



GPRS GSM TELEPHONE SGH-Q105

SERVICE *Manual*

GPRS GSM TELEPHONE



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1. SGH-Q105 MAIN Electrical Parts List

Level	SEC Code	Design LOC	DESCRIPTIONS
0	GH92-00976A	-	PBA MAIN-SGHQ105;SGH-Q105, LA, US A, -, -, -, -, -
1	3002-001103	AU501	BUZZER-MAGNETIC;93dB, 3.6 V, 90 m A, 2, 550Hz, BK
1	2404-001134	C1001, C1002, C1003	C-T A, CHIP;100 uF, 20 %, 6.3 V, LZ, TP, 4028
1	2203-001239	C1005, C1015, C1023	C-CERAMIC, CHIP;0.082 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-000696	C1006, C1016, C1020	C-CERAMIC, CHIP;0.002 nF, 0.25 pF, 50 V, NP0, TP, 1005
1	2203-000254	C1008, C1009, C1019	C-CERAMIC, CHIP;10 nF, 10 %, 16 V, X7R, TP, 1005, -
1	2203-005571	C101, C103, C105, C112	C-CERAMIC, CHIP;10000 nF, +80-20 %, 6.3 V, Y5 V, TP, 2012
1	2203-000466	C1010, C1050	C-CERAMIC, CHIP;0.001 nF, 0.25 pF, 50 V, NP0, TP, 1005
1	2203-000995	C1011, C309, C942, C951	C-CERAMIC, CHIP;0.047 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-000233	C1012, C1036, C1037	C-CERAMIC, CHIP;0.1 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-000812	C1013, C1045, C211	C-CERAMIC, CHIP;0.033 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-001072	C1014	C-CERAMIC, CHIP;0.056 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-001124	C1017, C1024, U1011	C-CERAMIC, CHIP;680 pF, 10 %, 50 V, X7R, TP, 1005, -
1	2203-005065	C102, C104, C106, C110	C-CERAMIC, CHIP;1000 nF, +80-20 %, 10 V, Y5 V, TP, 1608
1	2203-000628	C1021, C1035, C611	C-CERAMIC, CHIP;0.022 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-000696	C1022	C-CERAMIC, CHIP;0.002 nF, 0.25 pF, 50 V, NP0, TP, 1005
1	2203-000254	C1028, C1030, C111	C-CERAMIC, CHIP;10 nF, 10 %, 16 V, X7R, TP, 1005, -
1	2203-000278	C1029, C784	C-CERAMIC, CHIP;0.01 nF, 0.5 pF, 50 V, NP0, TP, 1005
1	2203-000425	C1031, C938	C-CERAMIC, CHIP;0.018 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-005061	C1033, C115, C201, C203	C-CERAMIC, CHIP;100 nF, +80-20 %, 16 V, Y5 V, TP, 1005
1	2203-000233	C1038, C1039, C1041	C-CERAMIC, CHIP;0.1 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-001259	C1044	C-CERAMIC, CHIP;0.008 nF, 0.5 pF, 50 V, NP0, TP, 1005
1	2404-001105	C107, C108, C117, C205	C-T A, CHIP;10 uF, 20 %, 6.3 V, GP, TP, 2012
1	2203-005065	C113, C120, C204, C303	C-CERAMIC, CHIP;1000 nF, +80-20 %, 10 V, Y5 V, TP, 1608
1	2203-002494	C116	C-CERAMIC, CHIP;470 nF, 10 %, 16 V, X7R, TP, 2012
1	2203-000233	C118, C617, C618, C619	C-CERAMIC, CHIP;0.1 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-000254	C119, C510, C602, C603	C-CERAMIC, CHIP;10 nF, 10 %, 16 V, X7R, TP, 1005, -
1	2203-005496	C121	C-CERAMIC, CHIP;220 nF, +80-20 %, 10 V, Y5 V, TP, 1005
1	2203-005571	C126	C-CERAMIC, CHIP;10000 nF, +80-20 %, 6.3 V, Y5 V, TP, 2012
1	2203-005562	C202	C-CERAMIC, CHIP;10000 nF, +80-20 %, 10 V, Y5 V, TP, 3216
1	2404-001105	C206, C966	C-T A, CHIP;10 uF, 20 %, 6.3 V, GP, TP, 2012
1	2203-005061	C207, C208, C210, C315	C-CERAMIC, CHIP;100 nF, +80-20 %, 16 V, Y5 V, TP, 1005
1	2203-000812	C212, C213, C214, C215	C-CERAMIC, CHIP;0.033 nF, 5 %, 50 V, NP0, TP, 1005

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1	2203-000812	C216, C217, C218, C804	C-CERAMIC, CHIP;0.033 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-000870	C308, C905, C907	C-CERAMIC, CHIP;0.003 nF, 0.25 pF, 50 V, NP0, TP, 1005
1	2203-002668	C310, L919	C-CERAMIC, CHIP;0.0005 nF, 0.1 pF, 50 V, NP0, TP, 1005
1	2203-001103	C313	C-CERAMIC, CHIP;6.8 nF, 10 %, 50 V, X7R, TP, 1608, -
1	2203-000189	C314	C-CERAMIC, CHIP;100 nF, +80-20 %, 25 V, Y5 V, TP, 1608,
1	2203-005061	C316, C320, C411, C506	C-CERAMIC, CHIP;100 nF, +80-20 %, 16 V, Y5 V, TP, 1005
1	2203-005065	C404, C407, C520, C717	C-CERAMIC, CHIP;1000 nF, +80-20 %, 10 V, Y5 V, TP, 1608
1	2404-001100	C410, C915	C-T A, CHIP;33 uF, 20 %, 6.3 V, GP, TP, 3719, -
1	2203-001239	C421, C422	C-CERAMIC, CHIP;0.082 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-000311	C425	C-CERAMIC, CHIP;0.12 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-005509	C501, C502, C503	C-CERAMIC, CHIP;330 nF, +80-20 %, 10 V, Y5 V, TP, 1005
1	2203-005061	C508, C601, C610, C703	C-CERAMIC, CHIP;100 nF, +80-20 %, 16 V, Y5 V, TP, 1005
1	2404-001101	C522	C-T A, CHIP;1 uF, 20 %, 16 V, GP, TP, 2012, -
1	2203-000254	C604, C605, C606, C607	C-CERAMIC, CHIP;10 nF, 10 %, 16 V, X7R, TP, 1005, -
1	2203-000254	C608, C609, C613, C614	C-CERAMIC, CHIP;10 nF, 10 %, 16 V, X7R, TP, 1005, -
1	2203-000628	C612	C-CERAMIC, CHIP;0.022 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-000254	C615, C704, C709, C710	C-CERAMIC, CHIP;10 nF, 10 %, 16 V, X7R, TP, 1005, -
1	2203-000233	C620, C621, C701, C702	C-CERAMIC, CHIP;0.1 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-001405	C622	C-CERAMIC, CHIP;22 nF, +80-20 %, 25 V, Y5 V, TP, 1005
1	2203-000233	C705, C706, C805, C809	C-CERAMIC, CHIP;0.1 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-000254	C711, C712, C718, C732	C-CERAMIC, CHIP;10 nF, 10 %, 16 V, X7R, TP, 1005, -
1	2203-005061	C720, C721, C722, C926	C-CERAMIC, CHIP;100 nF, +80-20 %, 16 V, Y5 V, TP, 1005
1	2203-005065	C723, C724, C725, C812	C-CERAMIC, CHIP;1000 nF, +80-20 %, 10 V, Y5 V, TP, 1608
1	2203-000254	C801, C802, C806, C807	C-CERAMIC, CHIP;10 nF, 10 %, 16 V, X7R, TP, 1005, -
1	2203-005552	C808	C-CERAMIC, CHIP;0.0022 nF, 0.1 pF, 50 V, NP0, TP, 1005
1	2203-000812	C810, C811, C813, C922	C-CERAMIC, CHIP;0.033 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-000438	C818, C909, C910, C913	C-CERAMIC, CHIP;1 nF, 10 %, 50 V, X7R, TP, 1005, -
1	2203-005288	C902	C-CERAMIC, CHIP;0.001 nF, 0.1 pF, 50 V, NP0, TP, 1005
1	2203-005055	C904, C906	C-CERAMIC, CHIP;0.0056 nF, 0.25 pF, 50 V, NP0, TP, 1005
1	2203-000438	C914, C919, C923, C924	C-CERAMIC, CHIP;1 nF, 10 %, 50 V, X7R, TP, 1005, -
1	2203-000254	C917, C965	C-CERAMIC, CHIP;10 nF, 10 %, 16 V, X7R, TP, 1005, -
1	2203-000679	C918, C976	C-CERAMIC, CHIP;0.027 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-000359	C925	C-CERAMIC, CHIP;0.15 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-000438	C929, C930, C931, C939	C-CERAMIC, CHIP;1 nF, 10 %, 50 V, X7R, TP, 1005, -

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1	2203-005061	C932, C934, C954, C957	C-CERAMIC, CHIP;100 nF, +80-20 %, 16 V, Y5 V, TP, 1005
1	2703-001737	C935, C937	INDUCTOR-SMD;2.7 nH, 0.3 nH, 1 x 0.5 x 0.5 mm
1	2703-001734	C936	INDUCTOR-SMD;6.8 nH, 5 %, 1 x 0.5 x 0.5 mm
1	2301-001214	C940	C-FILM, CHIP;4.7 nF, 5 %, 16 V, TP, 2012, -
1	2301-001231	C941	C-FILM, CHIP;680 pF, 5 %, 50 V, TP, 2012, -
1	2203-001412	C944	C-CERAMIC, CHIP;0.03 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-000812	C958, C962, C964, C968	C-CERAMIC, CHIP;0.033 nF, 5 %, 50 V, NP0, TP, 1005
1	2203-005061	C959	C-CERAMIC, CHIP;100 nF, +80-20 %, 16 V, Y5 V, TP, 1005
1	2404-001088	C963	C-T A, CHIP;2.2 uF, 20 %, 6.3 V, GP, TP, 2012, -
1	2203-000812	C969, C978	C-CERAMIC, CHIP;0.033 nF, 5 %, 50 V, NP0, TP, 1005
1	2301-001475	C972	C-FILM, CHIP;3.9 nF, 5 %, 16 V, TP, 2.0 x 1.25 x 0.9MM, -
1	2301-001419	C973	C-FILM, CHIP;8.2 nF, 5 %, 16 V, TP, 2012, -
1	2301-001197	C974, C975	C-FILM, CHIP;0.39 nF, 5 %, 50 V, TP, 2 x 1.25 x 0.8 mm, -
1	2203-000654	C977	C-CERAMIC, CHIP;270 pF, 10 %, 50 V, X7R, TP, 1005, -
1	2203-000438	C979, C981	C-CERAMIC, CHIP;1 nF, 10 %, 50 V, X7R, TP, 1005, -
1	3710-001492	CN201	CONNECTOR-SOCKET;40P, 2R, 0.5 mm, SMD-S, AUF
1	3710-001755	CN301	CONNECTOR-SOCKET;18P, 1R, 0.5 mm, SMD- A, AUF
1	3722-001380	CN401	JACK-PHONE;6P, 2.6PI, AG, BLK, -
1	3710-001105	CN501	CONNECTOR-SOCKET;2P, 1R, 1.27 mm, SMD-S, AU
1	3711-004621	CN601	CONNECTOR-HEADER;BOX, 14P, 2R, 0.5 mm, SMD-S, AUF
1	3709-001121	CN801	CONNECTOR-CARD EDGE;6P, 2.54 mm, SMD-S, AU
1	0401-001033	D101	DIODE-SWITCHING;MCL4154, 25 V, 200 m A, M-MELF, TP
1	0407-001002	D201, D502	DIODE-ARRAY;DAN222, 80 V, 300 m A, CA2-3, EM3, TP
1	1405-001082	D202, D203, D204, D205	VARISTOR;5.6 V, 20 A, 1 x 0.5 x 0.6 mm, TP
1	1405-001082	D206, ZD302, ZD304	VARISTOR;5.6 V, 20 A, 1 x 0.5 x 0.6 mm, TP
1	1405-001018	D301, D303	VARISTOR;14 V, -, 1.6 x 0.8 mm, TP
1	0407-000115	D501	DIODE-ARRAY;DAN202U, 80 V, 100 m A, CA2-3, SC-70,
1	4709-001214	F1001	COUPLER-DIRECTION;880-915 MHz, 19.5+-1dB, 13dB, 2.0 x 1.
1	4709-001243	F1002	COUPLER-DIRECTION;1850-1910 MHZ, 14.8+-1DB, -, 2 x 1.25 x
1	2904-001317	F1003	FILTER-SAW;1.96GHZ, 60 MHZ, 1930-1990 MHZ/2.0 dB, TP, -, -
1	2904-001271	F1004	FILTER-SAW;942.5 MHz, 35 MHz, +-17.5 MHz/1.7 dB, TP, +-17.
1	2904-001226	F901	FILTER-SAW;942.5 MHz, 35 MHz, 925-960 MHz/2 dB, TP, 925-96
1	2904-001320	F902	FILTER-SAW;225 MHZ, 60 MHZ, -, TP, -, -
1	2904-001329	F903	FILTER-SAW;1.8425GHz, -, 1805-1880MHz/1dB, TP, 1805-18

