mW	0501-000002	
Q401	TR-S MALL SIG NAL NPN, 8 V, 5 V, 6.5 mA	0501-002005	
Q163	TR-S MALL SIG NAL 2SD2114K, NPN	0501-002011	
Q702	TR-S MALL SIG NAL AT32033, NPN	0501-002110	
Q161, Q162	TR-DIGITAL RN1102, NPN, 100 mW	0504-000167	
Q221, Q241	TR-DIGITAL RN1102, NPN, 100 mW	0504-000167	
Q242	FET-SILICON TP0202T, P, -20 V, -0.75A	0505-001007	
U405	TR-ARRAY uPA800T-T1, NPN, 2, 20 V	0506-001002	
U201, U403	TR-ARRAY UMD3N, NPN/PNP, 2, 300 mW	0506-001003	
U404, U604	TR-ARRAY UMD3N, NPN/PNP, 2, 300 mW	0506-001003	
U605	TR-ARRAY UMD3N, NPN/PNP, 2, 300 mW	0506-001003	
U503, U795	TR-ARRAY UMC5N, NPN/PNP, 2, 50 V	0506-001004	

Location No.	Description	SEC Code	Remark
D161, D162	LED CHIP, Y/GRN, 0.8x1.2 mm, 570nm	0601-000273	
D163, D164	LED CHIP, Y/GRN, 0.8x1.2 mm, 570nm	0601-000273	
D165, D166	LED CHIP, Y/GRN, 0.8x1.2 mm, 570nm	0601-000273	
D167, D168	LED CHIP, Y/GRN, 0.8x1.2 mm, 570nm	0601-000273	
D169, D170	LED CHIP, Y/GRN, 0.8x1.2 mm, 570nm	0601-000273	
D171	LED CHIP, Y/GRN, 1.6x2.0 mm, 570nm	0601-000276	
U602, U603, U606	IC-CMOS LOGIC 7SET08, AND GATE	0801-002272	
U504	IC-OP AMP 2274, SOP, 14P, -, DUAL	1201-001007	
U702	IC-PREAMP 2771, SOP, 6P, 150 MIL, SINGLE	1201-001009	
U701	IC- MMIC AMP 2748, SOP, 6P, -, SINGLE	1201-001010	
U705	IC-OP AMP 7131, SOT-23, 5P, -, SINGLE	1201-001018	
U791	IC-RF AMP 240, SOT-388C, 4P, -, TRIPLE	1201-001282	
U401, U402	IC-SWITCH VOL. REG. 5205, SOP, 8P	1203-001207	
U181	IC-DC/DC CONVERTER 1555, SOP, 16P	1203-001289	
U241	IC-DC/DC CONVERTER 1705, SOP, 16P	1203-001386	
U242	IC-DC/DC CONVERTER 1308, SOP, 8P	1203-001557	
U204	IC-VOLTAGE REGULATOR 1015	1203-001592	
U406	IC-SWITCH VOL. REG. 1015, SOT-23A	1203-001593	
U501	IC-IF SYSTEM AD607, SOP, 20P	1204-001006	
U601	IC-TELE. WARM G1, QFP, 48P	1205-001006	
U104	IC-TIMER RS5C372A, SOP, 8P	1206-001009	
RTH161	THERMISTOR-NTC 15 kohm, 5, 3950K	1404-001103	
R183	R-CHIP 100 ohm, 5, 1/16 W	2007-000138	
R202, R527	R-CHIP 100 ohm, 5, 1/16 W	2007-000138	
R707	R-CHIP 220 ohm, 5, 1/16 W	2007-000139	
R169, R512, R515	R-CHIP 1 kohm, 5, 1/16 W	2007-000140	
R611, R724, R719	R-CHIP 1 kohm, 5, 1/16 W	2007-000140	
R403, R607	R-CHIP 2.7 kohm, 5, 1/16 W	2007-000142	
R170, R201	R-CHIP 4.7 kohm, 5, 1/16 W	2007-000143	
R526, R528	R-CHIP 4.7 kohm, 5, 1/16 W	2007-000143	
R723	R-CHIP 8.2 kohm, 5, 1/16 W	2007-000147	
R161, R203, R211	R-CHIP 10 kohm, 5, 1/16 W	2007-000148	
R221, R410	R-CHIP 10 kohm, 5, 1/16 W	2007-000148	
R411, R412	R-CHIP 10 kohm, 5, 1/16 W	2007-000148	
R413, R505, R701	R-CHIP 10 kohm, 5, 1/16 W	2007-000148	
R702	R-CHIP 10 kohm, 5, 1/16 W	2007-000148	
R609, R615	R-CHIP 12 kohm, 5, 1/16 W	2007-000149	

Location No.	Description	SEC Code	Remark
R171	R-CHIP 15 kohm, 5, 1/16 W	2007-000151	
R246, R213	R-CHIP 47 kohm, 5, 1/16 W	2007-000157	
R602	R-CHIP 56 kohm, 5, 1/16 W	2007-000159	
R172	R-CHIP 82 kohm, 5, 1/16 W	2007-000161	
R181, R182	R-CHIP 100 kohm, 5, 1/16 W	2007-000162	
R167, R204	R-CHIP 100 kohm, 5, 1/16 W	2007-000162	
R243, R621	R-CHIP 100 kohm, 5, 1/16 W	2007-000162	
R248, R622	R-CHIP 100 kohm, 5, 1/16 W	2007-000162	
R603	R-CHIP 120 kohm, 5, 1/16 W	2007-000163	
R525	R-CHIP 1Mohm, 5, 1/16 W	2007-000170	
R619	R-CHIP 0 ohm, 5, 1/16 W	2007-000171	
R617	R-CHIP 10 ohm, 5, 1/16 W	2007-000172	
R623, R725	R-CHIP 47 ohm, 5, 1/16 W	2007-000174	
R518, R519	R-CHIP 1.5 kohm, 5, 1/16 W	2007-000242	
R601, R604	R-CHIP 220 kohm, 5, 1/16 W	2007-000566	
R511, R520	R-CHIP 330 kohm, 5, 1/16 W	2007-000758	
R405, R510	R-CHIP 33 kohm, 5, 1/16 W	2007-000775	
R168, R517, R706	R-CHIP 470 ohm, 5, 1/16 W	2007-000932	
R513, R514, R516	R-CHIP 470 ohm, 5, 1/16 W	2007-000932	
R605	R-CHIP 5.6 kohm, 5, 1/16 W	2007-000982	
R612, R416	R-CHIP 680 ohm, 5, 1/16 W	2007-001119	
R712	R-CHIP 18 ohm, 5, 1/16 W	2007-001288	
R708	R-CHIP 39 ohm, 5, 1/16 W	2007-001295	
R705	R-CHIP 51 ohm, 5, 1/16 W	2007-001298	
R710, R166	R-CHIP 68 ohm, 5, 1/16 W	2007-001301	
R175, R176	R-CHIP 68 ohm, 5, 1/16 W	2007-001301	
R162, R163	R-CHIP 120 ohm, 5, 1/16 W	2007-001305	
R507, R508, R509	R-CHIP 330 ohm, 5, 1/16 W	2007-001313	
R408, R703	R-CHIP 820 ohm, 5, 1/16 W	2007-001316	
R606	R-CHIP 1.8 kohm, 5, 1/16 W	2007-001320	
R506, R608	R-CHIP 3.3 kohm, 5, 1/16 W	2007-001325	
R610, R613	R-CHIP 3.3 kohm, 5, 1/16 W	2007-001325	
R614	R-CHIP 3.3 kohm, 5, 1/16 W	2007-001325	
R722	R-CHIP 560 ohm, 5, 1/16 W	2007-002797	
R164, R165	R-CHIP 75 ohm, 5, 1/16 W	2007-007009	
R245	R-CHIP 100 kohm, 1, 1/16 W	2007-007107	
R174, R718	R-CHIP 15 kohm, 1, 1/16 W	2007-007132	

Location No.	Description	SEC Code	Remark
R721	R-CHIP 1.2 kohm, 1, 1/16 W	2007-007137	
R249	R-CHIP 10 kohm, 1, 1/16 W	2007-007142	
R715	R-CHIP 12 kohm, 1, 1/16 W	2007-007309	
R717	R-CHIP 8.2 kohm, 1, 1/16 W	2007-007310	
R704	R-CHIP 22 kohm, 1, 1/16 W	2007-007311	
R716, R404	R-CHIP 3.3 kohm, 1, 1/16 W	2007-007316	
R409	R-CHIP 1 kohm, 1, 1/16 W	2007-007318	
R402	R-CHIP 390 ohm, 1, 1/16 W	2007-007319	
R242	R-CHIP 200 kohm, 1, 1/16 W	2007-007334	
R713, R714	R-CHIP 240 ohm, 1, 1/16 W	2007-007517	
R241	R-CHIP 56 kohm, 1, 1/16 W	2007-007538	
R244, R250	R-CHIP 330 kohm, 1, 1/16 W	2007-007573	
R406, R401	R-CHIP 470 ohm, 1, 1/16 W	2007-007586	
R720	R-CHIP 1.8 kohm, 1, 1/16 W	2007-007588	
C221, C224, C405	C-CERAMIC, CHIP 100 pF, 5, 50 V	2203-000233	
C225, C226	C-CERAMIC, CHIP 100 pF, 5, 50 V	2203-000233	
C227, C228	C-CERAMIC, CHIP 100 pF, 5, 50 V	2203-000233	
C229, C230	C-CERAMIC, CHIP 100 pF, 5, 50 V	2203-000233	
C516, C623	C-CERAMIC, CHIP 100 pF, 5, 50 V	2203-000233	
C534, C713, C724	C-CERAMIC, CHIP 100 pF, 5, 50 V	2203-000233	
C703, C704, C728	C-CERAMIC, CHIP 100 pF, 5, 50 V	2203-000233	
C709, C712	C-CERAMIC, CHIP 100 pF, 5, 50 V	2203-000233	
C402, C411, C413	C-CERAMIC, CHIP 10 nF, 10, 16 V	2203-000254	
C418, C424, C720	C-CERAMIC, CHIP 10 nF, 10, 16 V	2203-000254	
C506	C-CERAMIC, CHIP 10 nF, 10, 16 V	2203-000254	
C619, C428	C-CERAMIC, CHIP 10 pF, 0.5 pF, 50 V	2203-000278	
C701, C705, C637	C-CERAMIC, CHIP 12 pF, 5, 50 V	2203-000330	
C410, C615	C-CERAMIC, CHIP 150 pF, 5, 50 V	2203-000359	
C632, C633	C-CERAMIC, CHIP 150 pF, 5, 50 V	2203-000359	
C702	C-CERAMIC, CHIP 15 pF, 5, 50 V	2203-000386	
C727	C-CERAMIC, CHIP 18 pF, 5, 50 V	2203-000425	
C150, C510	C-CERAMIC, CHIP 1 nF, 10, 50 V	2203-000438	
C511, C604	C-CERAMIC, CHIP 1 nF, 10, 50 V	2203-000438	
C151, C152	C-CERAMIC, CHIP 1 nF, 10, 50 V	2203-000438	
C251, C252	C-CERAMIC, CHIP 1 nF, 10, 50 V	2203-000438	
C512, C606, C620	C-CERAMIC, CHIP 1 nF, 10, 50 V	2203-000438	
C621, C721, C508	C-CERAMIC, CHIP 1 nF, 10, 50 V	2203-000438	

Location No.	Description	SEC Code	Remark
C613	C-CERAMIC, CHIP 1 pF, 0.25 pF, 50 V	2203-000466	
C523, C528, C616	C-CERAMIC, CHIP 2.2 nF, 10, 50 V	2203-000489	
C717, C611	C-CERAMIC, CHIP 220 pF, 10, 50 V	2203-000585	
C520, C525	C-CERAMIC, CHIP 3.3 nF, 10, 50 V	2203-000714	
C521, C526	C-CERAMIC, CHIP 3.9 nF, 10, 50 V	2203-000725	
C617	C-CERAMIC, CHIP 33 pF, 5, 50 V	2203-000812	
C403	C-CERAMIC, CHIP 470 pF, 10, 50 V	2203-000940	
C419, C423	C-CERAMIC, CHIP 470 pF, 10, 50 V	2203-000940	
C505, C718, C212	C-CERAMIC, CHIP 470 pF, 10, 50 V	2203-000940	
C535, C417	C-CERAMIC, CHIP 47 pF, 5, 50 V	2203-000995	
C522, C527	C-CERAMIC, CHIP 5.6 nF, 10, 25 V	2203-001033	
C610	C-CERAMIC, CHIP 6.8 nF, 10, 25 V	2203-001101	
C707	C-CERAMIC, CHIP 680 pF, 10, 50 V	2203-001124	
C618, C601, C607	C-CERAMIC, CHIP 68 pF, 5, 50 V	2203-001153	
C626	C-CERAMIC, CHIP 6 pF, 0.5 pF, 50 V	2203-001178	
C427	C-CERAMIC, CHIP 8.2 nF, 10, 16 V	2203-001210	
C714, C609, C536	C-CERAMIC, CHIP 820 pF, 10, 50 V	2203-001221	
C501	C-CERAMIC, CHIP 82 pF, 5, 50 V	2203-001239	
C723, C530	C-CERAMIC, CHIP 0.5 pF, 0.25 pF, 50 V	2203-001383	
C614	C-CERAMIC, CHIP 1.5 pF, 0.25 pF, 50 V	2203-001385	
C246, C631	C-CERAMIC, CHIP 22 nF, 20, 25 V1.0 mm	2203-001405	
C710	C-CERAMIC, CHIP 30 pF, 5, 50 V, X7R	2203-001412	
C209	C-CERAMIC, CHIP 33 nF, 10, 16 V1.0 mm	2203-001416	
C161, C163, C164	C-CERAMIC, CHIP 2.2 uF, +80-20, 16 V	2203-001598	
C242, C243	C-CERAMIC, CHIP 330 nF, +80-20, 16 V	2203-001630	
C519, C524	C-CERAMIC, CHIP 330 pF, 10, 50 V	2203-002443	
C719	C-CERAMIC, CHIP 1.2 nF, 10, 50 V	2203-002687	
C630	C-CERAMIC, CHIP 1.8 pF, 0.25 pF, 50 V	2203-005050	
C409, C414	C-CERAMIC, CHIP 3.3 pF, 0.25 pF, 50 V	2203-005052	
C629, C624	C-CERAMIC, CHIP 3.3 pF, 0.25 pF, 50 V	2203-005052	
C627, C628	C-CERAMIC, CHIP 3.9 pF, 0.25 pF, 50 V	2203-005053	
C415	C-CERAMIC, CHIP 6.8 pF, 0.25 pF, 50 V	2203-005056	
C181, C185	C-CERAMIC, CHIP 100 nF, +80-20, 16 V	2203-005061	
C186, C214	C-CERAMIC, CHIP 100 nF, +80-20, 16 V	2203-005061	
C244, C249	C-CERAMIC, CHIP 100 nF, +80-20, 16 V	2203-005061	
C406, C416	C-CERAMIC, CHIP 100 nF, +80-20, 16 V	2203-005061	
C503, C507, C513	C-CERAMIC, CHIP 100 nF, +80-20, 16 V	2203-005061	