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1	2703-001190	L1001	INDUCTOR-SMD;15 nH, 5 %, 1.6 x 0.8 x 0.8 mm
1	2703-001132	L1002, L1008	INDUCTOR-SMD;4.7 nH, 5 %, 1.6 x 0.8 x 0.8 mm
1	2703-001204	L1004	INDUCTOR-SMD;1.2 nH, 0.3 nH, 1.6 x 0.8 x 0.8 mm
1	2703-001167	L1005	INDUCTOR-SMD;8.2 nH, 10 %, 1.6 x 0.8 x 0.8 mm
1	2703-001207	L1006, L1007	INDUCTOR-SMD;6.8 nH, 5 %, 1.6 x 0.8 x 0.8 mm
1	2703-001258	L1009	INDUCTOR-SMD;3.3 nH, 0.3 nH, 1.6 x 0.8 x 0.8 mm
1	3301-001105	L101	CORE-FERRITE;AB, 1.6 x 0.8 x 0.8 mm, -, -
1	3301-001208	L201, L202	CORE-FERRITE BEAD;AB, 1.6 x 0.8 x 0.8 mm, -, -
1	2007-000070	L302	R-CHIP;0 ohm, 5 %, 1/16 W, D A, TP, 1608
1	2703-002052	L303	INDUCTOR-SMD;1.5 mH, 20 %, 3.8 x 3.8 x 2.0 mm
1	2703-001701	L304	INDUCTOR-SMD;6.8 nH, 10 %, 1.0 x 0.5 x 0.5 mm
1	2703-001853	L514	INDUCTOR-SMD;10 uH, 20 %, 6 x 6 x 1.8 mm
1	2703-001732	L902, L907	INDUCTOR-SMD;56 nH, 5 %, 1.8 x 1.12 x 1.02 mm
1	2703-001175	L904	INDUCTOR-SMD;56 nH, 5 %, 1.6 x 0.8 x 0.8 mm
1	2703-001748	L909	INDUCTOR-SMD;5.6 nH, 0.3 nH, 1.0 x 0.5 x 0.5 mm
1	2703-001685	L910	INDUCTOR-SMD;82 nH, 5 %, 1.7 x 1.14 x 1.02 mm
1	2703-001726	L911	INDUCTOR-SMD;27 nH, 5 %, 1 x 0.5 x 0.5 mm
1	2703-001724	L912	INDUCTOR-SMD;1.2 nH, 0.3 nH, 1.0 x 0.5 x 0.5 mm
1	2703-001514	L913	INDUCTOR-SMD;68 nH, 5 %, 1.8 x 1.12 x 1.02 mm
1	2703-001441	L914	INDUCTOR-SMD;5.6 nH, 0.3 nH, 1.6 x 0.8 x 0.8 mm
1	2703-001422	L916, L918	INDUCTOR-SMD;22 nH, 5 %, 1.6 x 0.8 x 0.8 mm
1	0601-001094	LED601	LED;CHIP, Y-GRN, 0.8 x 1.1 mm, 570 nm
1	4302-001081	M101	BATTERY-LI(2ND);-, .25 MAH, COIN, 0.03 m A, -, -
1	2801-004052	OSC601	CRYSTAL-SMD;.032768 MHz, 30PPM, 28-ACM, 9PF, 50 ohm, TP
1	2809-001237	OSC801	OSCILLATOR-VCTCXO;13MHz, 5ppm, 10 kohm//10 pF, TP, 3 V, 2m
1	2806-001265	OSC901	OSCILLATOR-VCO;1740 MHz, -, 0+-3 dBm, TP, 2.85 V,
1	2806-001232	OSC902	OSCILLATOR-VCO;1080 MHz, -, -6to0 dBm, TP, 2.85 V, 6.5 mA
1	2806-001266	OSC903	OSCILLATOR-VCO;897.5MHz/1747.5MHz, -, -, TP, 2.85 V, 20 m
1	0504-001012	Q1001, Q1002, Q1003	TR-DIGITAL;DTC114YE, NPN, 150 mW, 10K/47K, EMT3, TP
1	0504-000168	Q101, Q102, Q114, Q201	TR-DIGITAL;RN1104, NPN, 100 mW, 47K/47K, SSM, TP
1	0504-000168	Q202, Q203, Q204, Q205	TR-DIGITAL;RN1104, NPN, 100 mW, 47K/47K, SSM, TP
1	0501-002011	Q301, Q502	TR-SMALL SIGNAL;2SD2114K, NPN, 200 mW, SOT-23, TP, 8
1	0501-000162	Q302, Q501	TR-SMALL SIGNAL;2SA1576, PNP, 200 mW, SOT-323, TP, 180-3
1	0504-000167	Q503	TR-DIGITAL;RN1102, NPN, 100M W, 10K/10K, SSM, TP

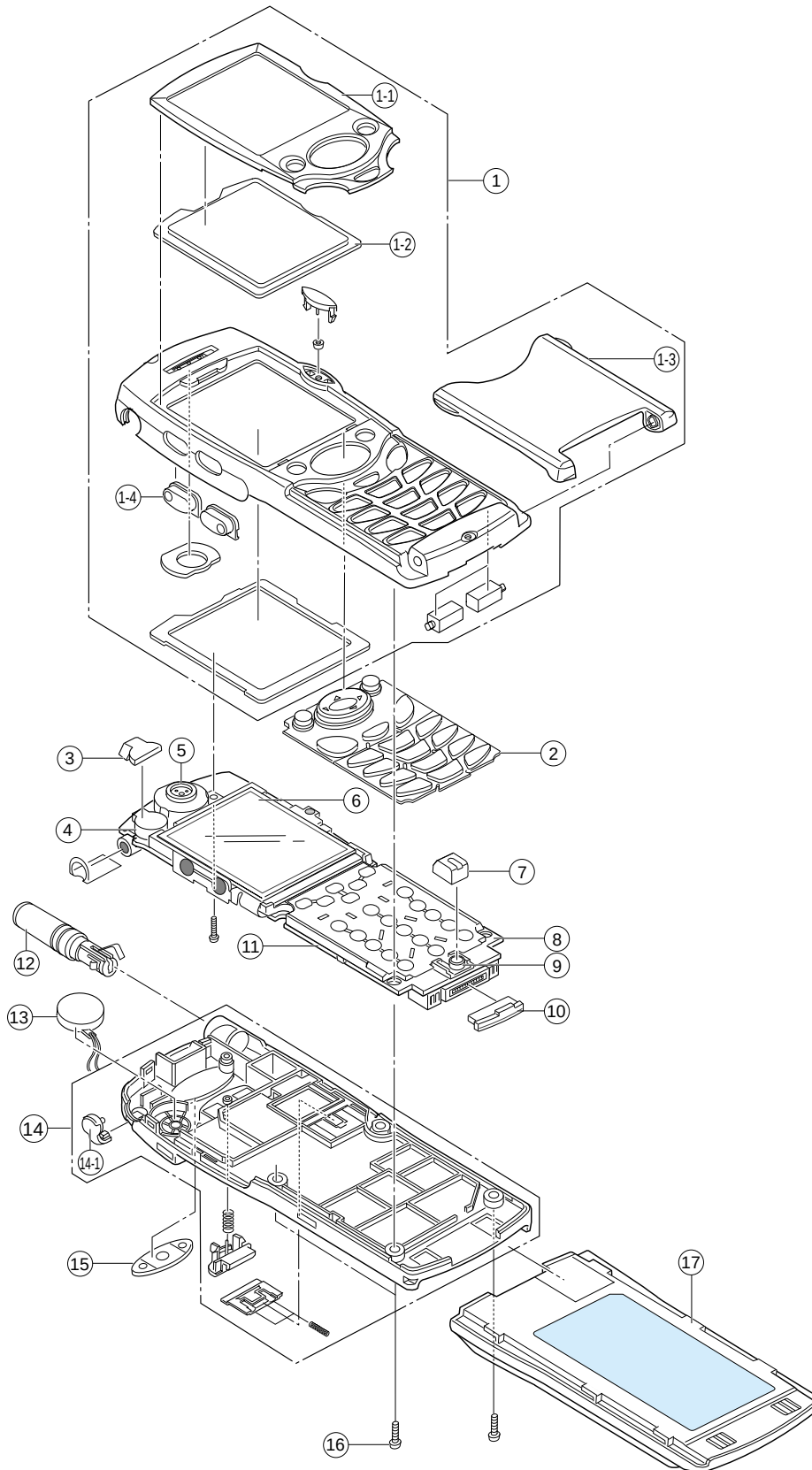
Level	SEC Code	Design LOC	DESCRIPTIONS
1	2007-001288	R1001, R1016, R907	R-CHIP;18 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007008	R1002, R1003, R1011	R-CHIP;300 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000139	R1004	R-CHIP;220 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007132	R1005, R1015	R-CHIP;15 kohm, 1 %, 1/16 W, D A, TP, 1005
1	2007-007142	R1006, R607	R-CHIP;10 kohm, 1 %, 1/16 W, D A, TP, 1005
1	2007-001301	R1008, R1009, R1013	R-CHIP;68 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007139	R101, R1012	R-CHIP;47 kohm, 1 %, 1/16 W, D A, TP, 1005
1	2007-007311	R1010	R-CHIP;22 kohm, 1 %, 1/16 W, D A, TP, 1005
1	2007-001301	R1014, R928	R-CHIP;68 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007008	R1017, R1018, R204	R-CHIP;300 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2203-000995	R1019	C-CERAMIC, CHIP;0.047 nF, 5 %, 50 V, NP0, TP, 1005
1	2007-000162	R102, R116, R210, R408	R-CHIP;100 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000148	R1020, R1021, R1022	R-CHIP;10 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000140	R1023, R302, R303, R304	R-CHIP;1 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000148	R1024, R110, R115, R211	R-CHIP;10 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-001319	R103, R939	R-CHIP;1.2 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000172	R107, R507, R613, R734	R-CHIP;10 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000157	R108, R109, R212, R213	R-CHIP;47 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007107	R201, R203	R-CHIP;100 kohm, 1 %, 1/16 W, D A, TP, 1005
1	2007-007791	R202	R-CHIP;9.1 kohm, 1 %, 1/16 W, D A, TP, 1005
1	2007-007308	R205, R209	R-CHIP;33 kohm, 1 %, 1/16 W, D A, TP, 1005
1	2007-007309	R206	R-CHIP;12 kohm, 1 %, 1/16 W, D A, TP, 1005
1	2007-007592	R207	R-CHIP;270 kohm, 1 %, 1/16 W, D A, TP, 1005
1	2007-007135	R208	R-CHIP;18 kohm, 1 %, 1/16 W, D A, TP, 1005
1	2007-000157	R214, R215, R216, R305	R-CHIP;47 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000148	R222, R403, R404, R502	R-CHIP;10 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000140	R307, R308, R309, R323	R-CHIP;1 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000138	R310, R931, R932	R-CHIP;100 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000157	R311, R511, R512, R609	R-CHIP;47 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000143	R312, R508, R509	R-CHIP;4.7 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000839	R313	R-CHIP;39 ohm, 5 %, 1/16 W, D A, TP, 1608
1	2007-000164	R317	R-CHIP;150 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000140	R326, R328, R330, R334	R-CHIP;1 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007771	R332, R409, R410, R510	R-CHIP;0 ohm, 5 %, 1/16 W, D A, TP, 1005

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1	2007-000161	R405, R803	R-CHIP;82 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000152	R406	R-CHIP;20 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000141	R407	R-CHIP;2.2 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000162	R426	R-CHIP;100 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-001119	R427	R-CHIP;680 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000137	R503	R-CHIP;2 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000148	R504, R514, R601, R608	R-CHIP;10 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007771	R521, R604, R616, R617	R-CHIP;0 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000097	R603	R-CHIP;47 kohm, 5 %, 1/16 W, D A, TP, 1608
1	2007-000932	R605, R912	R-CHIP;470 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000170	R606, R808, R118	R-CHIP;1 Mohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000157	R610	R-CHIP;47 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007771	R618, R619, R620, R621	R-CHIP;0 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007771	R622, R623, R624, R625	R-CHIP;0 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007317	R701, R702, R711, R712	R-CHIP;2.2 kohm, 1 %, 1/16 W, D A, TP, 1005
1	2007-000148	R714, R810	R-CHIP;10 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007698	R728, R729, R730, R731	R-CHIP;5.1 kohm, 1 %, 1/16 W, D A, TP, 1005
1	2007-007698	R732, R733	R-CHIP;5.1 kohm, 1 %, 1/16 W, D A, TP, 1005
1	2007-000172	R801, R802, R902, R903	R-CHIP;10 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000151	R804	R-CHIP;15 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000174	R805, R911, R943	R-CHIP;47 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007771	R806, R809, R812, R813	R-CHIP;0 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000159	R807	R-CHIP;56 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007771	R814, R914, R929, R117	R-CHIP;0 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-001325	R901, R942	R-CHIP;3.3 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-001284	R905, R926, R713	R-CHIP;4.7 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000172	R906, R908, R915, R922	R-CHIP;10 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000173	R909	R-CHIP;22 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007008	R910, R913	R-CHIP;300 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000144	R917	R-CHIP;5.1 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000143	R921	R-CHIP;4.7 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000146	R923	R-CHIP;6.8 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-000172	R927, R930, R941, R945	R-CHIP;10 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2703-001733	R933	INDUCTOR-SMD;8.2 nH, 5 %, 1 x 0.5 x 0.5 mm