Location No.	Description	SEC Code	Remark
C514, C517	C-CERAMIC, CHIP 100 nF, +80-20, 16 V	2203-005061	
C518, C529	C-CERAMIC, CHIP 100 nF, +80-20, 16 V	2203-005061	
C532, C157, C156	C-CERAMIC, CHIP 100 nF, +80-20, 16 V	2203-005061	
C603, C153	C-CERAMIC, CHIP 100 nF, +80-20, 16 V	2203-005061	
C154, C155	C-CERAMIC, CHIP 100 nF, +80-20, 16 V	2203-005061	
C605, C408	C-CERAMIC, CHIP 100 nF, +80-20, 16 V	2203-005061	
C250, C401, C634	C-CERAMIC, CHIP 1 uF, +80-20, 10 V, Y5 V	2203-005065	
C407, C504, C515	C-CERAMIC, CHIP 1 uF, +80-20, 10 V, Y5 V	2203-005065	
C165, C166	C-CERAMIC, CHIP 100 nF, 10, 16 V, X7R	2203-005148	
C167, C168	C-CERAMIC, CHIP 100 nF, 10, 16 V, X7R	2203-005148	
C169	C-CERAMIC, CHIP 100 nF, 10, 16 V, X7R	2203-005148	
C708, C509	C-CERAMIC, CHIP 2.2 pF, 0.25 pF, 50 V	2203-005158	
C612	C-CERAMIC, CHIP 4.7 pF, 0.1 pF, 50 V	2203-005395	
C711	C-CERAMIC, CHIP 180 pF, 5, 25 V	2203-005503	
C404, C420, C726	C-TA, CHIP 10 uF, 20, 10 V	2404-001020	
C241	C-TA, CHIP 33 uF, 20, 6.3 V	2404-001032	
C182, C213, C426	C-TA, CHIP 10 uF, 20, 6.3 V	2404-001064	
C245, C248	C-TA, CHIP 220 uF, 20, 6.3 V	2404-001083	
C775, C183	C-TA, CHIP 33 uF, 20, 6.3 V	2404-001100	
C247	C-TA, CHIP 100 uF, 20, 16 V	2404-001107	
L241	INDUCTOR-SMD 10 uH	2703-000001	
L504, L506	INDUCTOR-SMD 1 mH	2703-000153	
L242	INDUCTOR-SMD 22 uH	2703-000172	
L606	INDUCTOR-SMD 18 nH	2703-001028	
L605	INDUCTOR-SMD 180 nH	2703-001043	
L604	INDUCTOR-SMD 2.7 uH	2703-001047	
L602	INDUCTOR-SMD 8.2 nH	2703-001063	
L609	INDUCTOR-SMD 8.8 nH	2703-001078	
L501, L507	INDUCTOR-SMD 220 nH	2703-001079	
L707	INDUCTOR-SMD 1.2 nH	2703-001204	
L705	INDUCTOR-SMD 3.3 nH	2703-001258	
L503, L505	INDUCTOR-SMD 680 uH	2703-001417	
L709	INDUCTOR-SMD 100 nH	2703-001513	
L704	INDUCTOR-SMD 33 nH	2703-001543	
L706	INDUCTOR-SMD 47 nH	2703-001545	
L607, L608, L610	INDUCTOR-SMD 120 nH	2703-001546	
L710, L708	INDUCTOR-SMD 10 nH	2703-001547	

Location No.	Description	SEC Code	Remark
L502	INDUCTOR-SMD 82 nH	2703-001685	
L711	INDUCTOR-SMD 5.6 nH, 0.3 nH	2703-001748	
X101	CRYSTAL-UNIT 32.768KHz, 20 ppm	2801-003602	
X401	CRYSTAL-SMD 13 MHz, 10 ppm	2801-003603	
F501	FILTER-CERAMIC IF, 13.0 MHz	2903-001002	
F701, F702	FILTER-SAW 890-915 MHz	2904-001003	
F703	FILTER-SAW 947.5 MHz, 25 MHz	2904-001042	
U502	FILTER-SAW 83 MHz, 160KHz, -, TP, 10 dB, -	2904-001078	
U707	FILTER-DUPLEXER 947 MHz, 902 MHz	2909-001059	
J181	CONNECTOR-CARD EDGE 6P, 2.54 mm	3709-001086	
J151	CONNECTOR-SOCKET 18P, 1R, 0.5 mm	3710-001309	
J221	CONNECTOR-SOCKET 80P, 2R, 0.5 mm	3710-001312	
U706	COUPLER-DIRECTION 902.5+-12.5 MHz	4709-001008	
U607	RF-MODULE 900+-100 MHz, 50 ohm	4709-001063	
PCB	PCB- MAIN , EPOXY, 6L, T0.8, 118.25*13	GH41-10632A	
SHIELD SPONGE	GASKET- SGH-500, POLYURETHANE	GH63-00001A	
SHIELD SPONGE	GASKET- SGH-500, POLYURETHANE	GH63-20057A	
SHIELD SPONGE	GASKET- SGH-500, POLYURETHANE	GH63-20059A	
SHIELD SPONGE	GASKET- SGH-500, POLYURETHANE	GH63-20060A	
-	NPR-SHIELD STRIP(A) SCH-1100	GH71-10639A	
-	NPR-SHIELD STRIP(B) SCH-1100	GH71-10640A	
-	NPR-SHIELD STRIP(C) SCH-1100	GH71-10641A	
-	NPR-SHIELD STRIP(D) SCH-1100	GH71-10643A	
-	NPR-SHIELD STRIP SCH-1900, C5210S-3/4H	GH71-10644A	
-	MIC-CONDENSOR 2 V, 130 uA, 48 dB	3003-001026	
-	RMO-MIC ADAPTOR SPH-5000, RUBBER	GH73-40657A	

2-2 Main Parts List (China)

Location No.	Description	SEC Code	Remark
D202	DIODE-ZENER UDZ3.0B, 3.0 V, 3.01-3.22 V	0403-001166	
D241, D242	DIODE-SCHOTTKY PRLL5819, 40 V, 1A	0404-001005	
D200	DIODE-SCHOTTKY UPS5817, 20 V, 1A	0404-001044	
D701	DIODE-SCHOTTKY HSMS-2805, 70 V	0404-001054	
U205	DIODE-SCHOTTKY RB425D, 20 V, 100 mA	0404-001074	
D402, D602	DIODE-VARACTOR BB149, 30 V, 10 nA	0405-001004	
D401, D601	DIODE-VARACTOR SMV1104-34, 15 V, 50 nA,	0405-001005	
D151	DIODE-TVS SM05, 6V/1 mA, 300, SOT-23	0406-001005	
D201	DIODE-ARRAY UMN1, 80 V, 25 mA	0407-001007	
D155	DIODE-ARRAY SMS05, 5 V, -, CK5-2	0407-001030	
D181, D152	DIODE-ARRAY SMS05, 5 V, -, CK5-2	0407-001030	
D153, D154	DIODE-ARRAY SMS05, 5 V, -, CK5-2	0407-001030	
Q401	TR-S MALL SIGNAL NPN, 8 V, 5 V, 6.5 mA	0501-002005	
Q163	TR-S MALL SIGNAL 2SD2114K, NPN	0501-002011	
Q702	TR-S MALL SIGNAL AT32033, NPN	0501-002110	
Q161, Q162	TR-DIGITAL RN1102, NPN, 100 mW	0504-000167	
Q221, Q241	TR-DIGITAL RN1102, NPN, 100 mW	0504-000167	
Q242	FET-SILICON TP0202T, P, -20 V	0505-001007	
U405	TR-ARRAY uPA800T-T1, NPN	0506-001002	
U201, U403	TR-ARRAY UMD3N, NPN/PNP, 2, 300 mW	0506-001003	
U404, U604	TR-ARRAY UMD3N, NPN/PNP, 2, 300 mW	0506-001003	
U605	TR-ARRAY UMD3N, NPN/PNP, 2, 300 mW	0506-001003	
U503, U795	TR-ARRAY UMC5N, NPN/PNP, 2, 50 V	0506-001004	
D161, D162	LED CHIP, Y/GRN, 0.8 x 1.2 mm, 570 nm	0601-000273	
D163, D164	LED CHIP, Y/GRN, 0.8 x 1.2 mm, 570 nm	0601-000273	
D165, D166	LED CHIP, Y/GRN, 0.8 x 1.2 mm, 570 nm	0601-000273	
D167, D168	LED CHIP, Y/GRN, 0.8 x 1.2 mm, 570 nm	0601-000273	
D169, D170	LED CHIP, Y/GRN, 0.8 x 1.2 mm, 570 nm	0601-000273	
D171	LED CHIP, Y/GRN, 1.6 x 2.0 mm, 570 nm	0601-000276	
U602, U603, U606	IC-CMOS LOGIC 7SET08, AND GATE	0801-002272	
U504	IC-OP AMP 2274, SOP, 14P, -, DUAL	1201-001007	
U702	IC-PREAMP 2771, SOP, 6P, 150 MIL	1201-001009	
U701	IC- MMIC AMP 2748, SOP, 6P, -, SINGLE	1201-001010	
U705	IC-OP AMP 7131, SOT-23, 5P, -, SINGLE	1201-001018	
U791	IC-RF AMP 240, SOT-388C, 4P, -, TRIPLE	1201-001282	
U401, U402	IC-SWITCH VOL. REG. 5205, SOP, 8P	1203-001207	

Location No.	Description	SEC Code	Remark
U181	IC-DC/DC CONVERTER 1555, SOP, 16P	1203-001289	
U241	IC-DC/DC CONVERTER 1705, SOP, 16P	1203-001386	
U242	IC-DC/DC CONVERTER 1308, SOP, 8P	1203-001557	
U204	IC-VOLTAGE REGULATOR 1015	1203-001592	
U406	IC-SWITCH VOL. REG. 1015, SOT-23A	1203-001593	
U501	IC-IF SYSTEM AD607, SOP, 20P	1204-001006	
U601	IC-TELE. WARM G1, QFP, 48P	1205-001006	
U104	IC-TIMER RS5C372A, SOP, 8P	1206-001009	
R172	R-CHIP 150 kohm, 5 %, 1/16 W	2007-000104	
R171	R-CHIP 1 Mohm, 5 %, 1/16 W	2007-000109	
R183	R-CHIP 100 ohm, 5 %, 1/16 W	2007-000138	
R202, R527	R-CHIP 100 ohm, 5 %, 1/16 W	2007-000138	
R707	R-CHIP 220 ohm, 5 %, 1/16 W	2007-000139	
R169, R512, R515	R-CHIP 1 kohm, 5 %, 1/16 W	2007-000140	
R611, R724, R719	R-CHIP 1 kohm, 5 %, 1/16 W	2007-000140	
R403, R607	R-CHIP 2.7 kohm, 5 %, 1/16 W	2007-000142	
R170, R201	R-CHIP 4.7 kohm, 5 %, 1/16 W	2007-000143	
R526, R528	R-CHIP 4.7 kohm, 5 %, 1/16 W	2007-000143	
R723	R-CHIP 8.2 kohm, 5 %, 1/16 W	2007-000147	
R161, R203	R-CHIP 10 kohm, 5 %, 1/16 W	2007-000148	
R211, R212	R-CHIP 10 kohm, 5 %, 1/16 W	2007-000148	
R221, R410	R-CHIP 10 kohm, 5 %, 1/16 W	2007-000148	
R411, R412	R-CHIP 10 kohm, 5 %, 1/16 W	2007-000148	
R413, R505, R701	R-CHIP 10 kohm, 5 %, 1/16 W	2007-000148	
R702	R-CHIP 10 kohm, 5 %, 1/16 W	2007-000148	
R609, R615	R-CHIP 12 kohm, 5 %, 1/16 W	2007-000149	
R246, R213	R-CHIP 47 kohm, 5 %, 1/16 W	2007-000157	
R602	R-CHIP 56 kohm, 5 %, 1/16 W	2007-000159	
R181, R182	R-CHIP 100 kohm, 5 %, 1/16 W	2007-000162	
R167, R204	R-CHIP 100 kohm, 5 %, 1/16 W	2007-000162	
R243, R621	R-CHIP 100 kohm, 5 %, 1/16 W	2007-000162	
R248, R622	R-CHIP 100 kohm, 5 %, 1/16 W	2007-000162	
R603	R-CHIP 120 kohm, 5 %, 1/16 W	2007-000163	
R525	R-CHIP 1 Mohm, 5 %, 1/16 W	2007-000170	
R619	R-CHIP 0 ohm, 5 %, 1/16 W	2007-000171	
R617	R-CHIP 10 ohm, 5 %, 1/16 W	2007-000172	

Location No.	Description	SEC Code	Remark
R623, R725	R-CHIP 47 ohm, 5 %, 1/16 W	2007-000174	
R518, R519	R-CHIP 1.5 kohm, 5 %, 1/16 W	2007-000242	
R173	R-CHIP 110 kohm, 5 %, 1/16 W	2007-000317	
R601, R604	R-CHIP 220 kohm, 5 %, 1/16 W	2007-000566	
R511, R520	R-CHIP 330 kohm, 5 %, 1/16 W	2007-000758	
R405, R510	R-CHIP 33 kohm, 5 %, 1/16 W	2007-000775	
R168, R517, R706	R-CHIP 470 ohm, 5 %, 1/16 W	2007-000932	
R513, R514, R516	R-CHIP 470 ohm, 5 %, 1/16 W	2007-000932	
R605	R-CHIP 5.6 kohm, 5 %, 1/16 W	2007-000982	
R612, R416	R-CHIP 680 ohm, 5 %, 1/16 W	2007-001119	
R712	R-CHIP 18 ohm, 5 %, 1/16 W	2007-001288	
R708	R-CHIP 39 ohm, 5 %, 1/16 W	2007-001295	
R705	R-CHIP 51 ohm, 5 %, 1/16 W	2007-001298	
R710, R166	R-CHIP 68 ohm, 5 %, 1/16 W	2007-001301	
R175, R176	R-CHIP 68 ohm, 5 %, 1/16 W	2007-001301	
R162, R163	R-CHIP 120 ohm, 5 %, 1/16 W	2007-001305	
R507, R508, R509	R-CHIP 330 ohm, 5 %, 1/16 W	2007-001313	
R408, R703	R-CHIP 820 ohm, 5 %, 1/16 W	2007-001316	
R606	R-CHIP 1.8 kohm, 5 %, 1/16 W	2007-001320	
R506, R608	R-CHIP 3.3 kohm, 5 %, 1/16 W	2007-001325	
R610, R613	R-CHIP 3.3 kohm, 5 %, 1/16 W	2007-001325	
R614	R-CHIP 3.3 kohm, 5 %, 1/16 W	2007-001325	
R722	R-CHIP 560 ohm, 5 %, 1/16 W	2007-002797	
R164, R165	R-CHIP 75 ohm, 5 %, 1/16 W	2007-007009	
R245	R-CHIP 100 kohm, 1 %, 1/16 W	2007-007107	
R718	R-CHIP 15 kohm, 1 %, 1/16 W	2007-007132	
R721	R-CHIP 1.2 kohm, 1 %, 1/16 W	2007-007137	
R249	R-CHIP 10 kohm, 1 %, 1/16 W	2007-007142	
R715	R-CHIP 12 kohm, 1 %, 1/16 W	2007-007309	
R717	R-CHIP 8.2 kohm, 1 %, 1/16 W	2007-007310	
R704	R-CHIP 22 kohm, 1 %, 1/16 W	2007-007311	
R716, R404	R-CHIP 3.3 kohm, 1 %, 1/16 W	2007-007316	
R409	R-CHIP 1 kohm, 1 %, 1/16 W	2007-007318	
R402	R-CHIP 390 ohm, 1 %, 1/16 W	2007-007319	
R242	R-CHIP 200 kohm, 1 %, 1/16 W	2007-007334	
R713, R714	R-CHIP 240 ohm, 1 %, 1/16 W	2007-007517	
R241	R-CHIP 56 kohm, 1 %, 1/16 W	2007-007538	

Location No.	Description	SEC Code	Remark
R244, R250	R-CHIP 330 kohm, 1 %, 1/16 W	2007-007573	
R406, R401	R-CHIP 470 ohm, 1 %, 1/16 W	2007-007586	
R720	R-CHIP 1.8 kohm, 1 %, 1/16 W	2007-007588	
C221, C224, C405	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C225, C226	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C227, C228	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C229, C230	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C516, C623	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C534, C713, C724	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C703, C704, C728	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C709, C712	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C402, C411, C413	C-CERAMIC, CHIP 10 nF, 10 %, 16 V	2203-000254	
C418, C424, C720	C-CERAMIC, CHIP 10 nF, 10 %, 16 V	2203-000254	
C506	C-CERAMIC, CHIP 10 nF, 10 %, 16 V	2203-000254	
C619, C428	C-CERAMIC, CHIP 10 pF, 0.5 pF, 50 V	2203-000278	
C701, C705, C637	C-CERAMIC, CHIP 12 pF, 5 %, 50 V	2203-000330	
C410, C615	C-CERAMIC, CHIP 150 pF, 5 %, 50 V	2203-000359	
C632, C633	C-CERAMIC, CHIP 150 pF, 5 %, 50 V	2203-000359	
C702	C-CERAMIC, CHIP 15 pF, 5 %, 50 V	2203-000386	
C727	C-CERAMIC, CHIP 18 pF, 5 %, 50 V	2203-000425	
C150, C510	C-CERAMIC, CHIP 1 nF, 10 %, 50 V	2203-000438	
C511, C604	C-CERAMIC, CHIP 1 nF, 10 %, 50 V	2203-000438	
C151, C152	C-CERAMIC, CHIP 1 nF, 10 %, 50 V	2203-000438	
C251, C252	C-CERAMIC, CHIP 1 nF, 10 %, 50 V	2203-000438	
C512, C606, C620	C-CERAMIC, CHIP 1 nF, 10 %, 50 V	2203-000438	
C621, C721, C508	C-CERAMIC, CHIP 1 nF, 10 %, 50 V	2203-000438	
C613	C-CERAMIC, CHIP 1 pF, 0.25 pF, 50 V	2203-000466	
C523, C528, C616	C-CERAMIC, CHIP 2.2 nF, 10 %, 50 V	2203-000489	
C717, C611	C-CERAMIC, CHIP 220 pF, 10 %, 50 V	2203-000585	
C520, C525	C-CERAMIC, CHIP 3.3 nF, 10 %, 50 V	2203-000714	
C521, C526	C-CERAMIC, CHIP 3.9 nF, 10 %, 50 V	2203-000725	
C617	C-CERAMIC, CHIP 33 pF, 5 %, 50 V	2203-000812	
C403	C-CERAMIC, CHIP 470 pF, 10 %, 50 V	2203-000940	
C419, C423	C-CERAMIC, CHIP 470 pF, 10 %, 50 V	2203-000940	
C505, C718, C212	C-CERAMIC, CHIP 470 pF, 10 %, 50 V	2203-000940	
C535, C417	C-CERAMIC, CHIP 47 pF, 5 %, 50 V	2203-000995	
C522, C527	C-CERAMIC, CHIP 5.6 nF, 10 %, 25 V	2203-001033	

Location No.	Description	SEC Code	Remark
C610	C-CERAMIC, CHIP 6.8 nF, 10 %, 25 V	2203-001101	
C707	C-CERAMIC, CHIP 680 pF, 10 %, 50 V	2203-001124	
C618, C601, C607	C-CERAMIC, CHIP 68 pF, 5 %, 50 V	2203-001153	
C626	C-CERAMIC, CHIP 6 pF, 0.5 pF, 50 V	2203-001178	
C427	C-CERAMIC, CHIP 8.2 nF, 10 %, 16 V	2203-001210	
C714, C609, C536	C-CERAMIC, CHIP 820 pF, 10 %, 50 V	2203-001221	
C501	C-CERAMIC, CHIP 82 pF, 5 %, 50 V	2203-001239	
C723, C530	C-CERAMIC, CHIP 0.5 pF, 0.25 pF, 50 V	2203-001383	
C614	C-CERAMIC, CHIP 1.5 pF, 0.25 pF, 50 V	2203-001385	
C246, C631	C-CERAMIC, CHIP 22 nF, 20 %, 25 V	2203-001405	
C710	C-CERAMIC, CHIP 30 pF, 5 %, 50 V	2203-001412	
C209	C-CERAMIC, CHIP 33 nF, 10 %, 16 V	2203-001416	
C166, C167	C-CERAMIC, CHIP 2.2 uF, +80-20 %	2203-001598	
C168, C169	C-CERAMIC, CHIP 2.2 uF, +80-20 %	2203-001598	
C242, C243	C-CERAMIC, CHIP 330 nF, +80-20 %	2203-001630	
C519, C524	C-CERAMIC, CHIP 330 pF, 10 %, 50 V	2203-002443	
C719	C-CERAMIC, CHIP 1.2 nF, 10 %, 50 V	2203-002687	
C630	C-CERAMIC, CHIP 1.8 pF, 0.25 pF, 50 V	2203-005050	
C409, C414	C-CERAMIC, CHIP 3.3 pF, 0.25 pF, 50 V	2203-005052	
C629, C624	C-CERAMIC, CHIP 3.3 pF, 0.25 pF, 50 V	2203-005052	
C627, C628	C-CERAMIC, CHIP 3.9 pF, 0.25 pF, 50 V	2203-005053	
C415	C-CERAMIC, CHIP 6.8 pF, 0.25 pF, 50 V	2203-005056	
C181, C185	C-CERAMIC, CHIP 100 nF, +80-20 %	2203-005061	
C186, C214	C-CERAMIC, CHIP 100 nF, +80-20 %	2203-005061	
C244, C249	C-CERAMIC, CHIP 100 nF, +80-20 %	2203-005061	
C406, C416	C-CERAMIC, CHIP 100 nF, +80-20 %	2203-005061	
C503, C507, C513	C-CERAMIC, CHIP 100 nF, +80-20 %	2203-005061	
C514, C517	C-CERAMIC, CHIP 100 nF, +80-20 %	2203-005061	
C518, C529	C-CERAMIC, CHIP 100 nF, +80-20 %	2203-005061	
C532, C157, C156	C-CERAMIC, CHIP 100 nF, +80-20 %	2203-005061	
C603, C153	C-CERAMIC, CHIP 100 nF, +80-20 %	2203-005061	
C154, C155	C-CERAMIC, CHIP 100 nF, +80-20 %	2203-005061	
C605, C408	C-CERAMIC, CHIP 100 nF, +80-20 %	2203-005061	
C250, C401, C634	C-CERAMIC, CHIP 1 uF, +80-20 %	2203-005065	
C407, C504, C515	C-CERAMIC, CHIP 1 uF, +80-20 %	2203-005065	
C170, C171	C-CERAMIC, CHIP 100 nF, 10 %	2203-005148	
C172, C173	C-CERAMIC, CHIP 100 nF, 10 %	2203-005148	

Location No.	Description	SEC Code	Remark
C174	C-CERAMIC, CHIP 100 nF, 10 %	2203-005148	
C509, C708	C-CERAMIC, CHIP 2.2 pF, 0.25 pF, 50 V	2203-005158	
C612	C-CERAMIC, CHIP 4.7 pF, 0.1 pF, 50 V	2203-005395	
C711	C-CERAMIC, CHIP 180 pF, 5 %, 25 V	2203-005503	
C404, C420, C726	C-TA, CHIP 10 uF, 20 %, 10 V	2404-001020	
C241	C-TA, CHIP 33 uF, 20 %, 6.3 V	2404-001032	
C182, C213, C426	C-TA, CHIP 10 uF, 20 %, 6.3 V, GP, TP, 2012, -	2404-001064	
C245, C248	C-TA, CHIP 220 uF, 20 %, 6.3 V, LZ, TP, 7125, -	2404-001083	
C775, C183	C-TA, CHIP 33 uF, 20 %, 6.3 V, GP, TP, 3719, -	2404-001100	
C247	C-TA, CHIP 100 uF, 20 %, 16 V, LZ, TP, 7132	2404-001107	
L241	INDUCTOR-SMD 10 uH, 10 %	2703-000001	
L504, L506	INDUCTOR-SMD 1 mH, 20 %	2703-000153	
L242	INDUCTOR-SMD 22 uH, 10 %	2703-000172	
L606	INDUCTOR-SMD 18 nH, 5 %	2703-001028	
L605	INDUCTOR-SMD 180 nH, 5 %	2703-001043	
L604	INDUCTOR-SMD 2.7 uH, 10 %	2703-001047	
L602	INDUCTOR-SMD 8.2 nH, 0.5 nH	2703-001063	
L609	INDUCTOR-SMD 8.8 nH, 2 %	2703-001078	
L501, L507	INDUCTOR-SMD 220 nH, 5 %	2703-001079	
L707	INDUCTOR-SMD 1.2 nH, 0.3 nH	2703-001204	
L705	INDUCTOR-SMD 3.3 nH, 0.3 nH	2703-001258	
L503, L505	INDUCTOR-SMD 680 uH, 20 %	2703-001417	
L709	INDUCTOR-SMD 100 nH, 5 %	2703-001513	
L704	INDUCTOR-SMD 33 nH, 5 %	2703-001543	
L706	INDUCTOR-SMD 47 nH, 5 %	2703-001545	
L607, L608, L610	INDUCTOR-SMD 120 nH, 5 %	2703-001546	
L710, L708	INDUCTOR-SMD 10 nH, 5 %	2703-001547	
L502	INDUCTOR-SMD 82 nH, 5 %	2703-001685	
L711	INDUCTOR-SMD 5.6 nH, 0.3 nH	2703-001748	
X101	CRYSTAL-UNIT 32.768 kHz, 20 ppm	2801-003602	
X401	CRYSTAL-SMD 13 MHz, 10 ppm, 28-ACF	2801-003603	
F501	FILTER-CERAMIC IF, 13.0 MHz	2903-001002	
F701, F702	FILTER-SAW 890-915 MHz	2904-001003	
F703	FILTER-SAW 947.5 MHz, 25 MHz	2904-001042	
U502	FILTER-SAW 83 MHz, 160KHz, -, TP, 10dB, -	2904-001078	
U707	FILTER-DUPLEXER 947 MHz, 902 MHz	2909-001059	
RDS161	SWITCH-REED 200 V, 0.5A, -, -	3409-001002	

Location No.	Description	SEC Code	Remark
J181	CONNECTOR-CARD EDGE 6P, 2.54 mm		
J151	CONNECTOR-SOCKET 18P, 1R, 0.5 mm	3710-001309	
J221	CONNECTOR-SOCKET 80P, 2R, 0.5 mm	3710-001312	
BAT201	BATTERY-POLYMER 3.3 V, 0.065 mAH	4302-001026	
U706	COUPLER-DIRECTION 902.5+-12.5 MHz	4709-001008	
U607	RF-MOLULE 900+-100 MHz, 50 ohm	4709-001063	
J161	DISPLAY LCD- CHINA SGH-500	GH07-00003A	
SEMI-CABLE	CBF SIGNAL- SGH-500, COAXIAL	GH39-20017A	
PCB- MAIN	PCB- MAIN C C, EPOXY	GH41-00008A	
METALDOM	UNIT-KEY ARRAY, YOU07d	GH59-10168A	
SHIELD SPONGE	GASKET-SGH-500, POLYURETHANE	GH63-20056A	
SHIELD SPONGE	GASKET-SGH-500, POLYURETHANE	GH63-20058A	
BACKUP-TAPE	MCT-BACKUP TAPE SGH-600, TAPE	GH74-40518A	
SHIELD SPONGE	GASKET- SGH-500, POLYURETHANE	GH63-00001A	
SHIELD SPONGE	GASKET- SGH-500, POLYURETHANE	GH63-20057A	
SHIELD SPONGE	GASKET- SGH-500, POLYURETHANE	GH63-20059A	
SHIELD SPONGE	GASKET- SGH-500, POLYURETHANE	GH63-20060A	
-	MIC-CONDENSOR 2 V, 130 uA, 48 dB	3003-001026	
-	RMO-MIC ADAPTOR SPH-5000, RUBBER	GH73-40657A	