Level	SEC Code	Design LOC	DESCRIPTIONS
1	2007-000153	R934	R-CHIP;22 kohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-001217	R938	R-CHIP;82 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-001295	R940	R-CHIP;39 ohm, 5 %, 1/16 W, D A, TP, 1005
1	2007-007517	R946	240 ohm, 1 %, 1/16 W, D A, TP, 1005
1	1209-001292	U1001	IC-ETC, LINEAR;HD155171NP01EL, QFP, 24P, 165MIL, PLAST
1	1201-001789	U1002	IC-POWER AMP;08120, -, 8P, -, DUAL, -, -, 8 V, -, -30TO+100C
1	0801-000794	U1003	IC-CMOS LOGIC;7S08, AND GATE, SOT-25, 5P, 63MIL,
1	0504-001042	U1004, U1005, U1008	TR-DIGITAL;BCR10PN, NPN/PNP, 250 mW, 10K/10K,
1	2909-001155	U1006	FILTER-DUPLEXER;942.5MHZ, 897.5MHZ, 1/1.2DB, TP, -, -
1	1203-001985	U101	IC-VOLTAGE REGULATOR;2005, QFP, 48P, 276MIL, PLASTIC, 1
1	1107-001225	U1010	IC-FLASH MEMORY;9BV1604, 1M x 16/2M x 8Bit, uBG A, 48P, -, 1
1	1203-001917	U102	IC-VOLTAGE REGULATOR;5213, SOT-23, 5P, 50MIL, PLASTIC,
1	0801-002212	U103	IC-CMOS LOGIC;7S02, NOR GATE, SC-70, 5P, 63MIL, SINGLE,
1	0505-001423	U104, U703	FET-SILICON;FDG6323L, N/P, -, -, -, 0.3 W, SC70-6
1	1203-001515	U201	IC-BATTERY;1510, SSOP, 16P, 150MIL, PLASTIC, 3
1	1003-001226	U302	IC-POWER DRIVER;D361 A, SOP, 8P, 120MIL, SINGLE, 90 m A, TP
1	1001-001088	U401	IC-ANALOG SWITCH;MAX4544EUT-T, -, SOT-23, 6P, -, SINGLE
1	0504-001071	U402	TR-DIGITAL;UMD9N, NPN/PNP, 150 mW, 4.7, UMT6, TP
1	1106-001301	U501	IC-SRAM;1337, 262K x 16Bit, CSP, 72P, -, 85nS, 3 V, -, PLASTI
1	0504-001042	U502, U802	TR-DIGITAL;BCR10PN, NPN/PNP, 250 mW, 10K/10K,
1	GH09-00017A	U601	IC MICOM-SGHQ100;TR09BFSBF17IN-DB
1	1209-001219	U602	IC-SENSOR;LM60C, SOT-23, 3P, 115MIL, PLASTIC
1	1204-001827	U701	IC-SIGNAL PROCESSOR;CSP1099-FSBG A, BG A, 100P, 393MIL,
1	0801-002345	U801	IC-CMOS LOGIC;7S04, INVERTER, SOT-353, 5P, 49MIL, SINGL
1	1209-001308	U901	IC-PLL/SYNTHESISER;HD155131TF, QFP, 56P, 290MIL, PLAST
1	0404-001044	ZD202, ZD203	DIODE-SCHOTTKY;UPS5817, 20 V, 1 A, SMD, TP
1	0406-001084	ZD303	DIODE-TVS;SMF05, 6/- V, 200 W, -
1	1405-001082	ZD305, ZD306, ZD307	VARISTOR;5.6 V, 20 A, 1 x 0.5 x 0.6 mm, TP
1	1405-001082	ZD308, ZD309, ZD310	VARISTOR;5.6 V, 20 A, 1 x 0.5 x 0.6 mm, TP
1	1405-001082	ZD311, ZD312, ZD401	VARISTOR;5.6 V, 20 A, 1 x 0.5 x 0.6 mm, TP
1	1405-001082	ZD402, ZD403, ZD404	VARISTOR;5.6 V, 20 A, 1 x 0.5 x 0.6 mm, TP
1	1405-001082	ZD405	VARISTOR;5.6 V, 20 A, 1 x 0.5 x 0.6 mm, TP

2. SGH-Q105 Exploded View and its Parts List

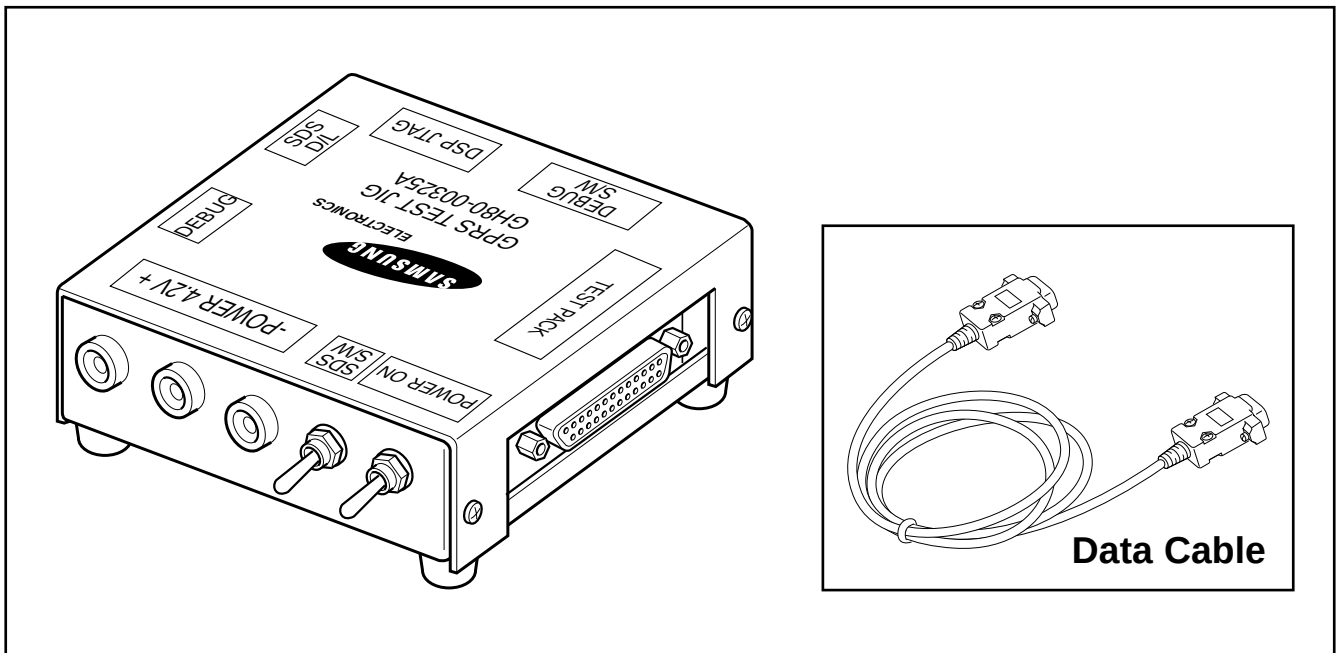
2-1. Cellular phone Exploded View



2-2. Cellular phone Parts List (Sliver)

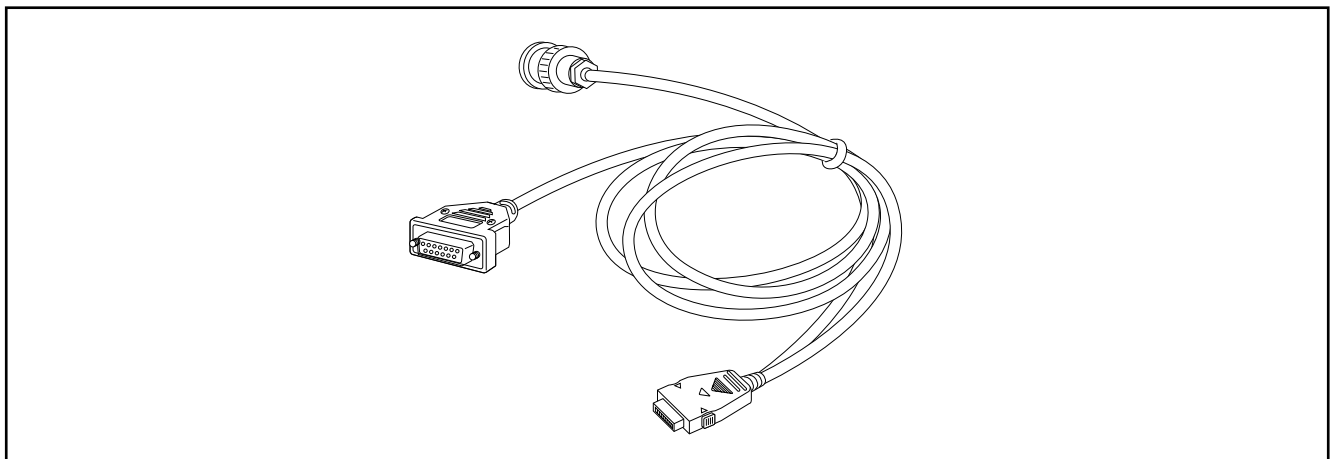
NO		DESCRIPTION	SEC.CODE	REMARK	
1		FRONT COVER ASS'Y	GH75-01309A	SA	
	1-1	FRONT PIECE	GH72-01195B	SNA	
	1-2	LCD WINDOW	GH72-01201A	SNA	
	1-3	FLIP COVER (NO BADGE)	GH72-01199E	SA	
	1-4	SIDE KEY ASS'Y	GH75-00640A	SNA	
2		KEY PAD	GH72-01494B	SA	
3		BUZZER HOLDER	GH73-00348A	SA	
4		BUZZER	3002-001103	SA	
5		SPEAKER	3001-001214	SA	
6		LCD ASS'Y	GH96-00924A	SA	
7		MIC HOLDER	GH73-00347A	SA	
8		MAIN PBA ASS'Y	GH92-00976A	SA	
9		MIC	3003-001034	SA	
10		COVER-CONNECTOR	GH73-00350B	SA	
11		SHIED COVER	GH72-02511A	SA	
12		ANTENNA	GH42-00134A	SA	
13		MOTOR	GH96-00855A	SA	
14		REAR COVER ASS'Y	GH75-01307A	SA	
	14-1	EAR-JACK COVER	GH73-00349B	SNA	
15		DECORATION	GH72-01206A	SA	
16		SCREW(M2, L6) x 4EA	6001-001046	SA	
17		BATTERY	GH43-00404A	SA	900 mAh

2-3. Test Jig (GH80-00325A)

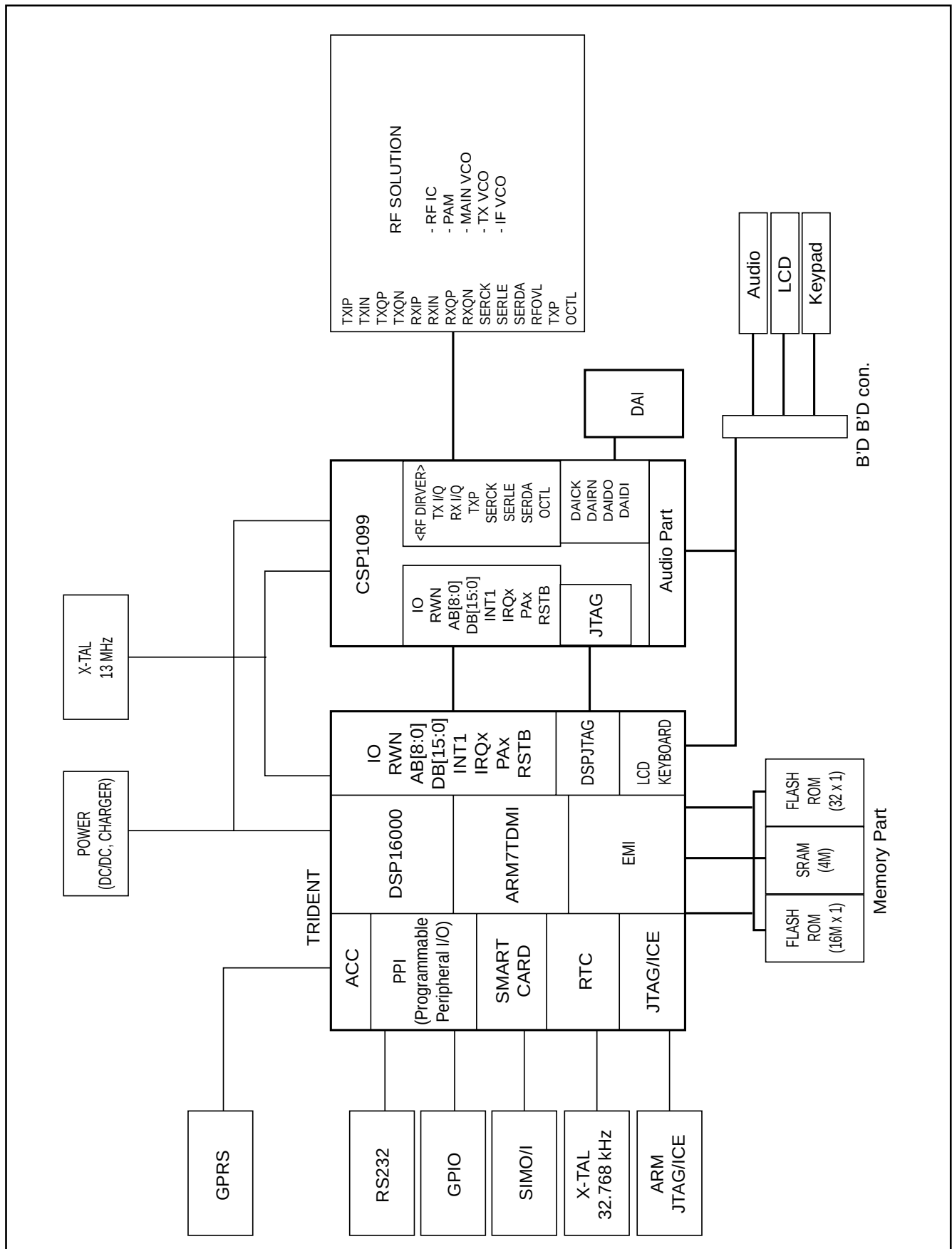


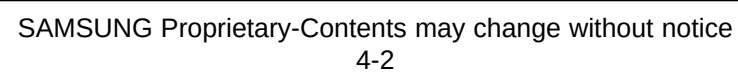
	SWITCH				
MODE	POWER ON	SDS S/W	DEBUG S/W	SDS D/L	DEBUG
D/L	HIGH	LOW	LOW	CONNECT	N.C
CAL	HIGH	LOW	LOW	CONNECT	N.C