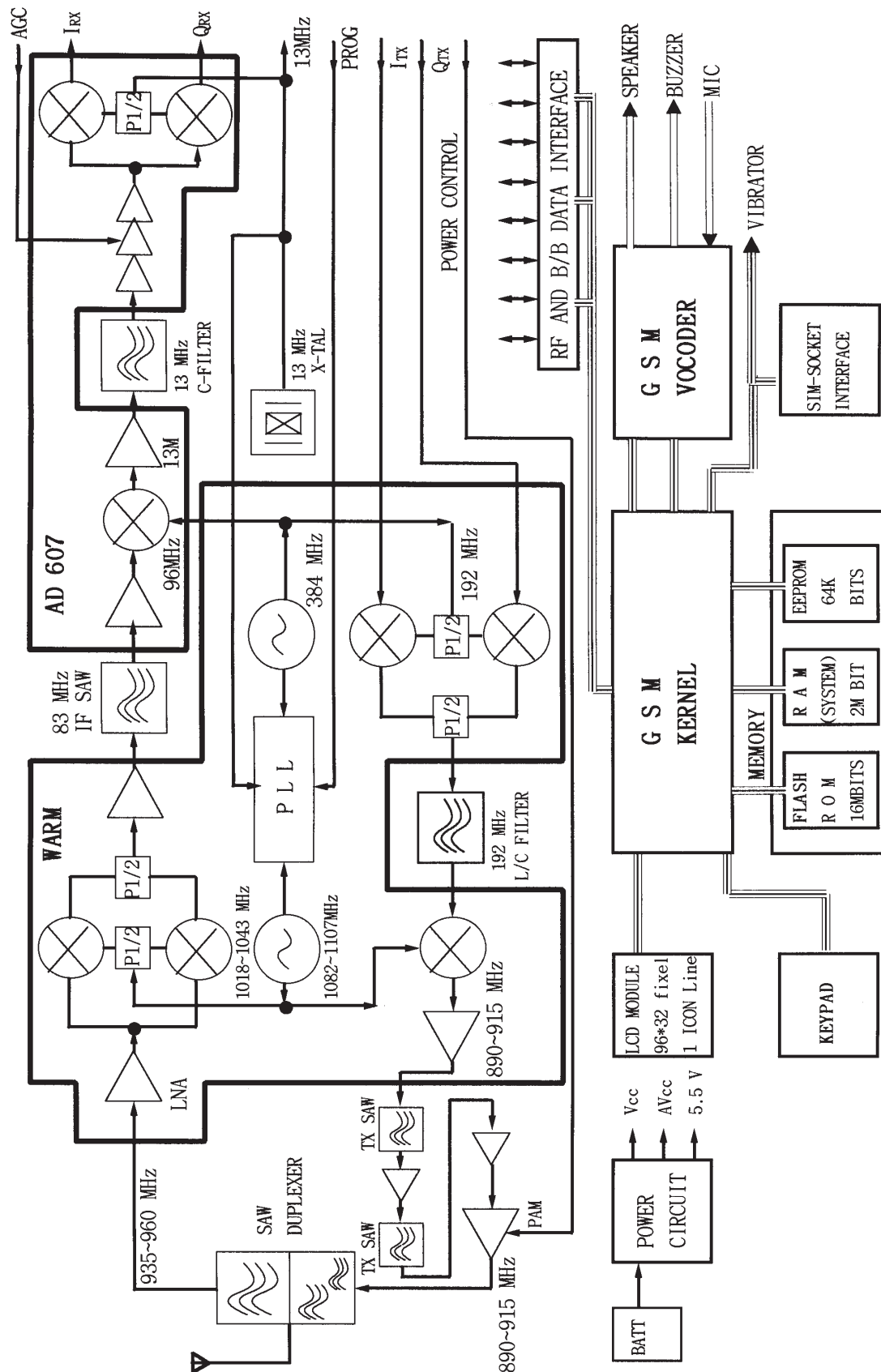
2-3 Memory Parts List

Location No.	Description	SEC Code	Remark
-	PRA AUTO SMD- SGH-500, SEUK	GH94-00854A	
D302	DIODE-TVS SM05, 6V/1 mA, 300, SOT-23	0406-001005	
D101	DIODE-ARRAY DAN202U, 80 V, 100 mA	0407-000115	
Q101	TR-SMALL SIGNAL 2SC4081, NPN, 200 mW	0501-000218	
Q102	TR-SMALL SIGNAL MMBT2222A, NPN	0501-000457	
U303	TR-ARRAY UMD3N, NPN/PNP, 2, 300 mW	0506-001003	
U195	IC-CMOS LOGIC TC7W32FU, OR GATE	0801-002339	
U194	IC-CMOS LOGIC 7S04FU, INVERTER	0801-002345	
U103	IC-EEPROM 24645, 8192x8BIT, SOP	1103-001084	
U192	IC-SRAM 68V2000, 256Kx8BIT	1106-001130	
U191, U193	IC-FLASH MEMORY 29LV800, 1Mx8BIT	1107-001062	
U302	IC-AUDIO AMP 34119, SOP, 8P, 150 MIL	1201-000105	
U102	IC-RESET 809, SOP, 3P, -, PLASTIC	1203-000392	
U202, U203	IC-VOLTAGE REGULATOR 1015, SOT-23A-5	1203-001592	
U101	IC-COMM. CONTROLLER VP40524A2	1205-001327	
U301	IC-CODEC VP40506B4, QFP, 80P	1205-001328	
R144	THERMISTOR-NTC 15 kohm, 5 %	1404-001103	
R113, R114	R-CHIP 100 ohm, 5 %, 1/16 W	2007-000138	
R115, R116	R-CHIP 100 ohm, 5 %, 1/16 W	2007-000138	
R117, R125	R-CHIP 100 ohm, 5 %, 1/16 W	2007-000138	
R126, R306	R-CHIP 100 ohm, 5 %, 1/16 W	2007-000138	
R307	R-CHIP 100 ohm, 5 %, 1/16 W	2007-000138	
R304, R305, R315	R-CHIP 1 kohm, 5 %, 1/16 W	2007-000140	
R101, R102	R-CHIP 2.2 kohm, 5 %, 1/16 W	2007-000141	
R103, R104	R-CHIP 2.2 kohm, 5 %, 1/16 W	2007-000141	
R141, R320	R-CHIP 10 kohm, 5 %, 1/16 W	2007-000148	
R193	R-CHIP 10 kohm, 5 %, 1/16 W	2007-000148	
R301, R308	R-CHIP 10 kohm, 5 %, 1/16 W	2007-000148	
R309, R310	R-CHIP 10 kohm, 5 %, 1/16 W	2007-000148	
R316	R-CHIP 10 kohm, 5 %, 1/16 W	2007-000148	
R140, R122	R-CHIP 15 kohm, 5 %, 1/16 W	2007-000151	
C132, R143	R-CHIP 15 kohm, 5 %, 1/16 W	2007-000151	
R133	R-CHIP 22 kohm, 5 %, 1/16 W	2007-000153	
R105, R120	R-CHIP 47 kohm, 5 %, 1/16 W	2007-000157	
R121	R-CHIP 47 kohm, 5 %, 1/16 W	2007-000157	
R106, R111	R-CHIP 100 kohm, 5 %, 1/16 W	2007-000162	

Location No.	Description	SEC Code	Remark
R112, R119	R-CHIP 100 kohm, 5 %, 1/16 W	2007-000162	
R130, R131	R-CHIP 100 kohm, 5 %, 1/16 W	2007-000162	
R132, R134	R-CHIP 100 kohm, 5 %, 1/16 W	2007-000162	
R191, R192, R321	R-CHIP 100 kohm, 5 %, 1/16 W	2007-000162	
R322, R324, R142	R-CHIP 0 ohm, 5 %, 1/16 W	2007-000171	
R311, R314	R-CHIP 10 ohm, 5 %, 1/16 W	2007-000172	
R318, R319	R-CHIP 10 ohm, 5 %, 1/16 W	2007-000172	
R312, R313	R-CHIP 22 ohm, 5 %, 1/16 W	2007-000173	
R208, R210	R-CHIP 1.2 kohm, 1 %, 1/16 W, DA, TP, 1608	2007-000219	
R109	R-CHIP 33 kohm, 1 %, 1/16 W, DA, TP, 1608	2007-000772	
R110	R-CHIP 39 kohm, 1 %, 1/16 W, DA, TP, 1608	2007-000828	
R123, R124	R-CHIP 5.6 kohm, 5 %, 1/16 W	2007-000982	
R205, R207	R-CHIP 330 ohm, 5 %, 1/16 W	2007-001313	
R302, R303	R-CHIP 330 ohm, 5 %, 1/16 W	2007-001313	
R107	R-CHIP 9.1 kohm, 5 %, 1/16 W	2007-007013	
R317	R-CHIP 51 kohm, 5 %, 1/16 W	2007-007014	
R209, R129	R-CHIP 10 kohm, 1 %, 1/16 W	2007-007142	
C109, C115	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C116, C117	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C118, C119	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C120, C121	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C122, C123	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C124, C126	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C127, C128	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C129, C313	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C314	C-CERAMIC, CHIP 100 pF, 5 %, 50 V	2203-000233	
C315, C316	C-CERAMIC, CHIP 10 nF, 10 %, 16 V	2203-000254	
C326, C194	C-CERAMIC, CHIP 10 nF, 10 %, 16 V	2203-000254	
C130, C131	C-CERAMIC, CHIP 10 nF, 10 %, 16 V	2203-000254	
C309, C310, C312	C-CERAMIC, CHIP 1 nF, 10 %, 50 V	2203-000438	
C327	C-CERAMIC, CHIP 1 nF, 10 %, 50 V	2203-000438	
C207, C210, C323	C-CERAMIC, CHIP 470 pF, 10 %, 50 V	2203-000940	
C322, C324, C325	C-CERAMIC, CHIP 220 nF, +80-20 %, 16 V	2203-001402	
C317, C318	C-CERAMIC, CHIP 47 nF, 10 %, 16 V	2203-001432	
C319, C321	C-CERAMIC, CHIP 47 nF, 10 %, 16 V	2203-001432	
C101, C205	C-CERAMIC, CHIP 2.2 uF, +80-20 %, 16 V	2203-001598	
C307, C311	C-CERAMIC, CHIP 150 nF, +80-20 %, 16 V	2203-005015	

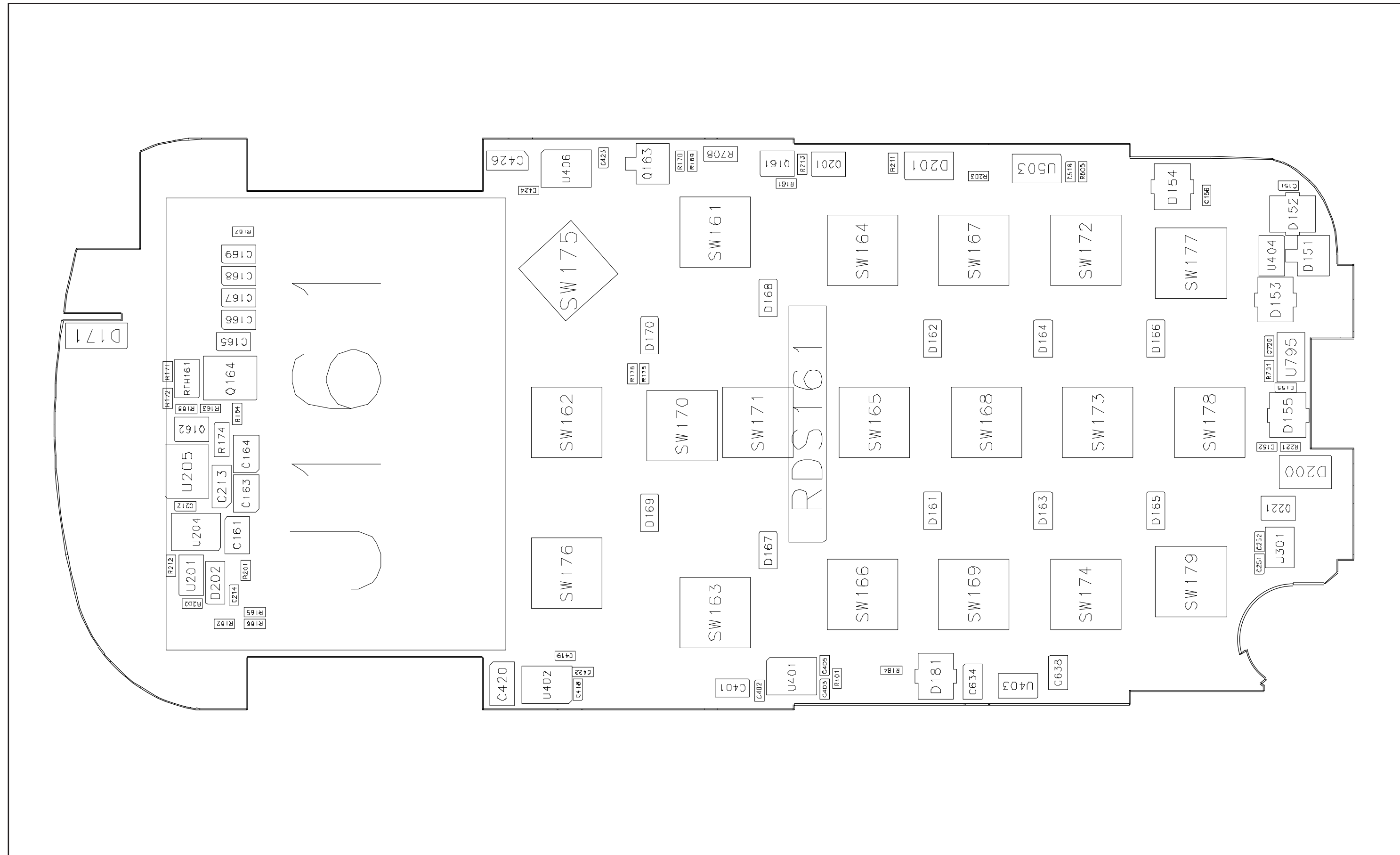
Location No.	Description	SEC Code	Remark
C102, C103	C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V	2203-005061	
C104, C105	C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V	2203-005061	
C108, C112	C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V	2203-005061	
C113, C191	C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V	2203-005061	
C192, C193	C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V	2203-005061	
C201, C202	C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V	2203-005061	
C203, C204	C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V	2203-005061	
C206, C301	C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V	2203-005061	
C302, C303	C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V	2203-005061	
C304, C305	C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V	2203-005061	
C306	C-CERAMIC, CHIP 100 nF, +80-20 %, 16 V	2203-005061	
C114	C-CERAMIC, CHIP 1uF, +80-20 %, 10 V	2203-005065	
C308	C-TA, CHIP 33uF, 20 %, 6.3 V, GP, TP, 3528, -	2404-001032	
C208, C211	C-TA, CHIP 10uF, 20 %, 6.3 V, GP, TP, 2012, -	2404-001064	
J303	BUZZER-MAGNETIC 87DB, 3.6 V, 95 mA	3002-001070	
J102, J302	CONNECTOR-SOCKET 2P, 1R, 1.27 mm	3710-001105	
J101	CONNECTOR-HEADER NOWALL, 80P	3711-003826	
PCB	PCB-B/B B/B, EPOXY, 6L, T0.8, 138*11	GH41-10633A	