2-4. Test Cable (GH39-00061A)



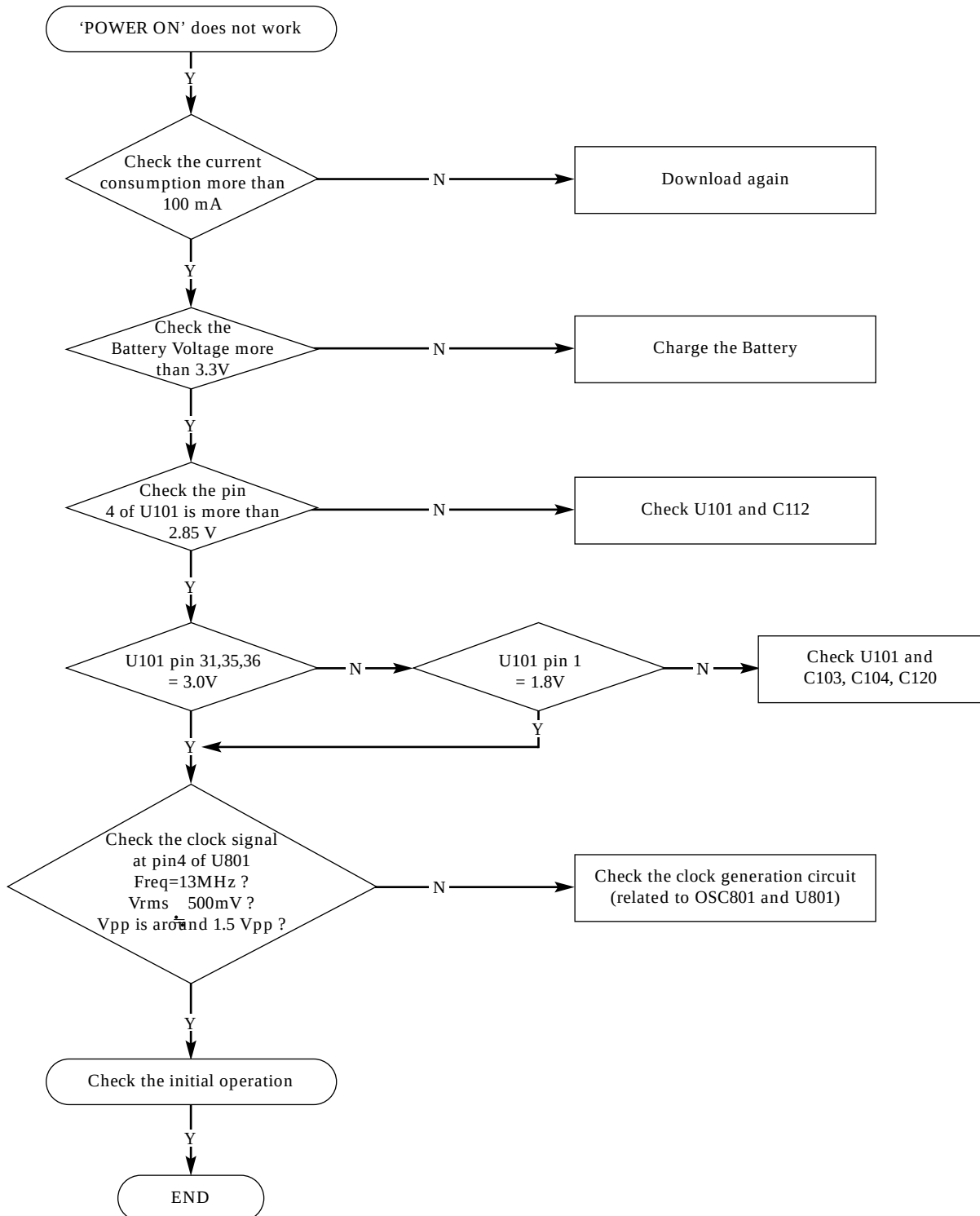
3-2. Base Band Solution Block Diagram



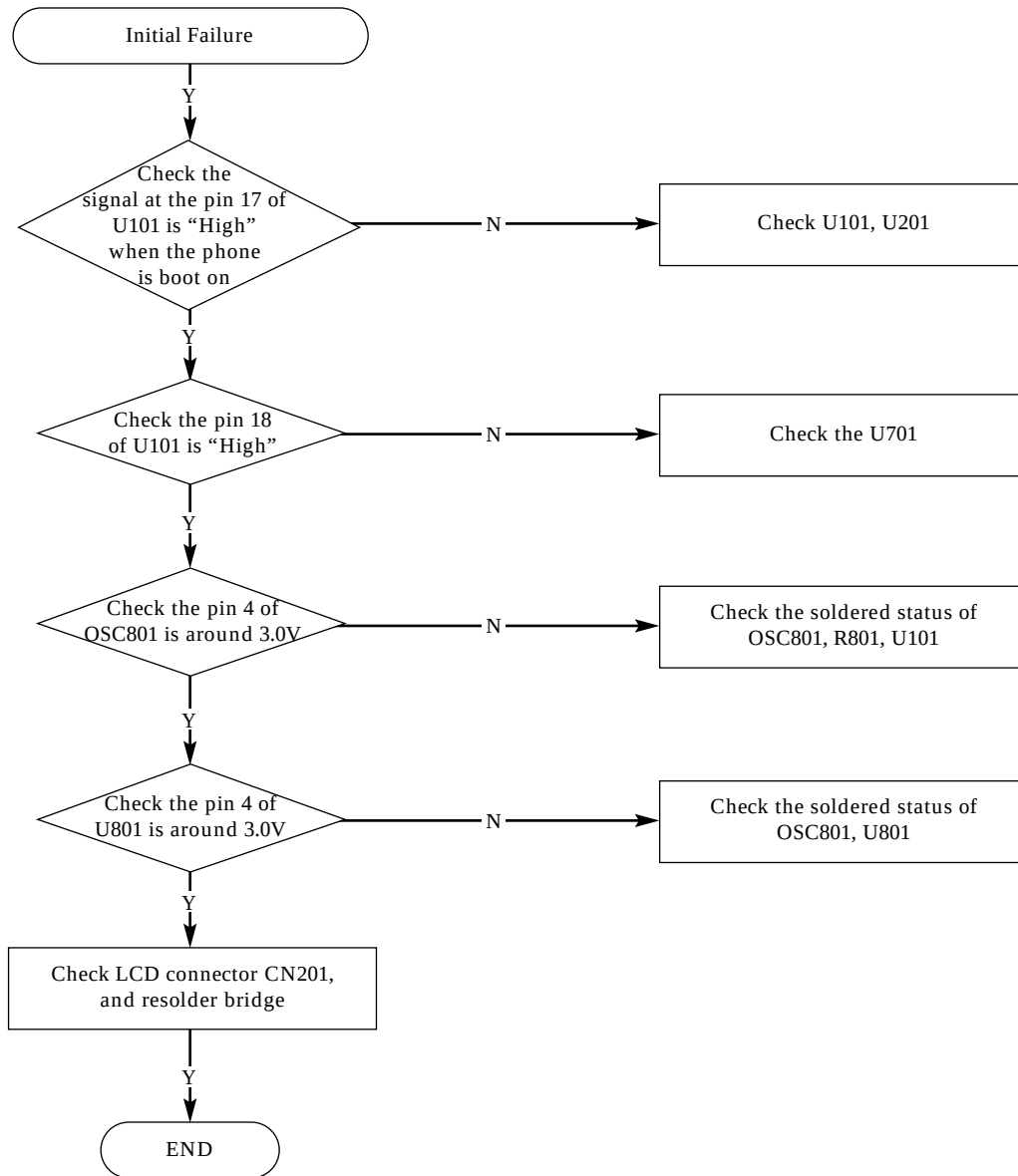


5.SGH-Q105 Flow Chart of Troubleshooting and Circuit Diagrams

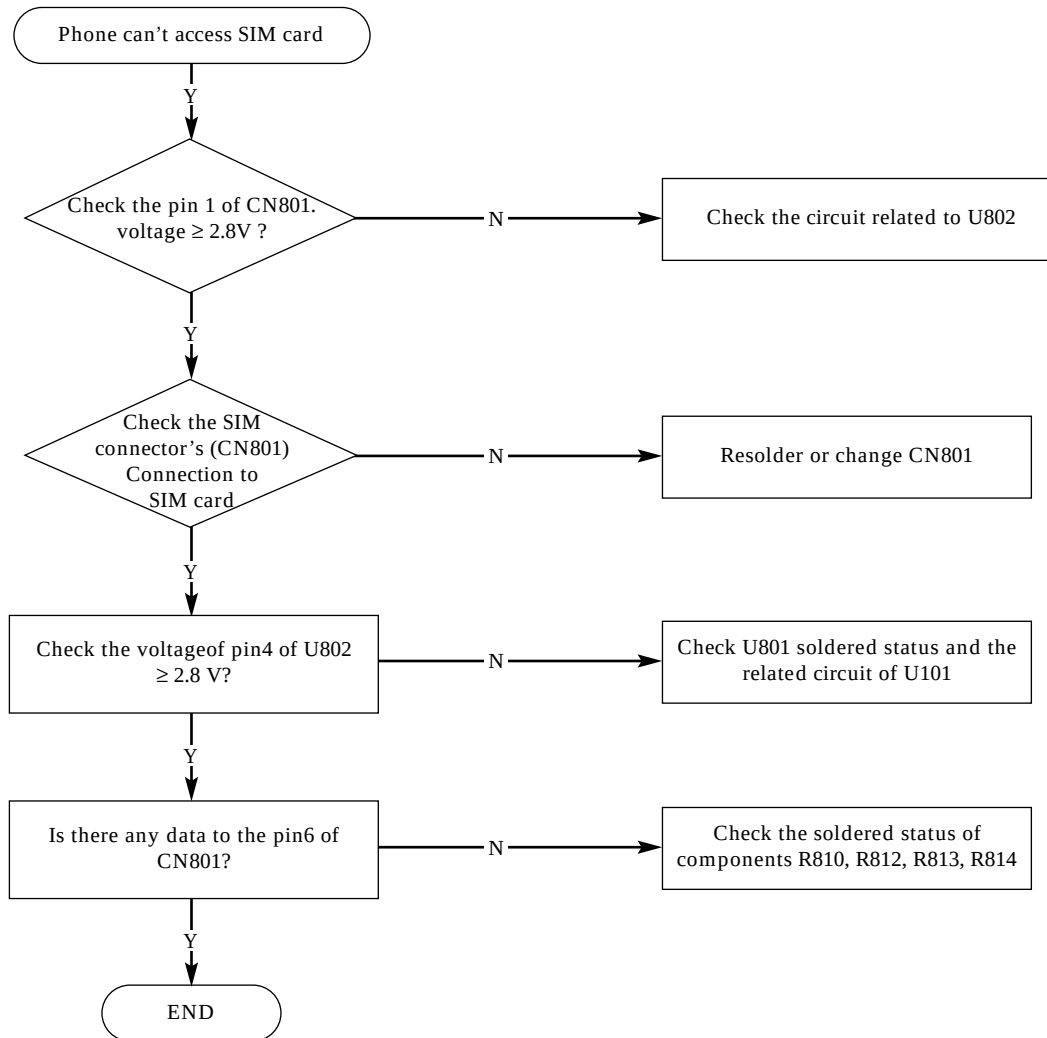
5-1. Power ON



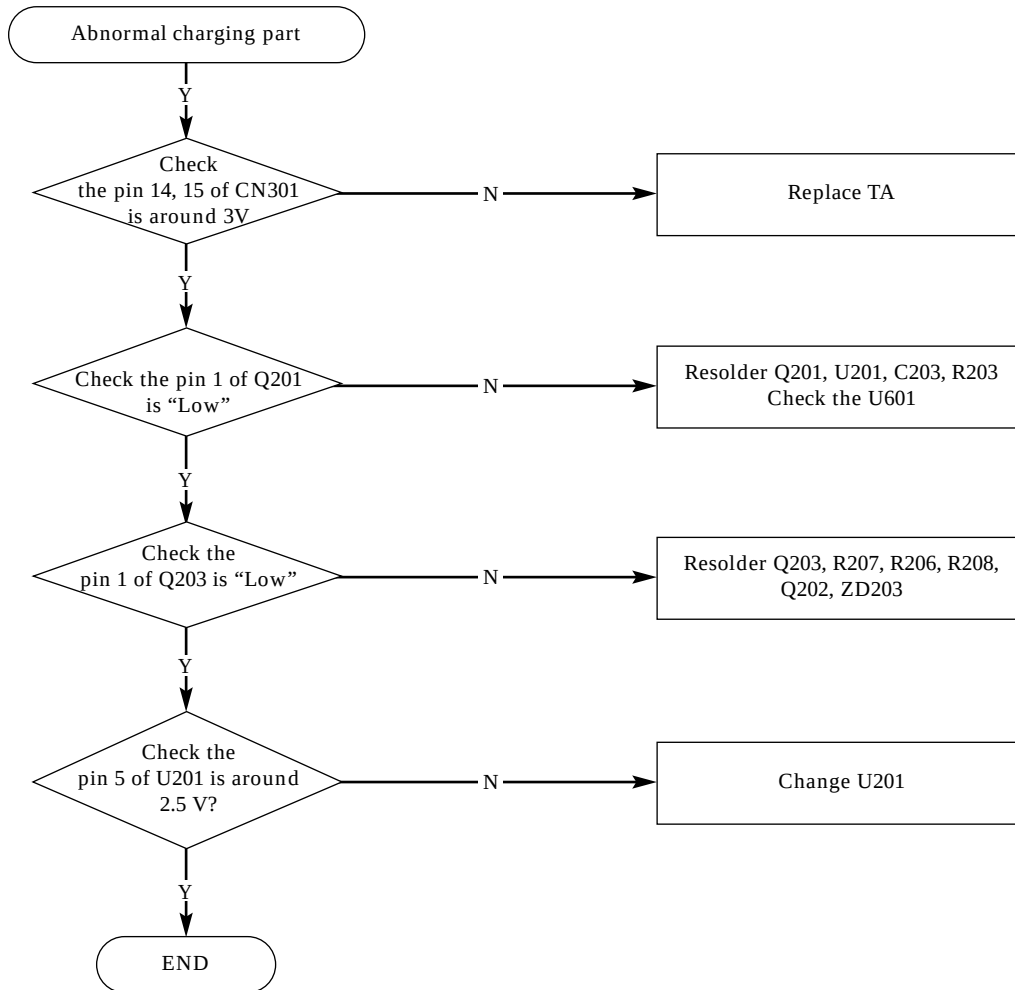
5-2. Initial



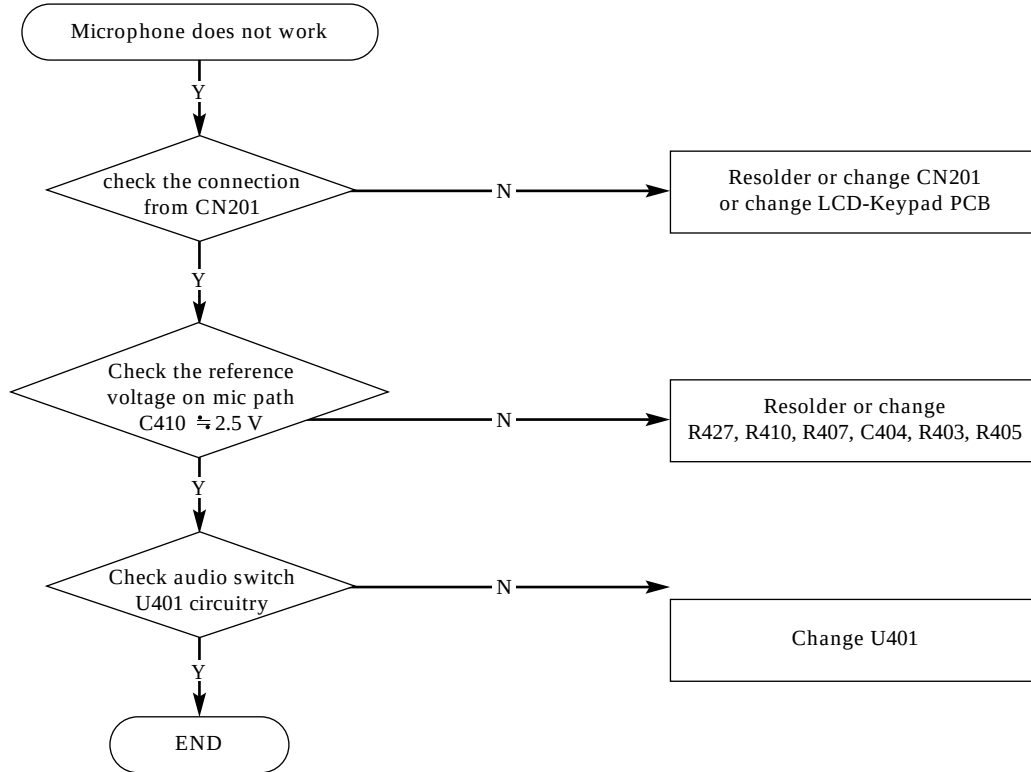
5-3. Sim Part



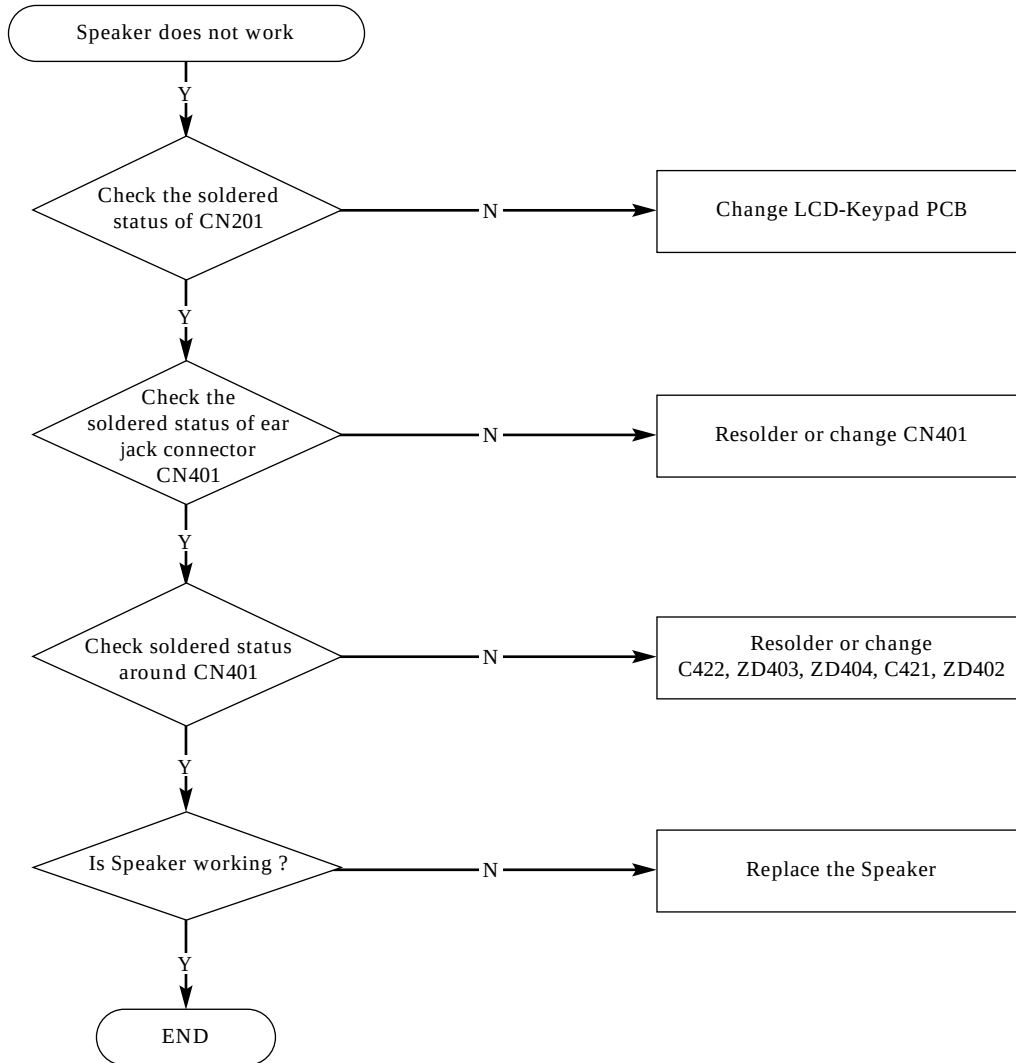
5-4. Charging Part



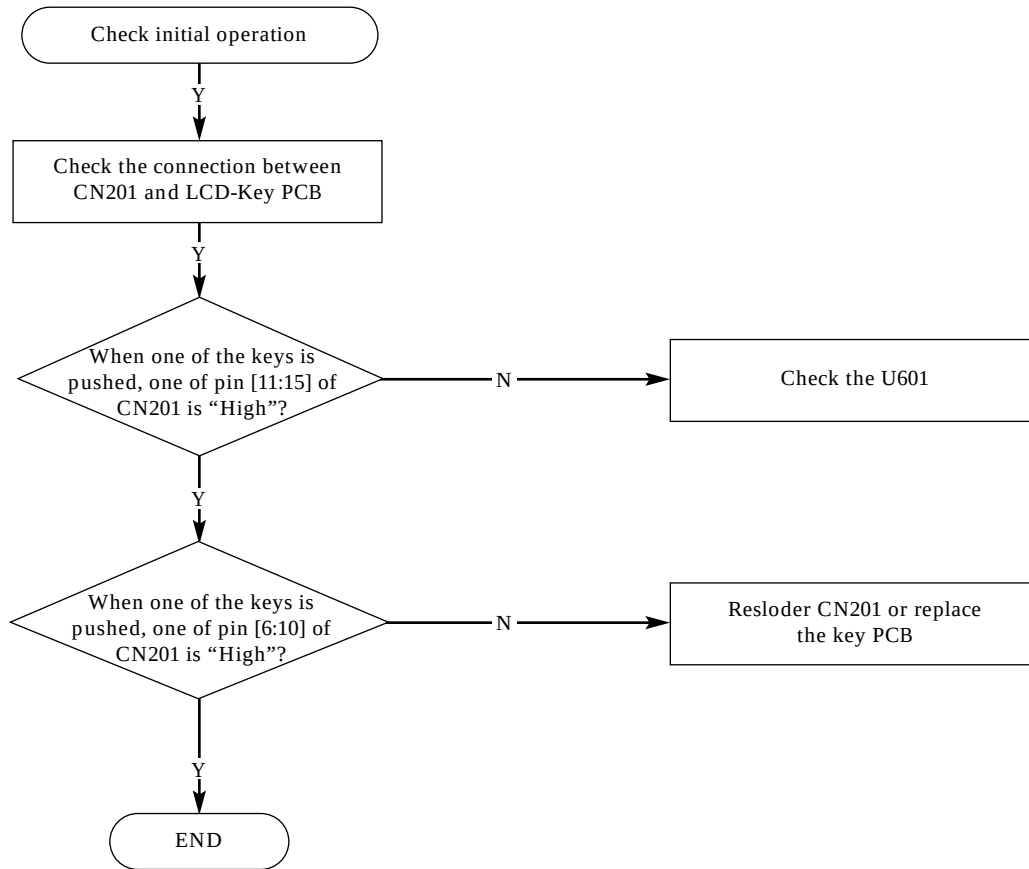
5-5. Microphone Part