3. Block Diagrams

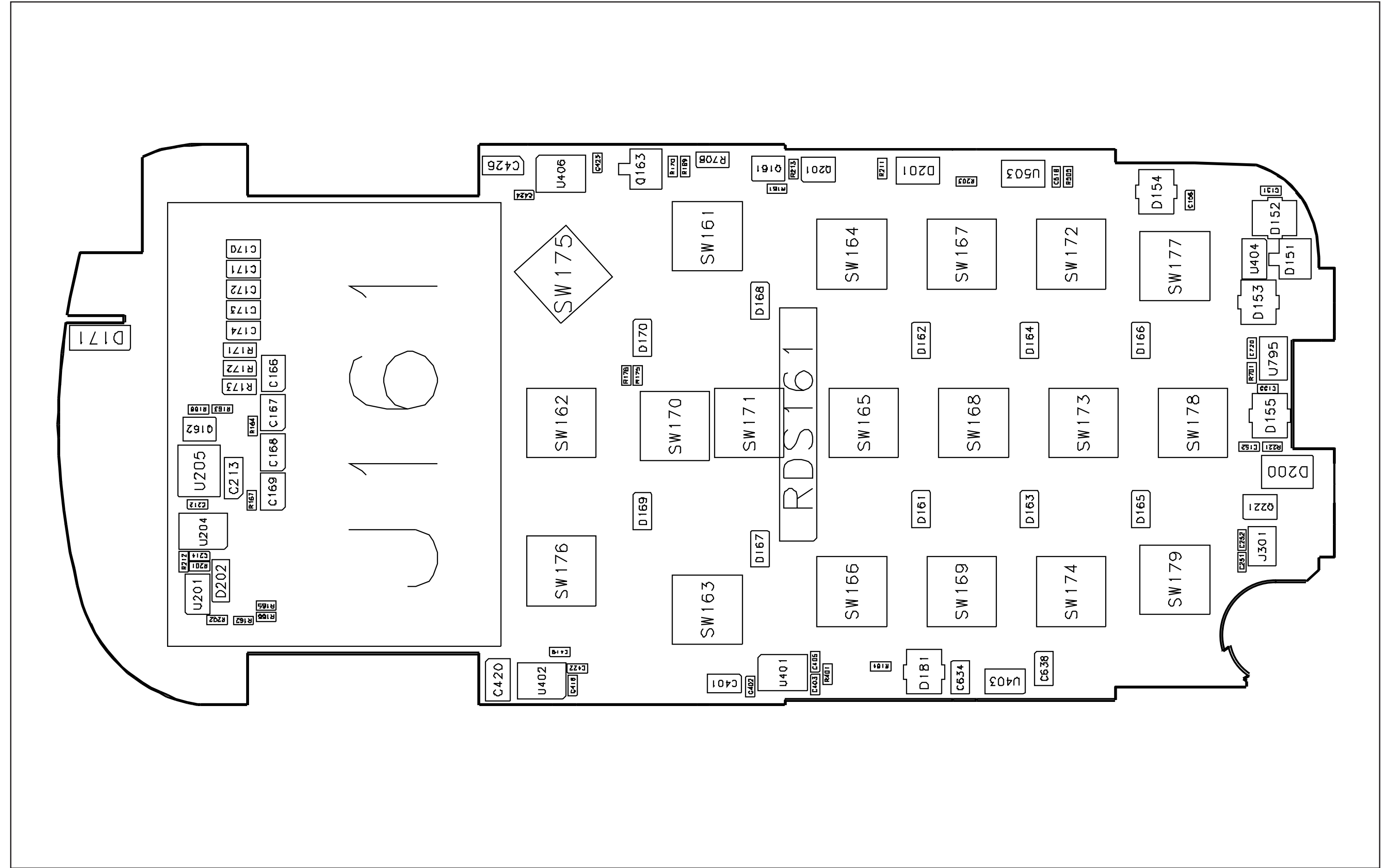


4. PCB Diagrams

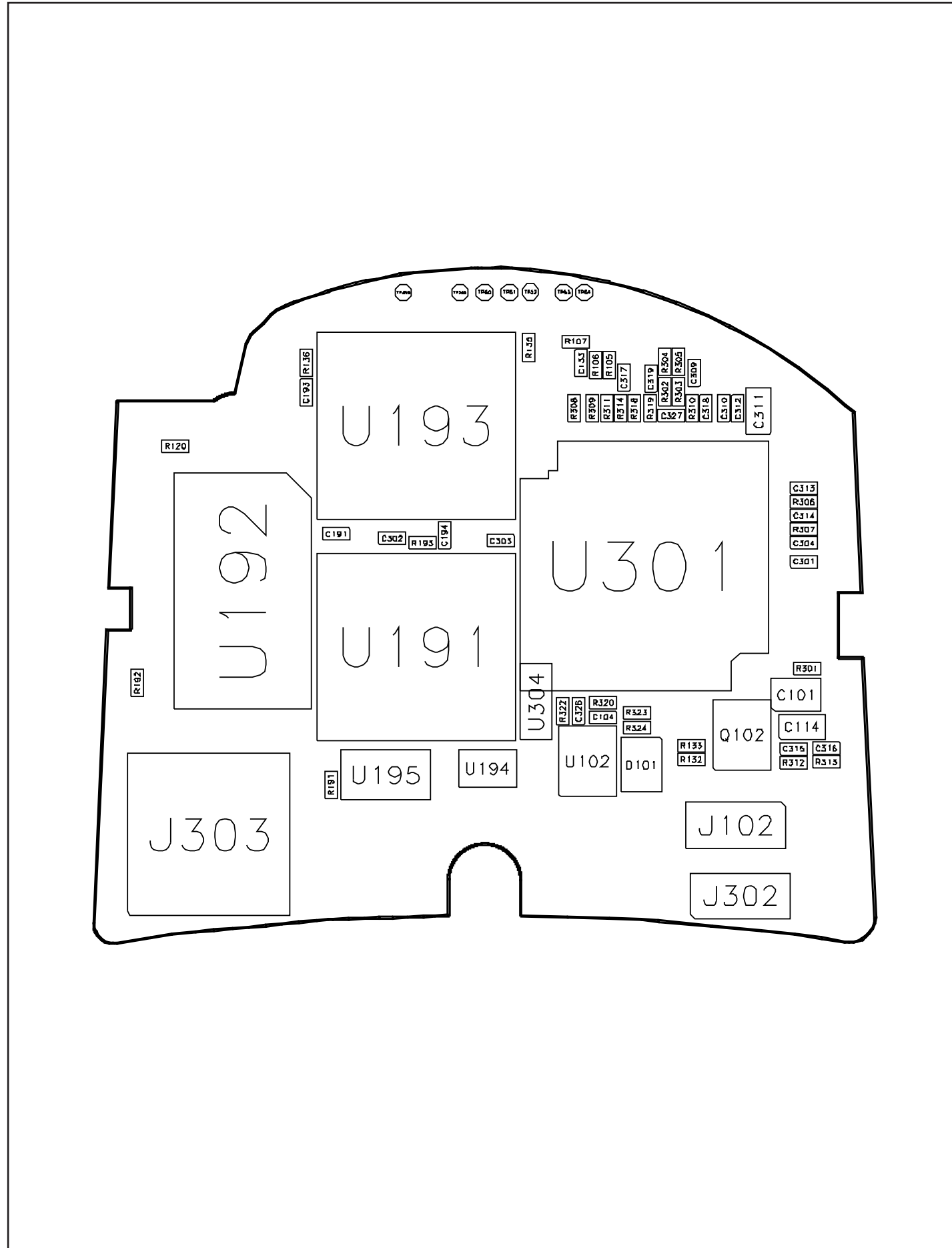
4-1 Main PCB Top Diagram (Europe)



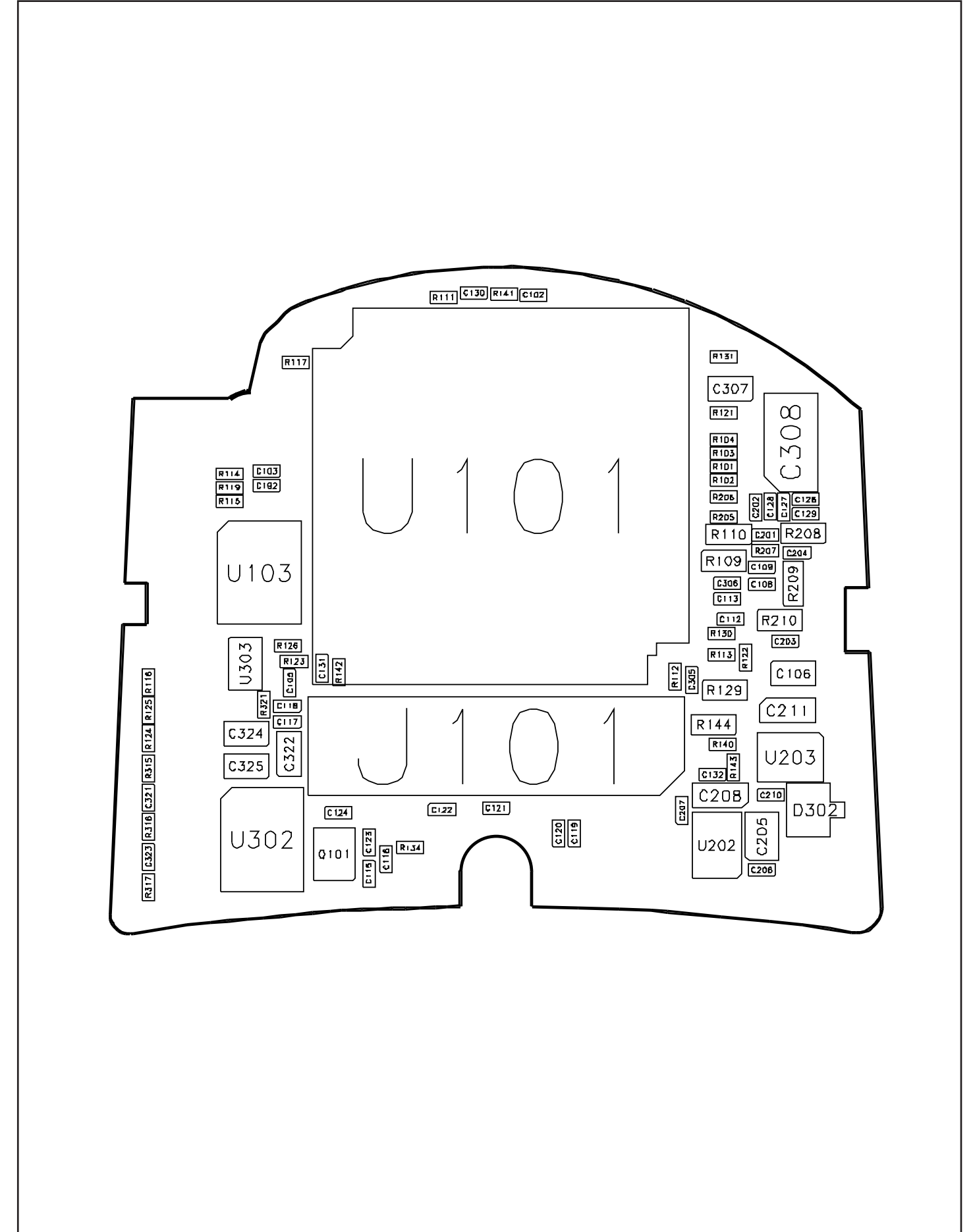
4-2 Main PCB Top Diagram (China)