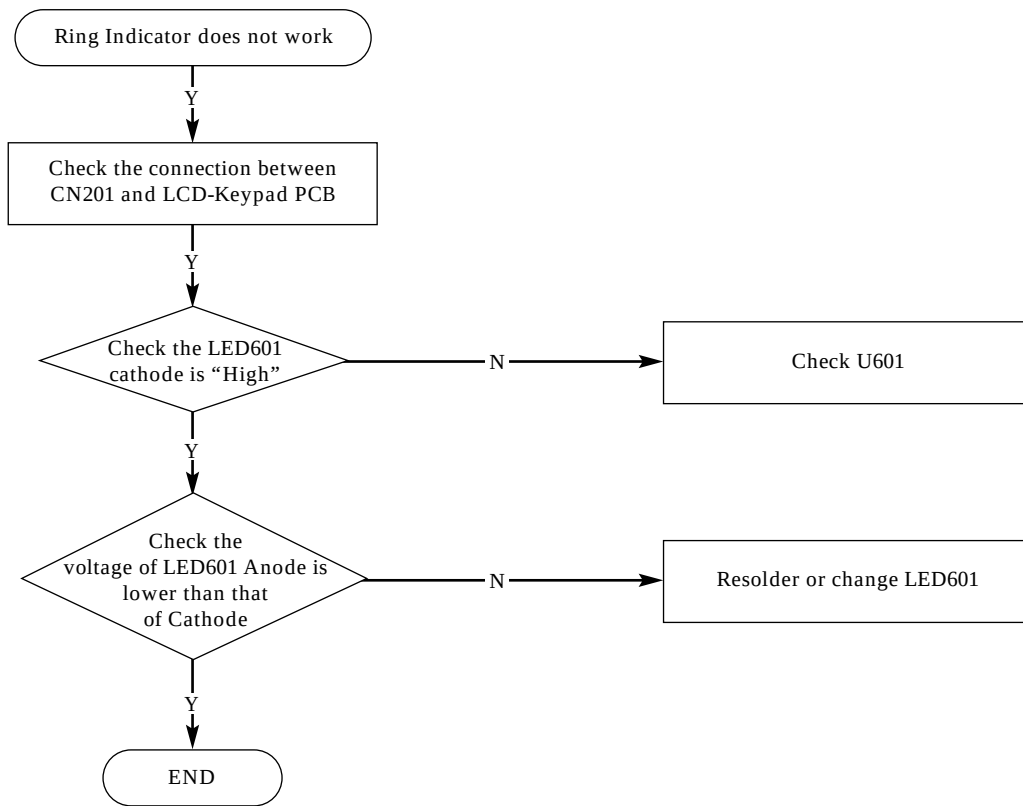
5-6. Speaker Part



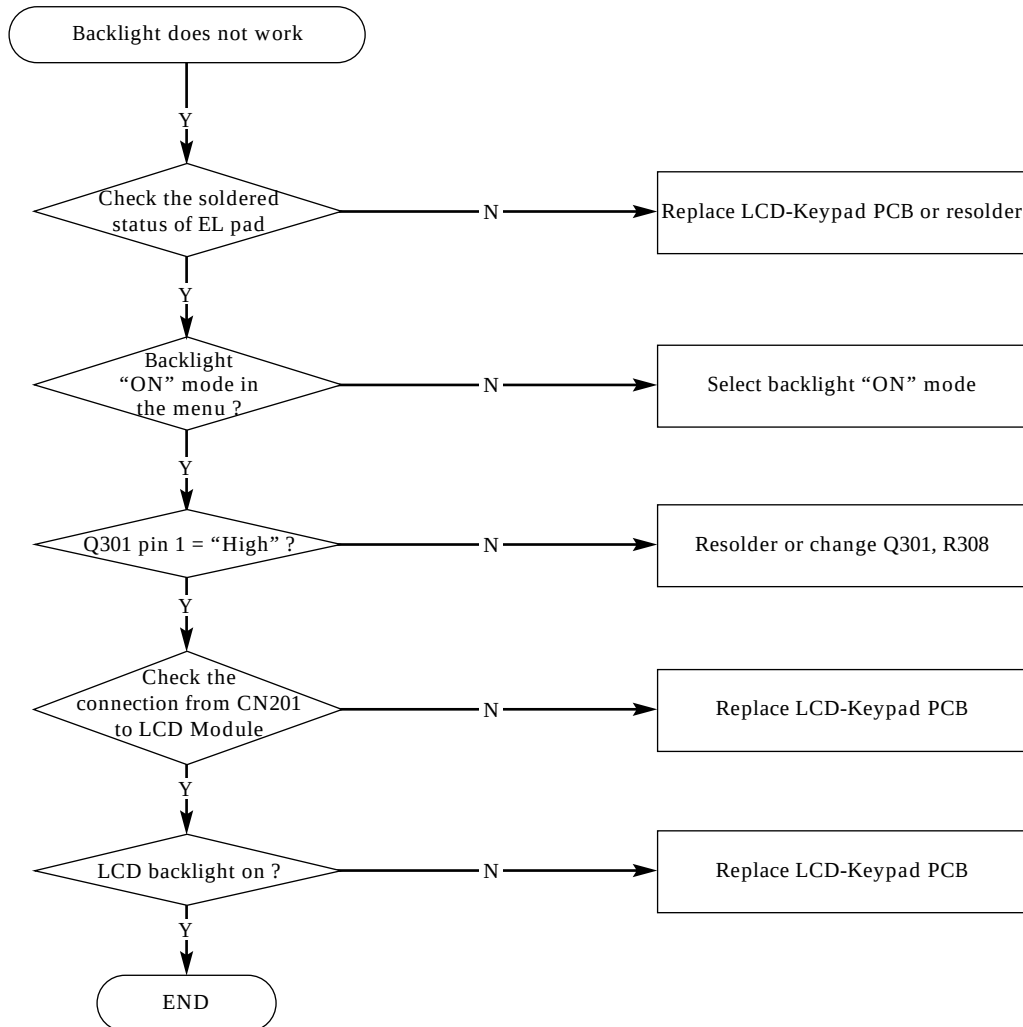
5-7. Key Data Input



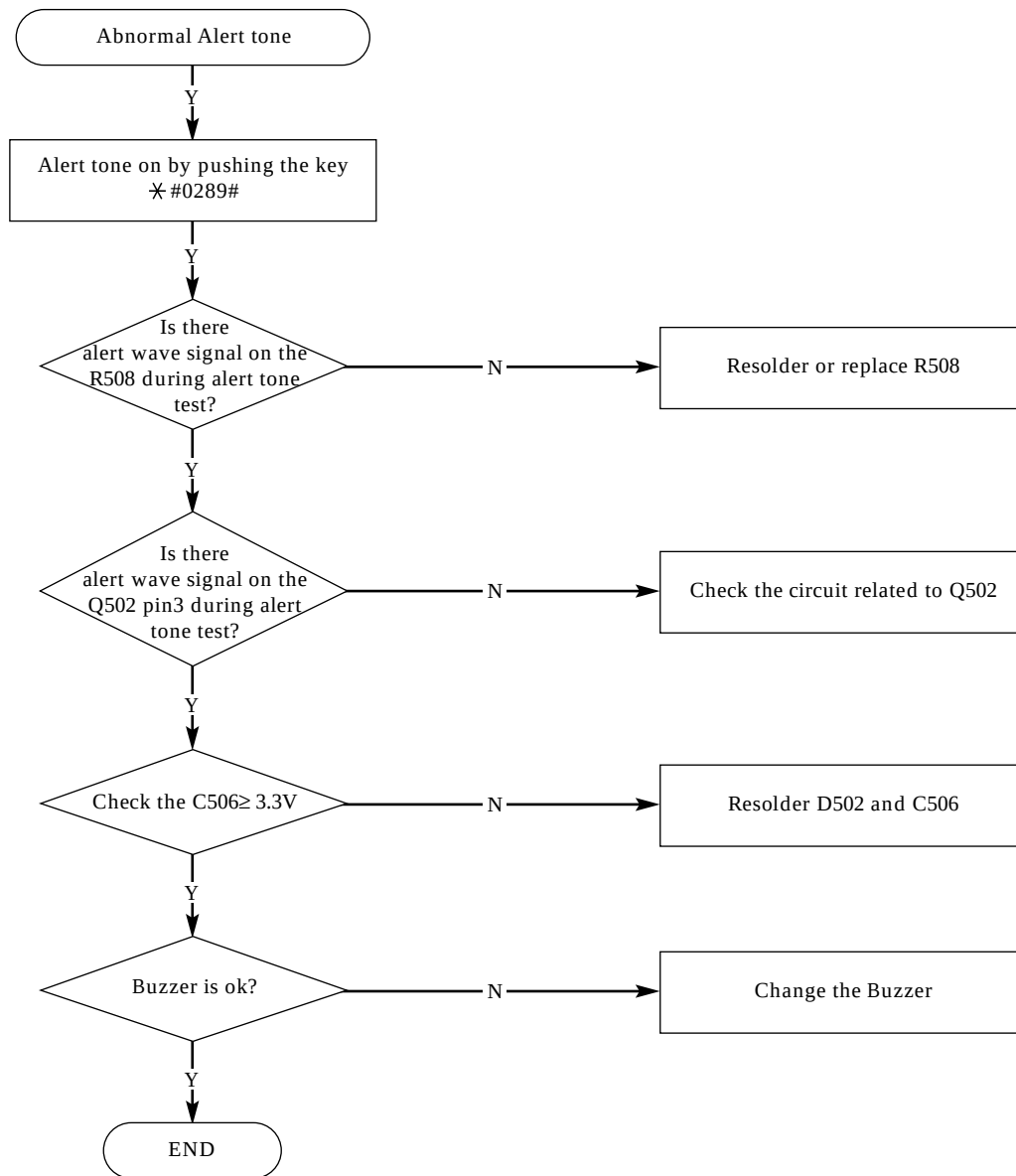
5-8. Ring Indicator



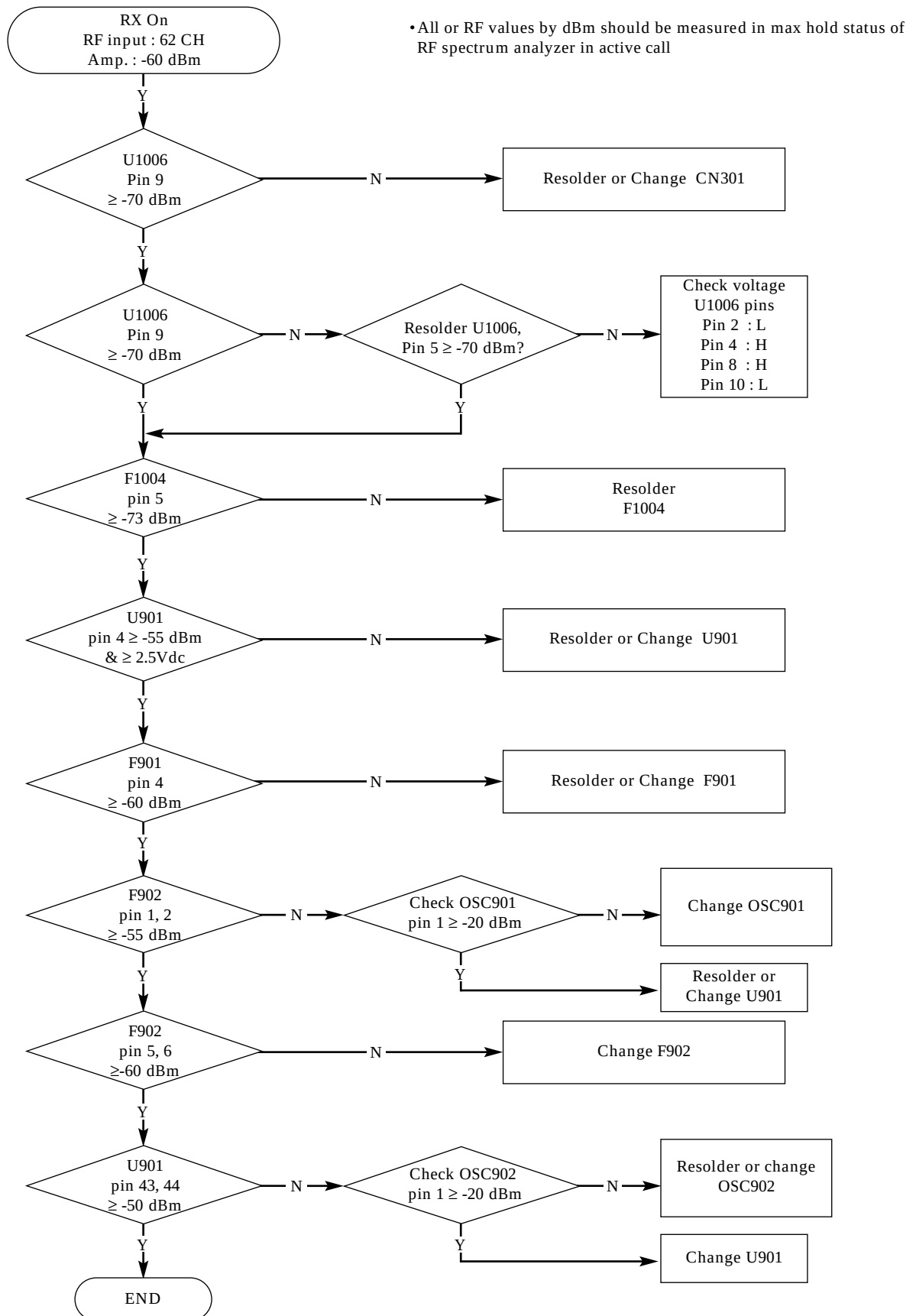
5-9. Back Light



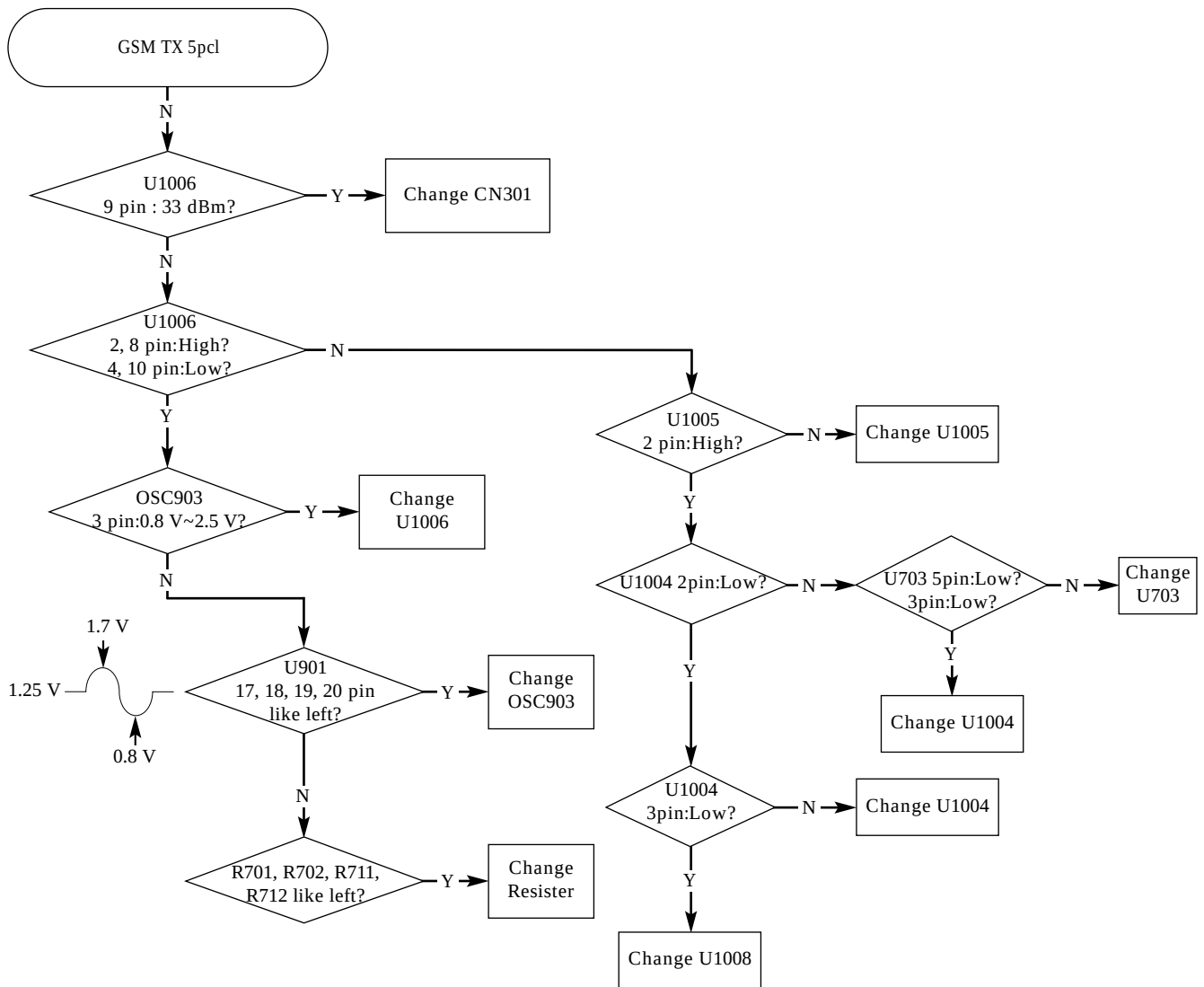
5-10. Alert Tone



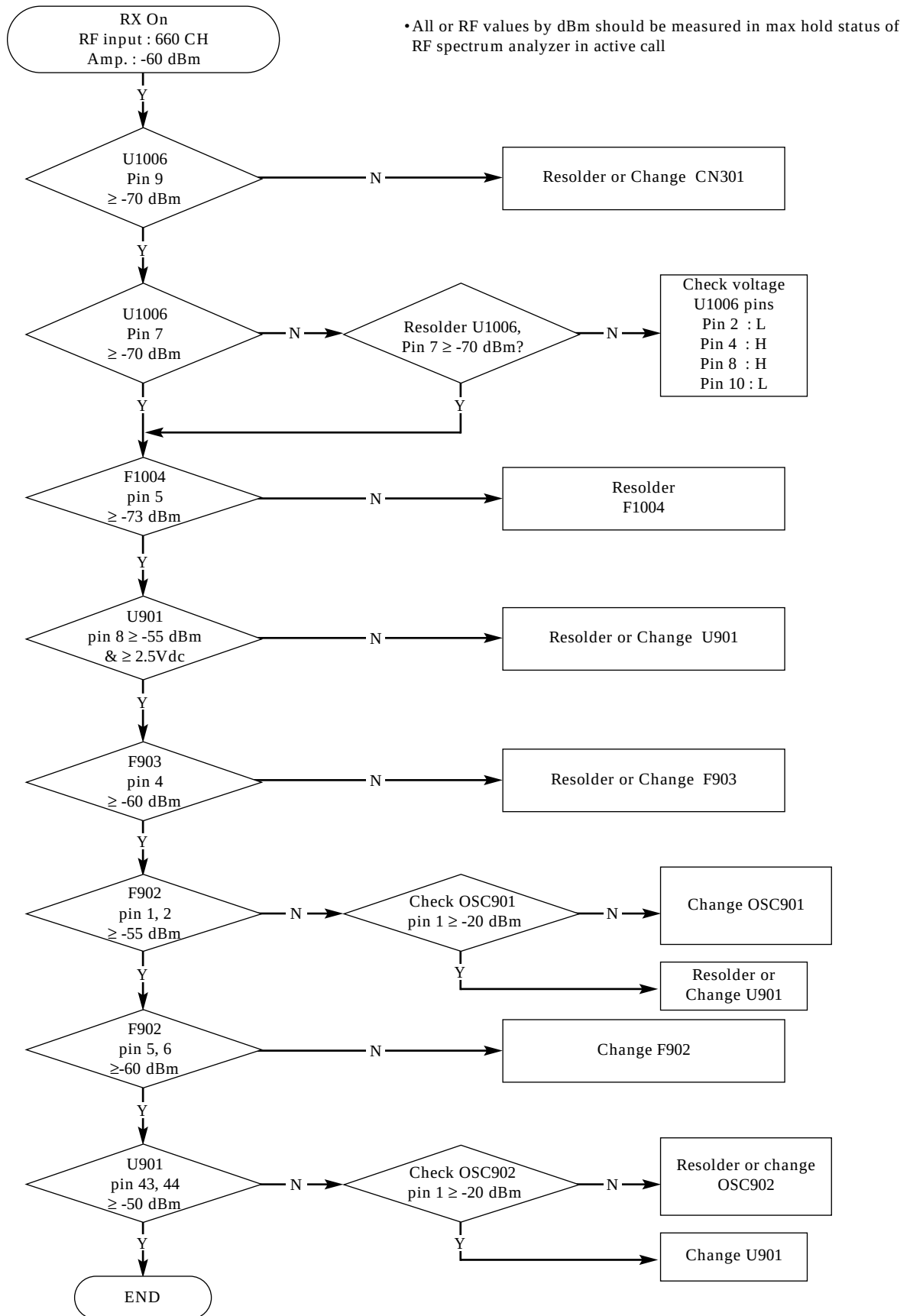
5-11. GSM Receiver



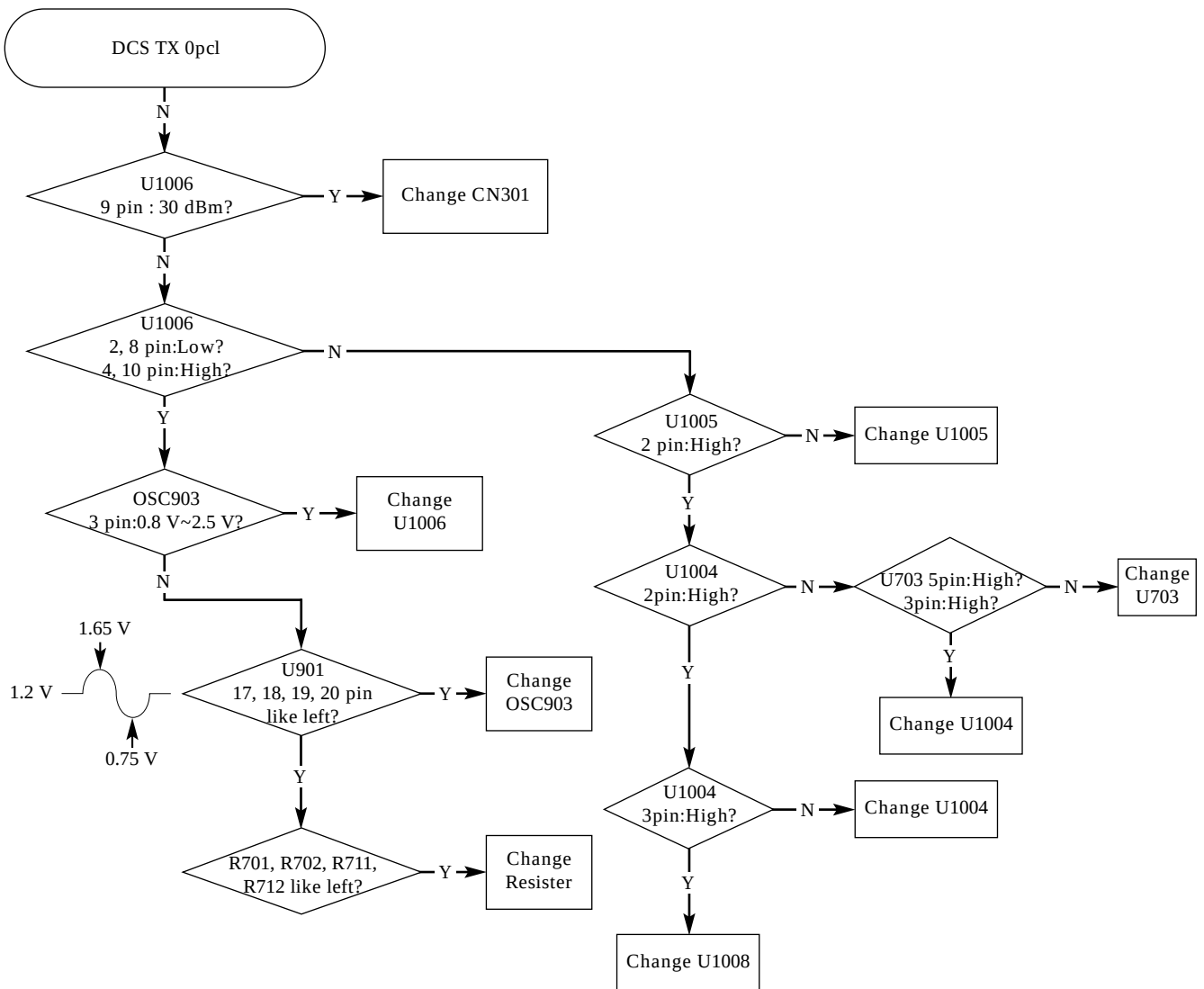
5-12. GSM Transmitter



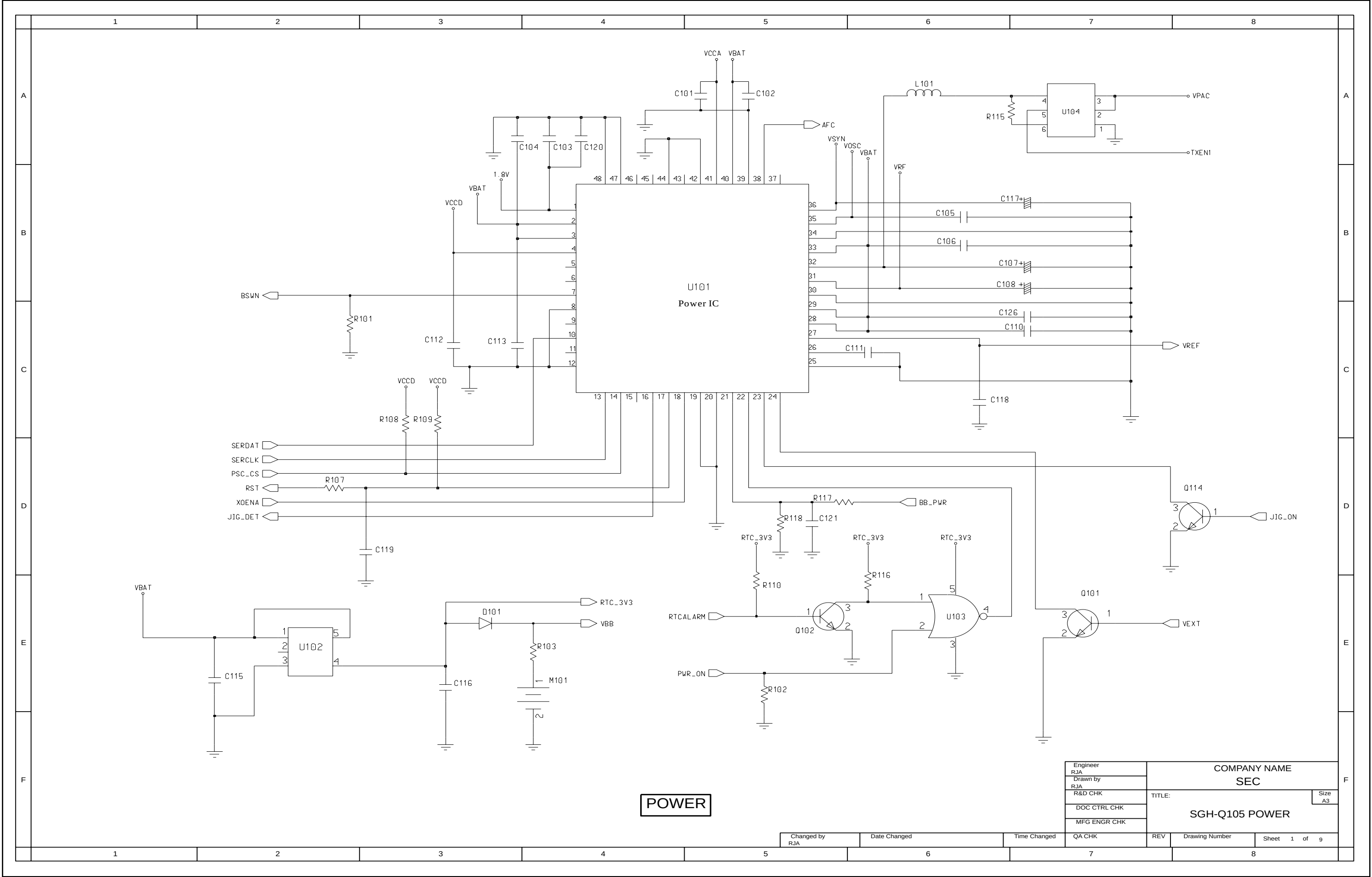
5-13. PCS Receiver



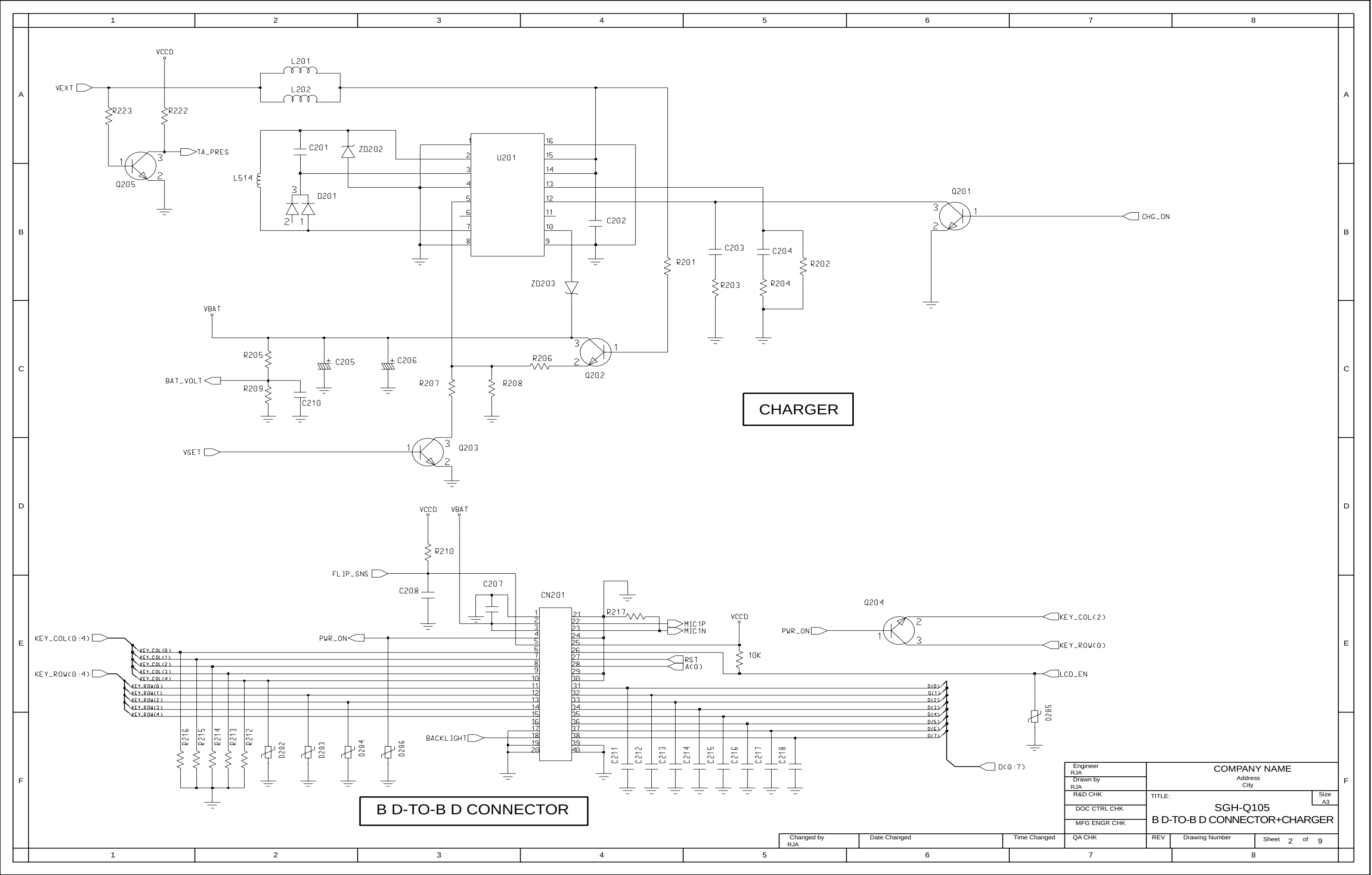