4-4 Memory PCB Top Diagram

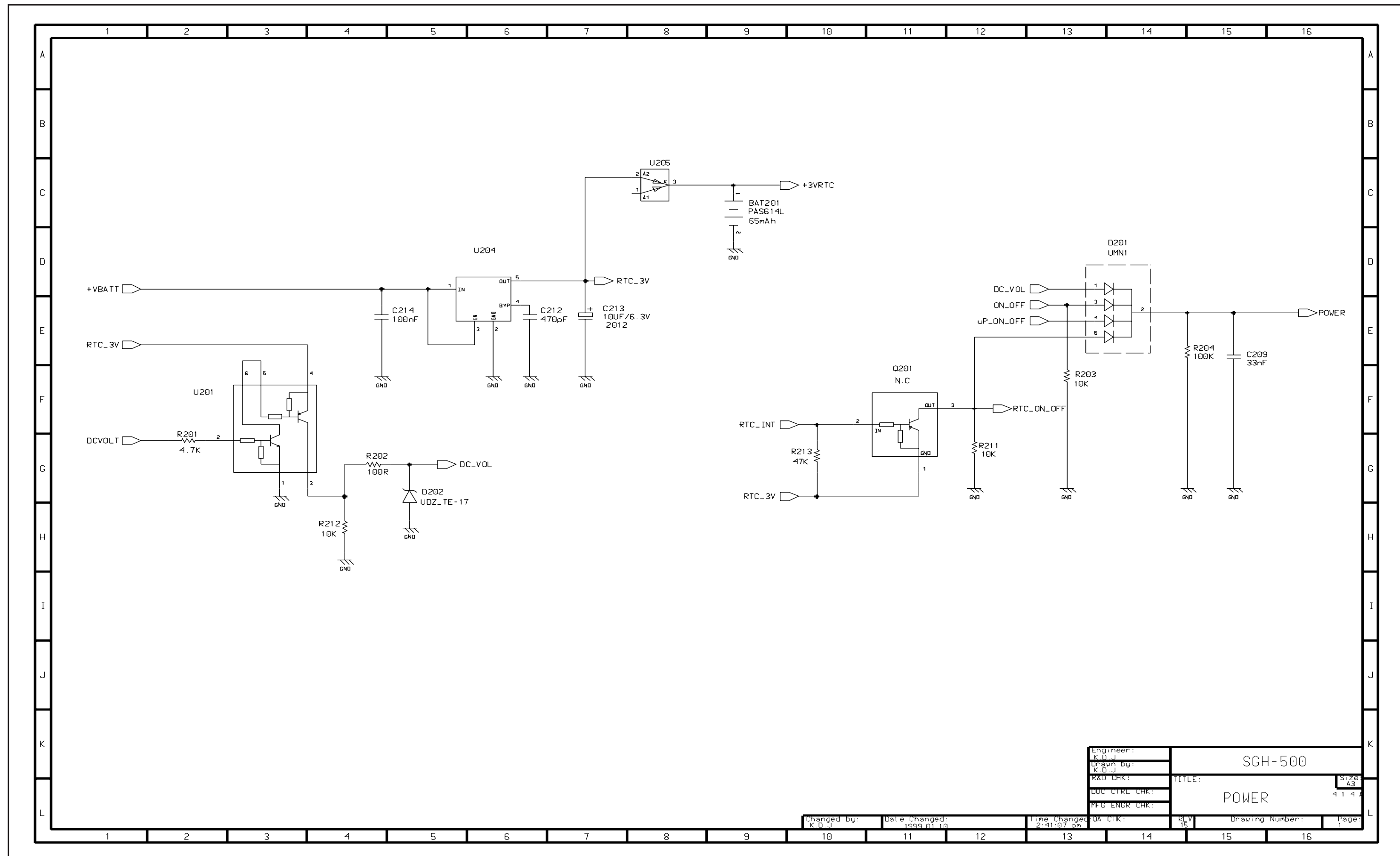


4-5 Memory PCB Bottom Diagram

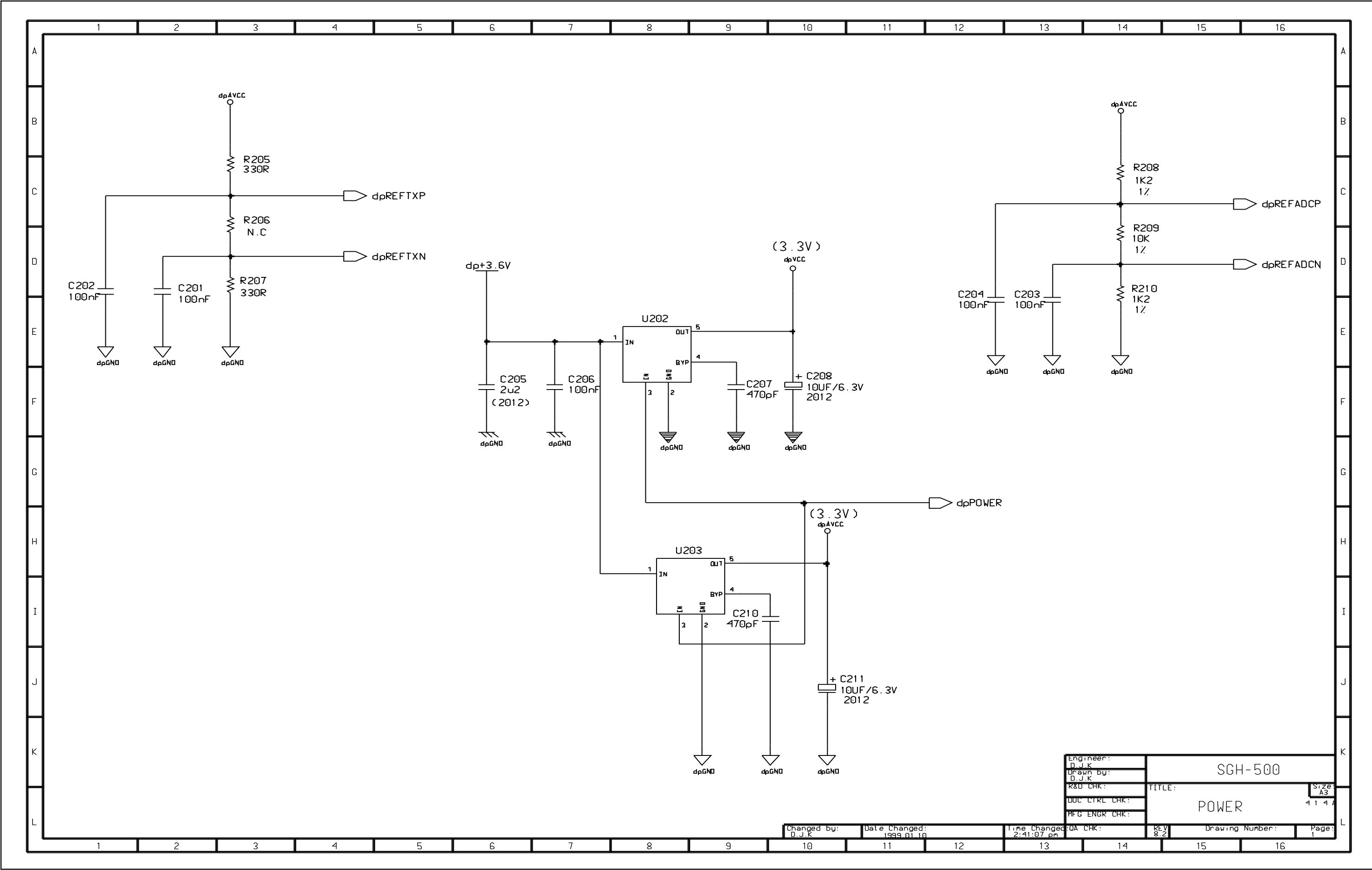


5. Schematic Diagrams

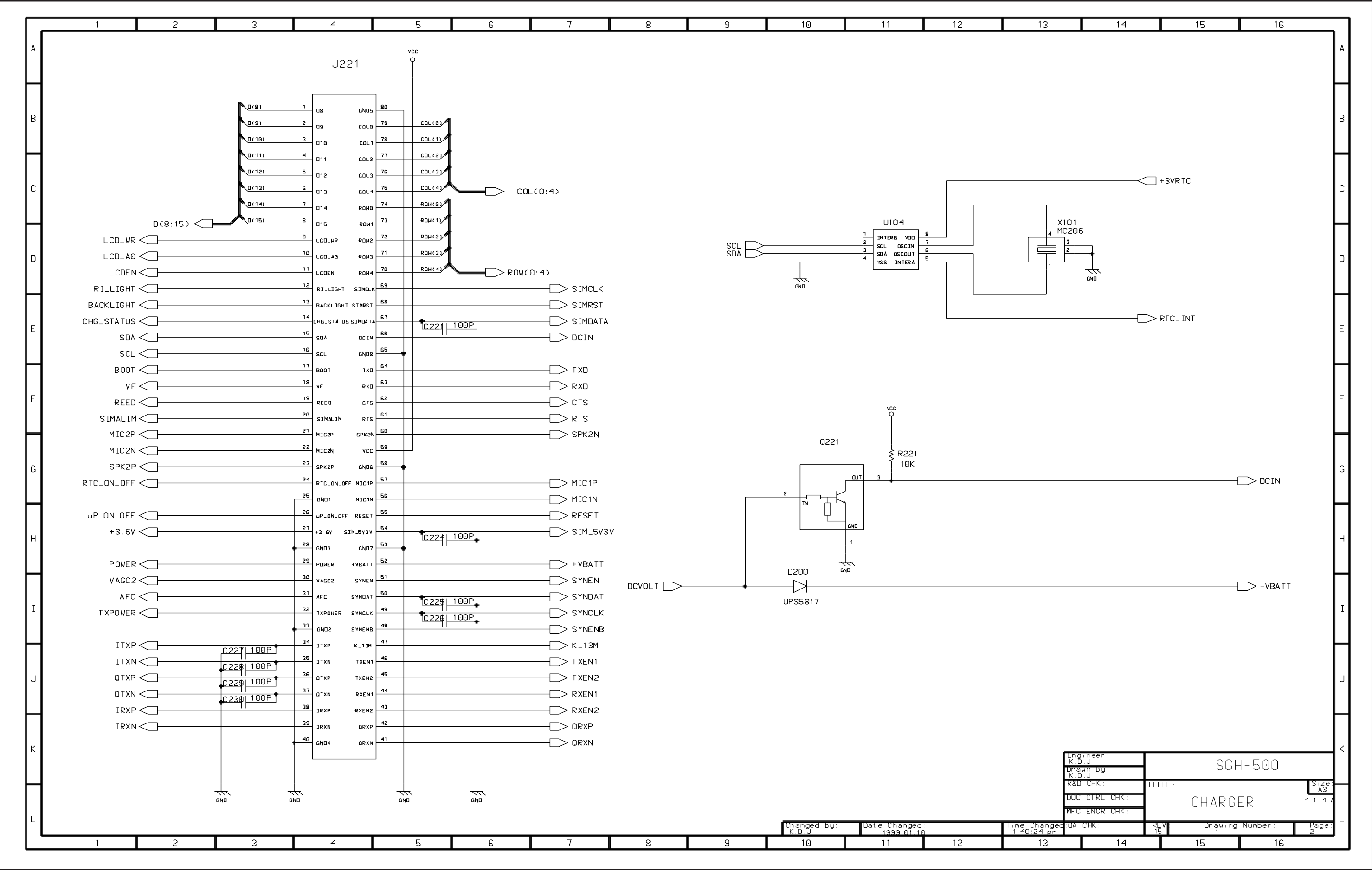
5-1 Main Power



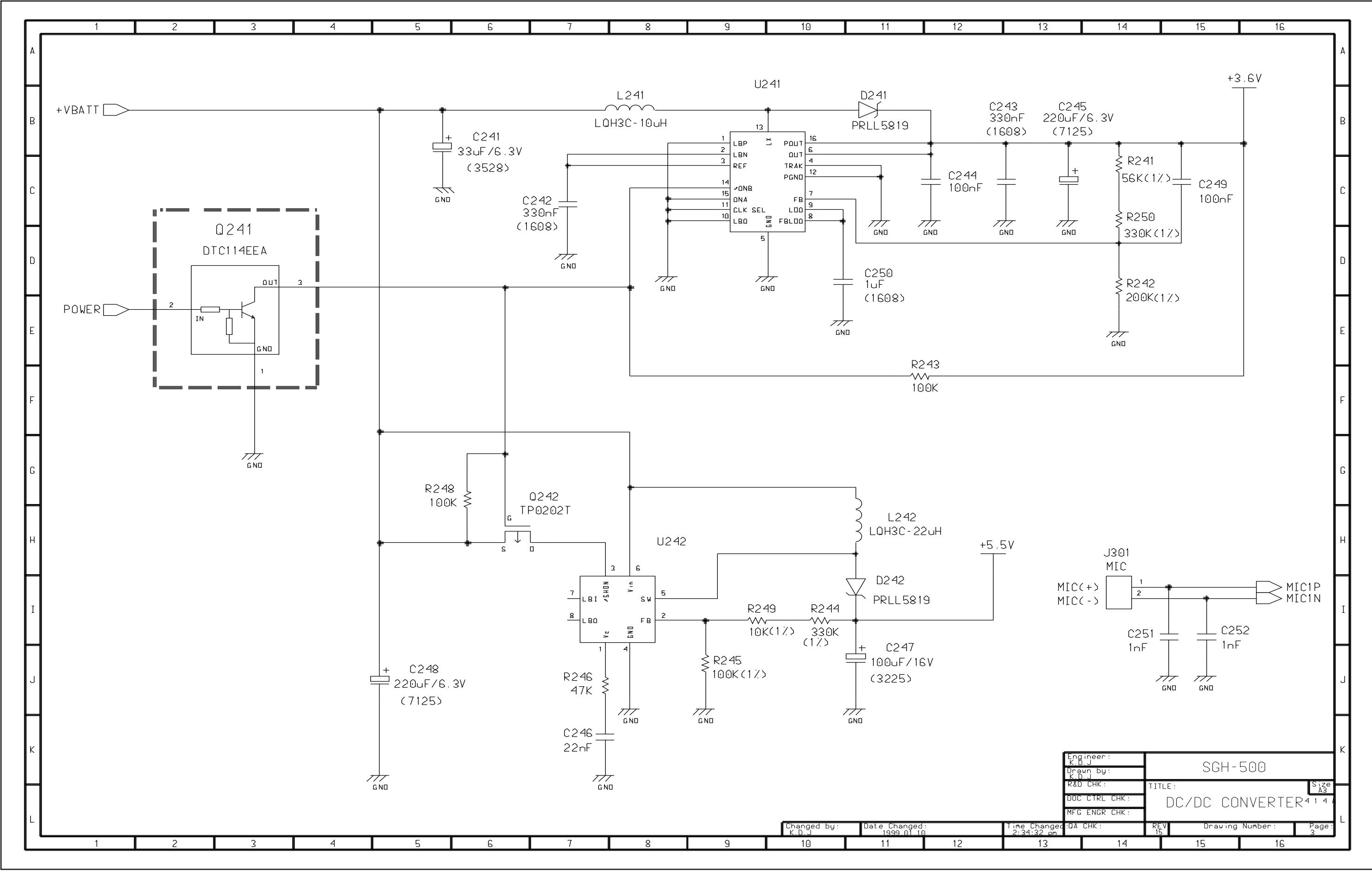
5-2 Memory Power



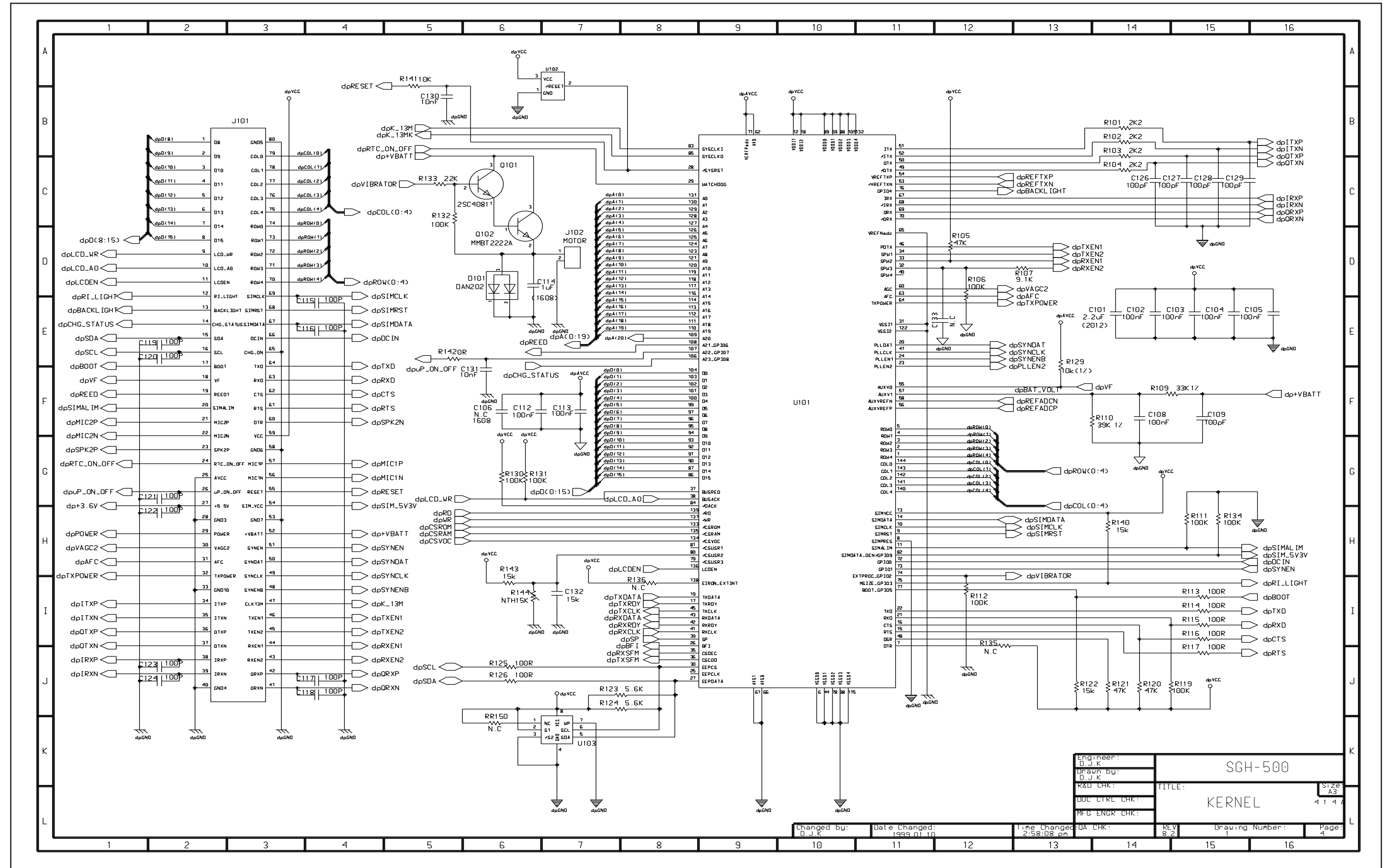
5-3 Charger

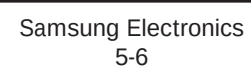


5-4 DC/DC Converter

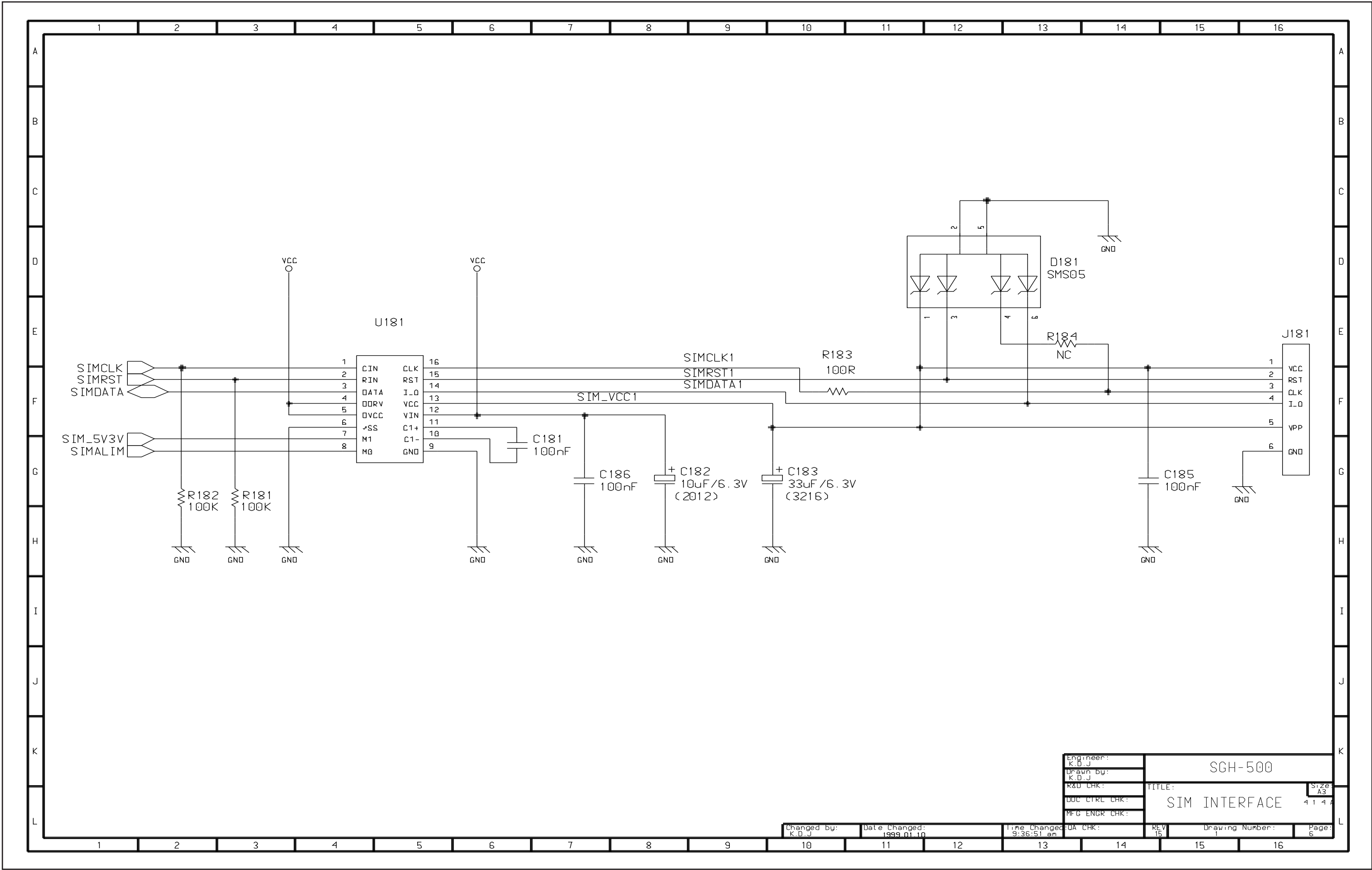


5-5 Memory Kernel

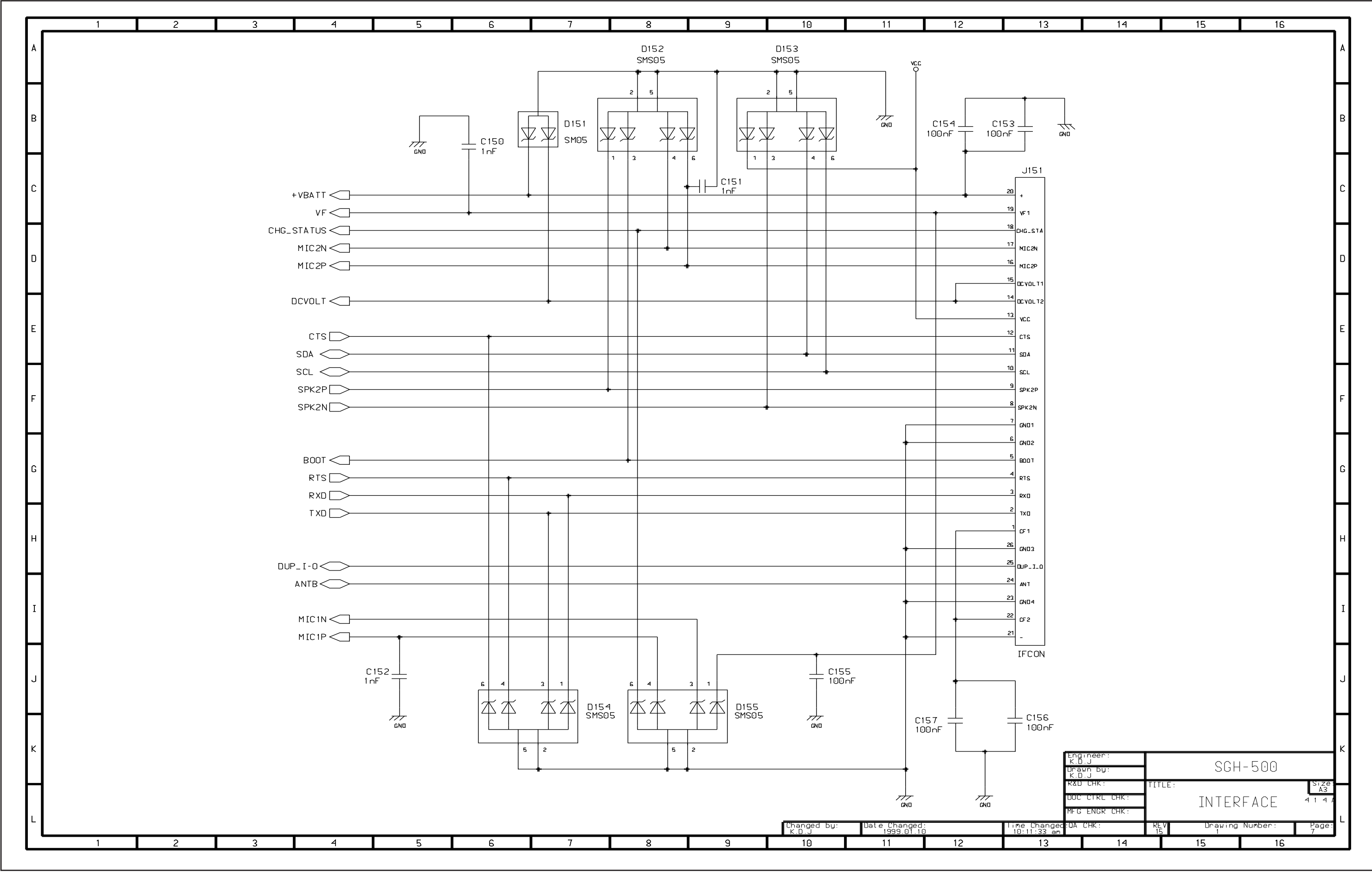




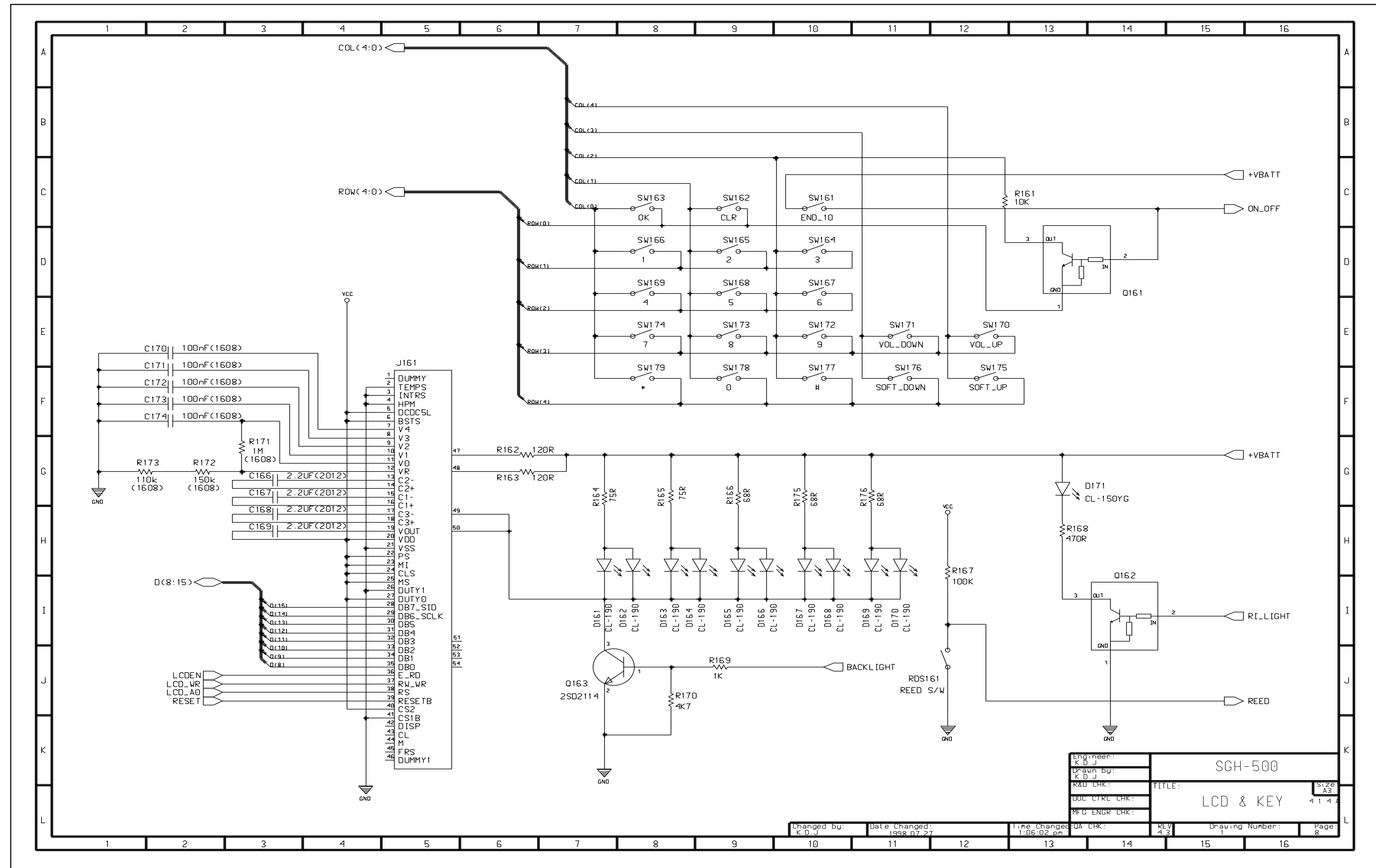
5-7 SIM Interface



5-8 Interface

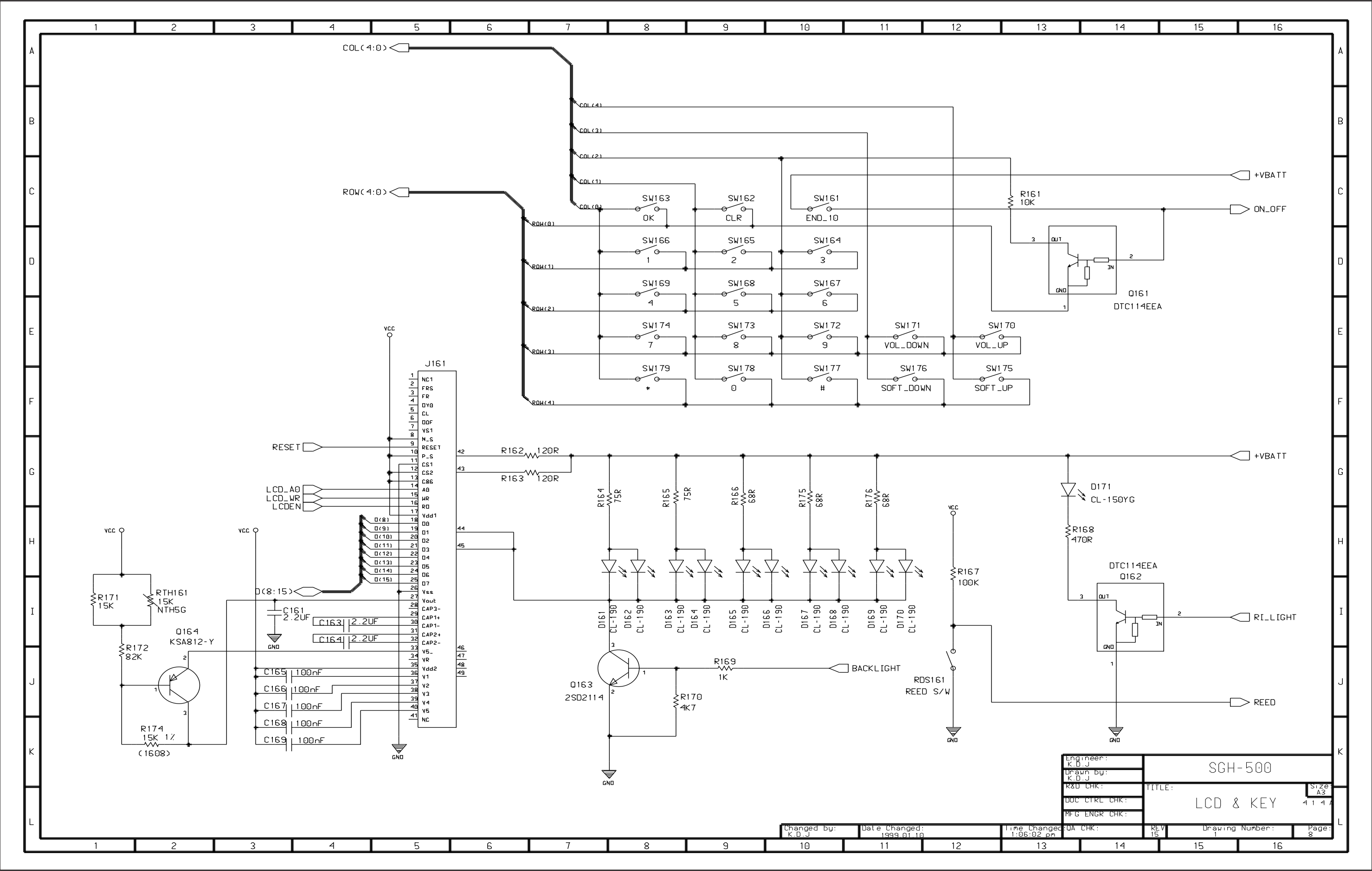


5-9 LCD & Key (China)

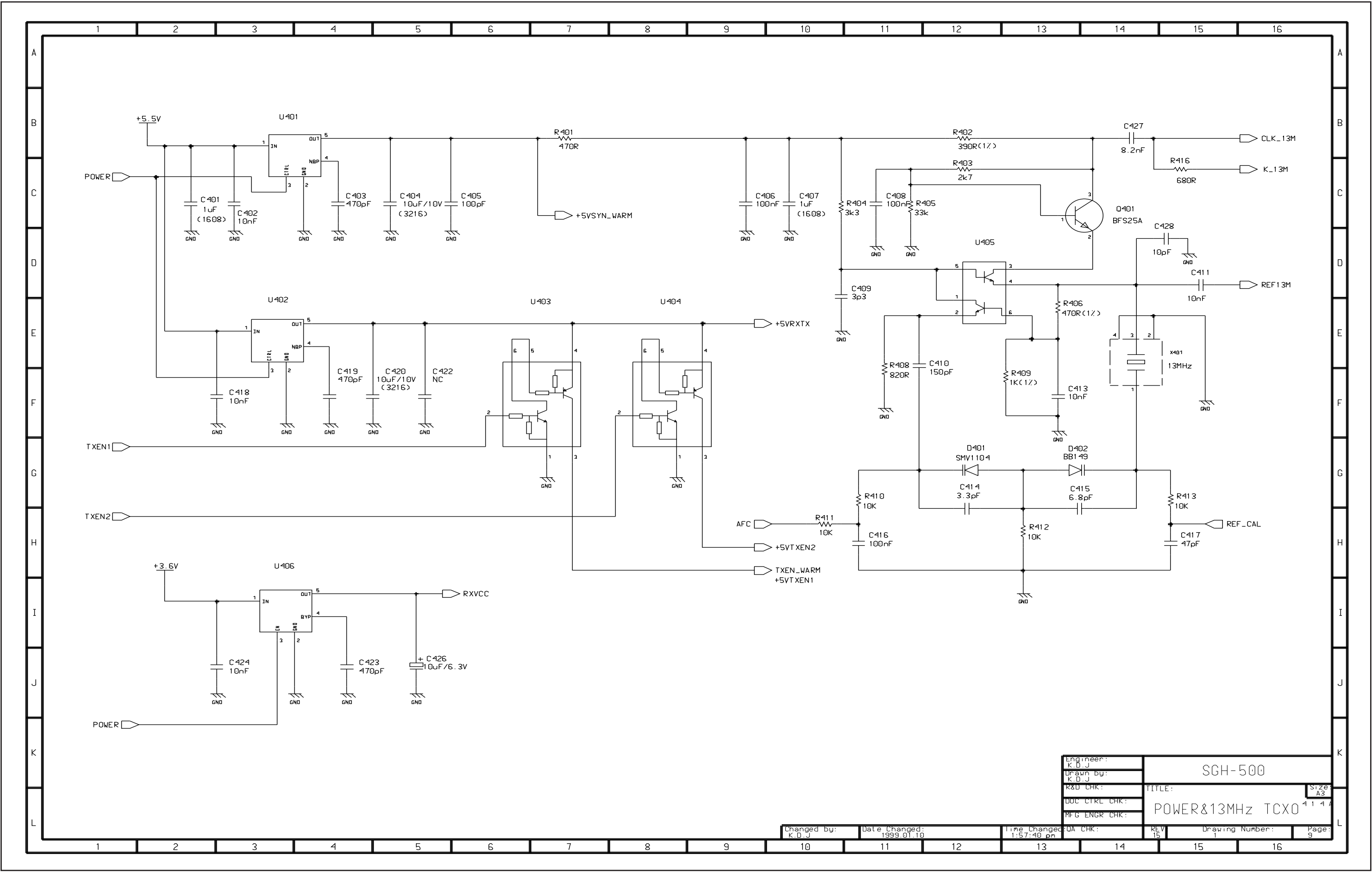


Engineer:	K.D.J.	SGH-500	Size: A3
Drawn By:	K.D.J.		
R&D CHK:			
DOC CTRL CHK:			
MFG ENGR CHK:			
REV	4.3	LCD & KEY	4 1 4 A
Changd by:	K.D.J.		
Date Changed:	1998.07.27		
Time Changed:	1:06:02 pm		
Rev:	4.3		
Drawing Number:	1		
Page:	8		

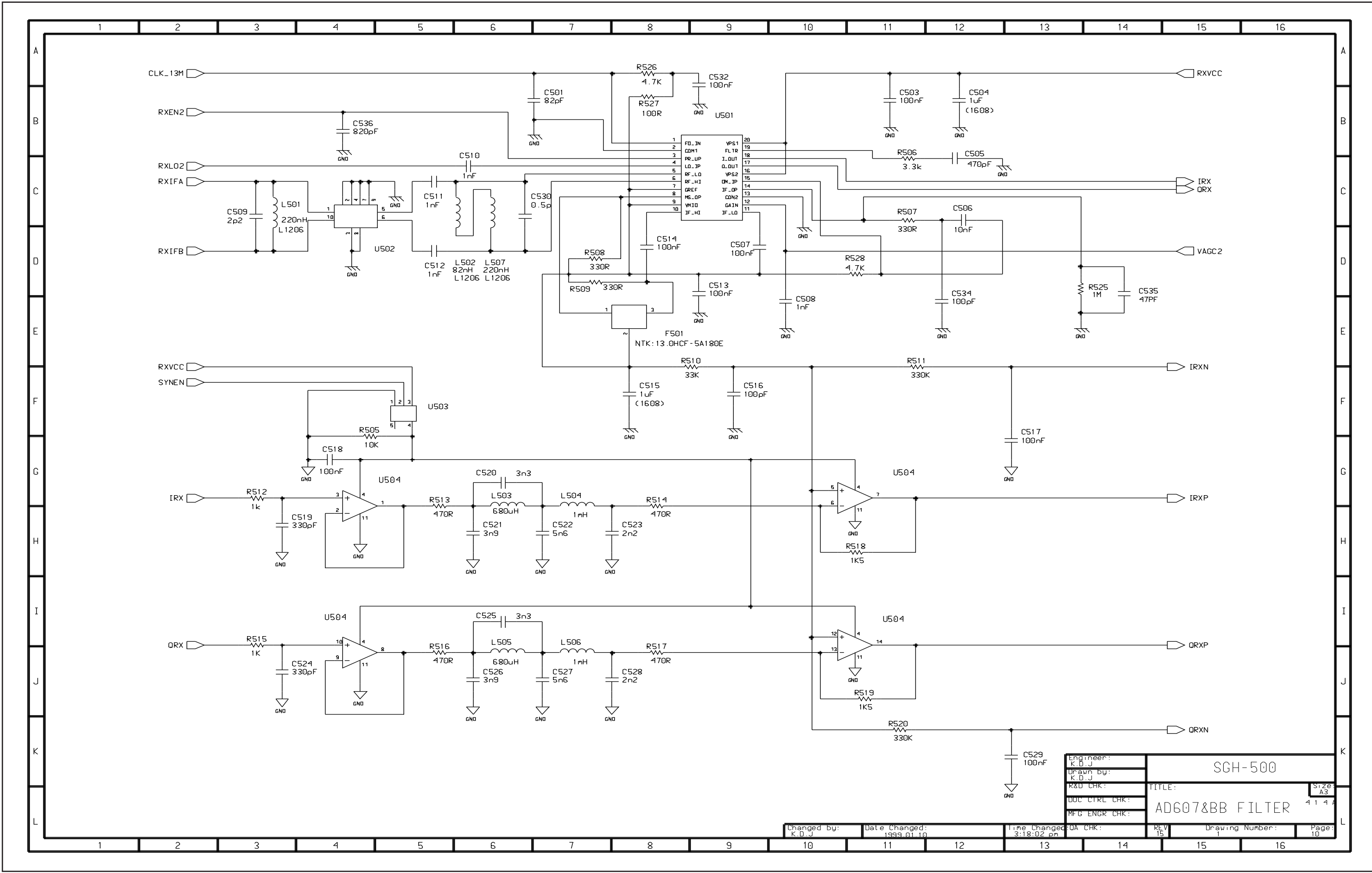
5-10 LCD & Key (Europe)



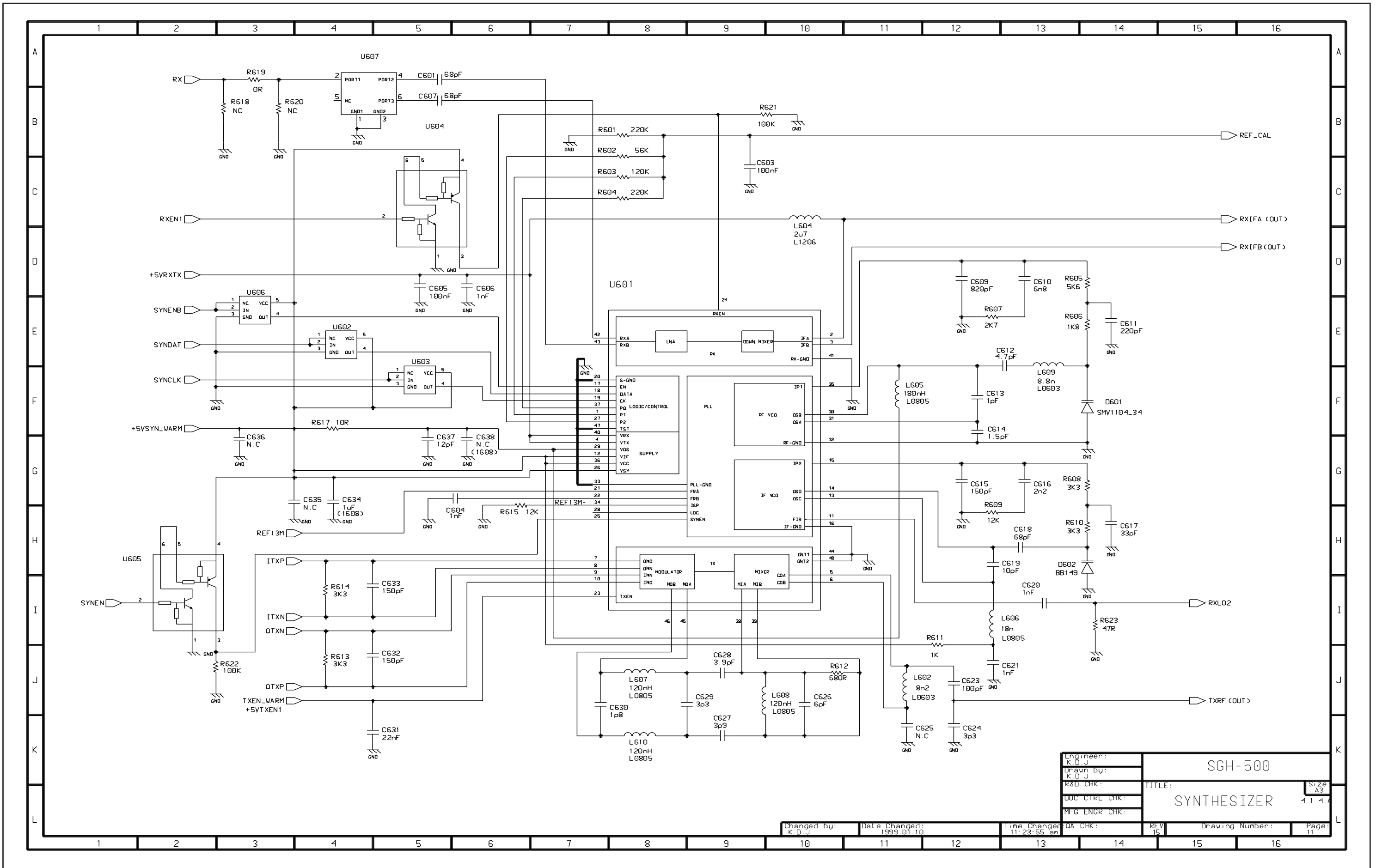
5-11 Power & 13 MHz TCXO



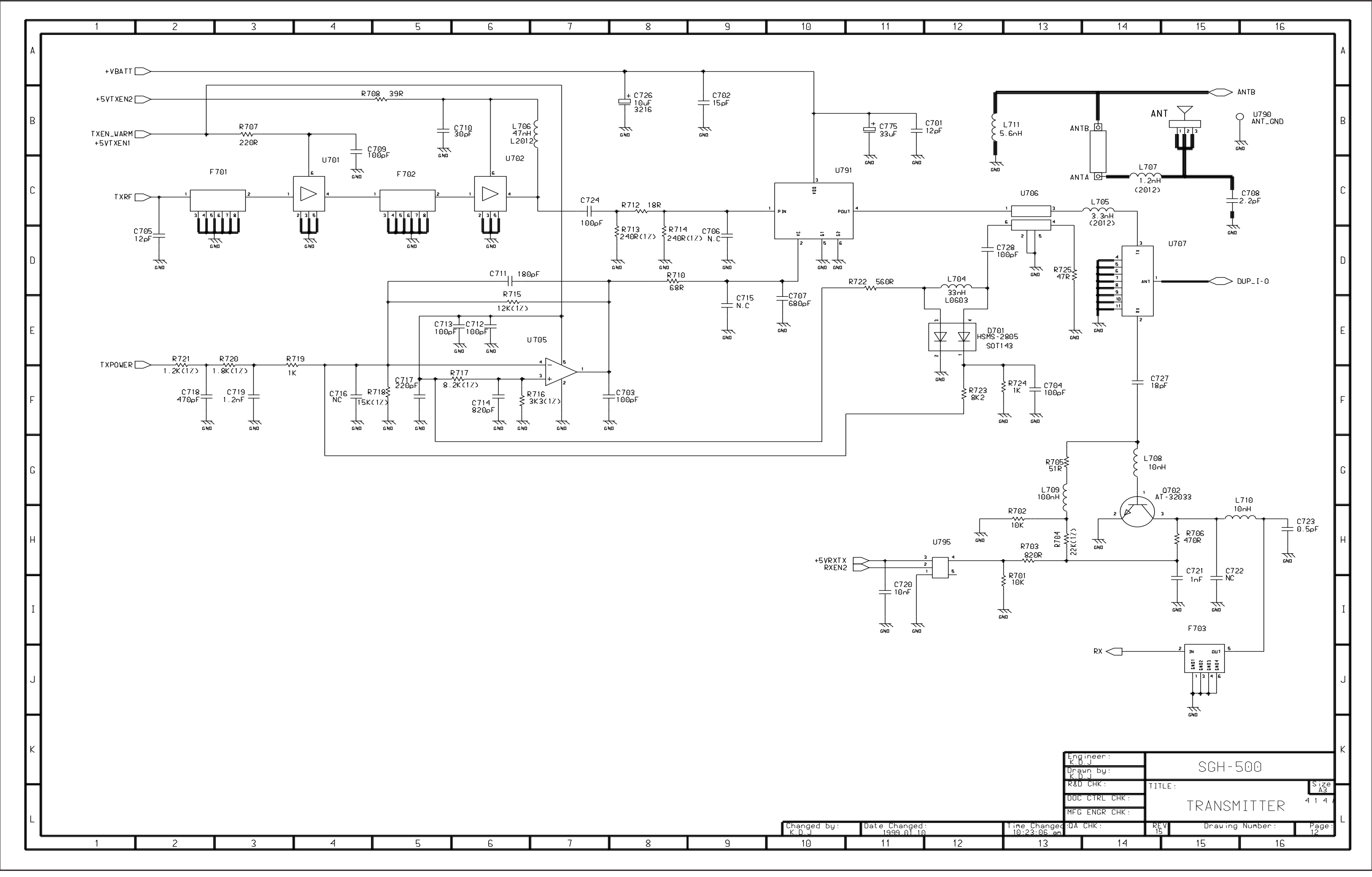
5-12 AD607 & BB Filter



5-13 Synthesizer



5-14 Transmitter



Engineer:	SGH-500		
Drawn by:	K.D.J.		
R&D CHK:	TITLE:	Size:	A3
DOC CTRL CHK:	TRANSMITTER	4	1
MFG ENGR CHK:	REV:	Drawing Number:	Page:
	15		12

Changed by: K.D.J. Date Changed: 1999-01-10 Time Changed: 10:23:06 am

5-15 Memory