5-14. PCS Transmitter



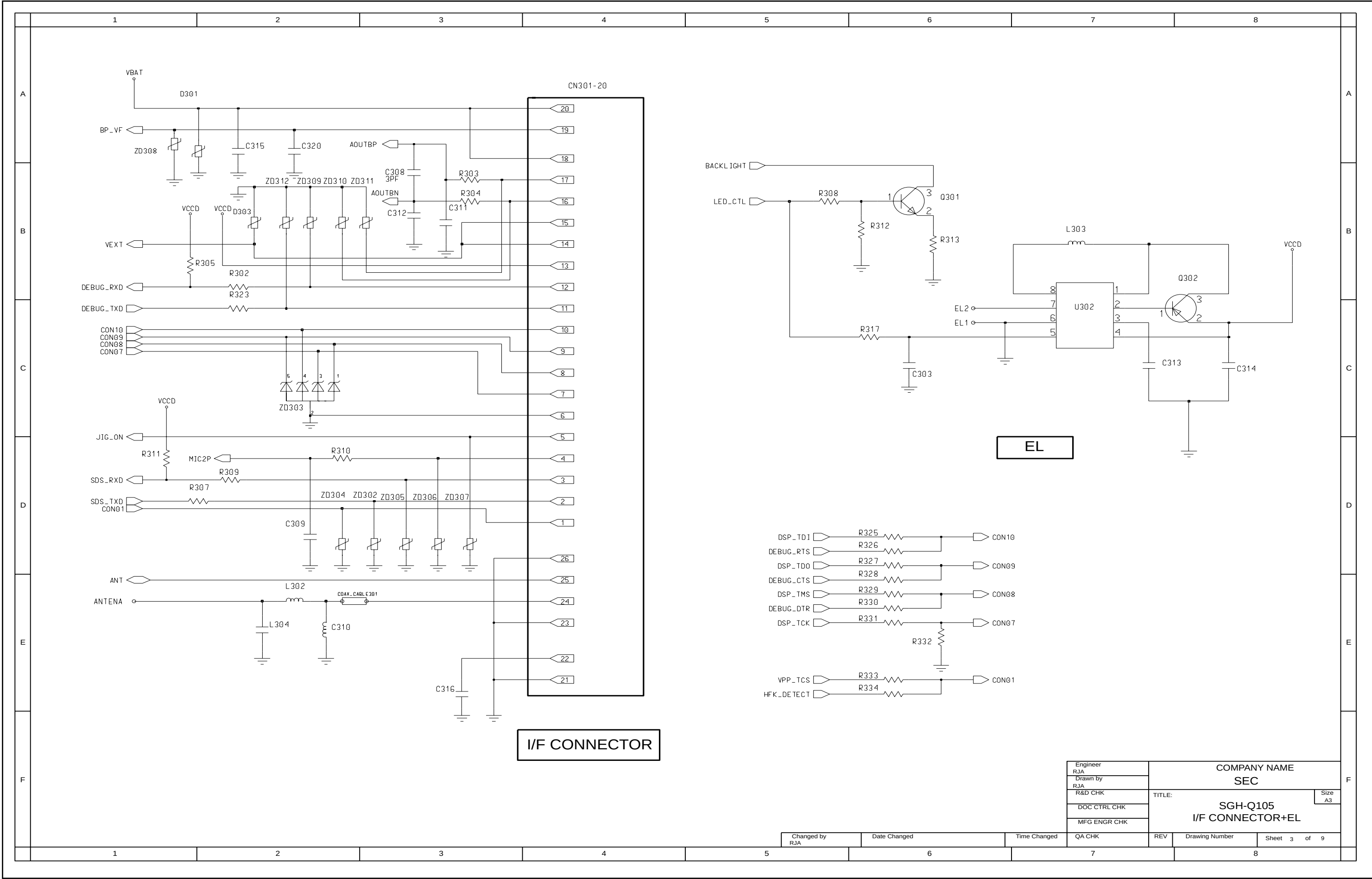
5-15. Power Circuit Diagram



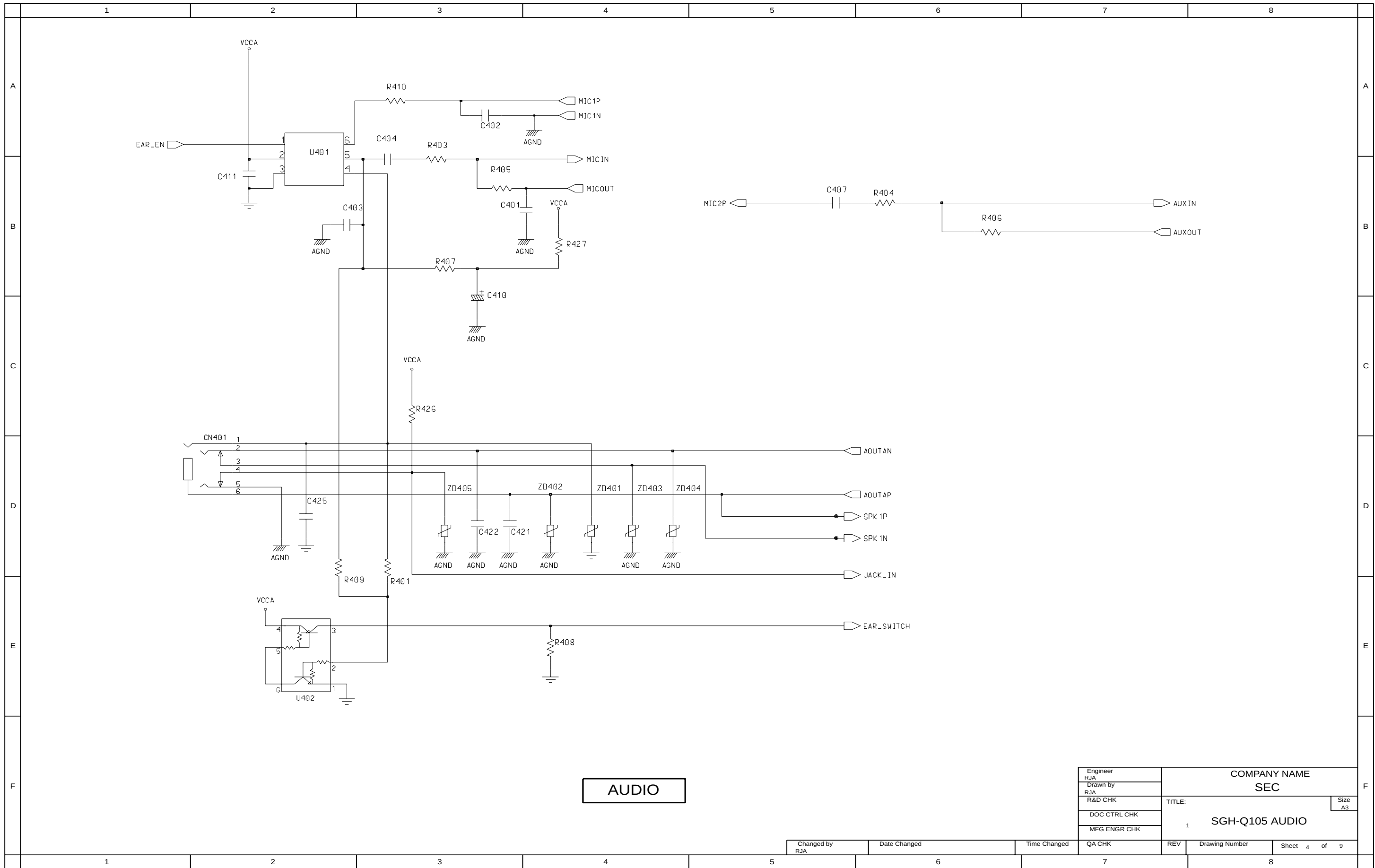
5-16. Charger & B'D-TO-B'D Connector Circuit Diagram



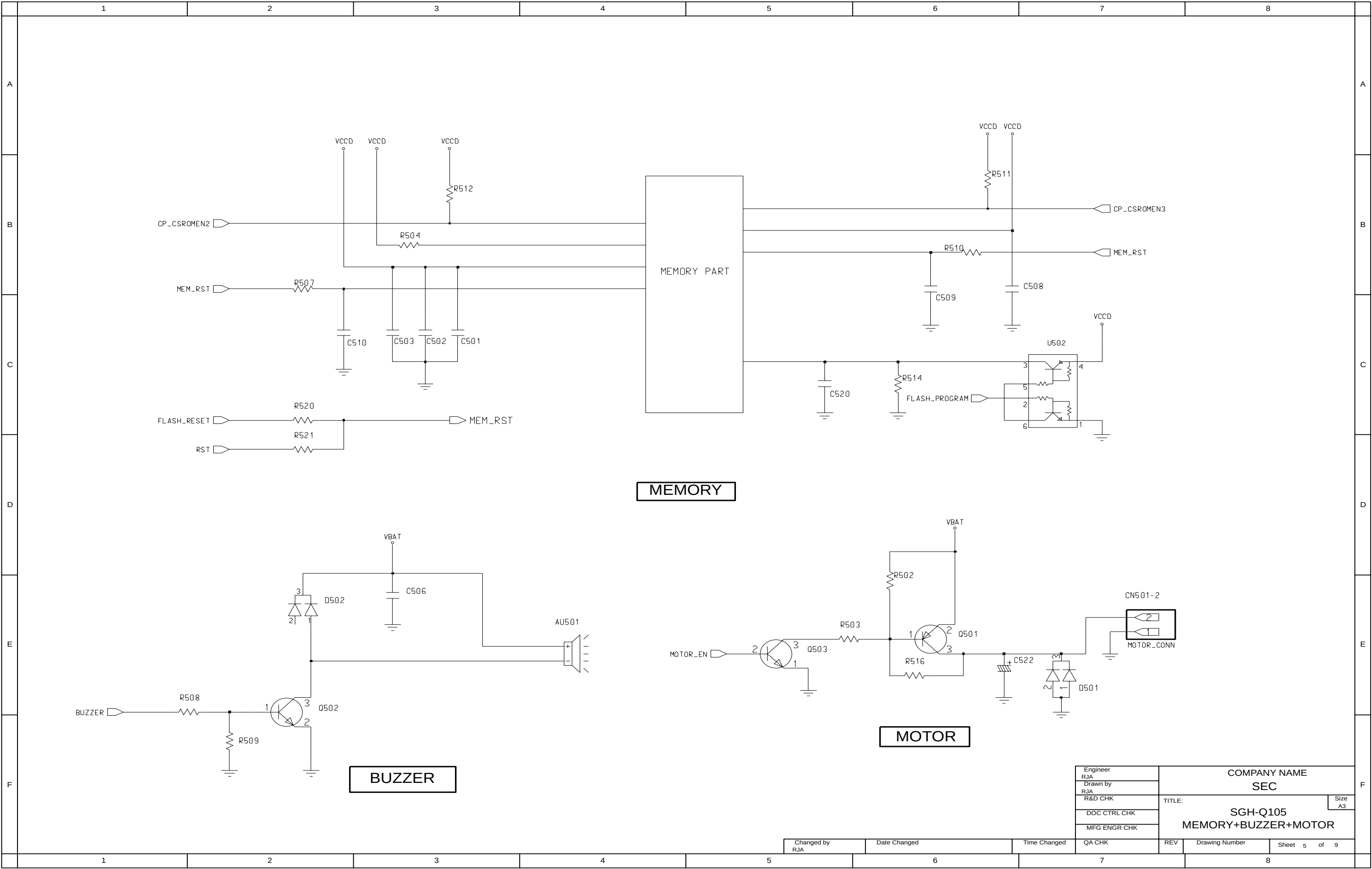
5-17. EL & I/F Connector Circuit Diagram



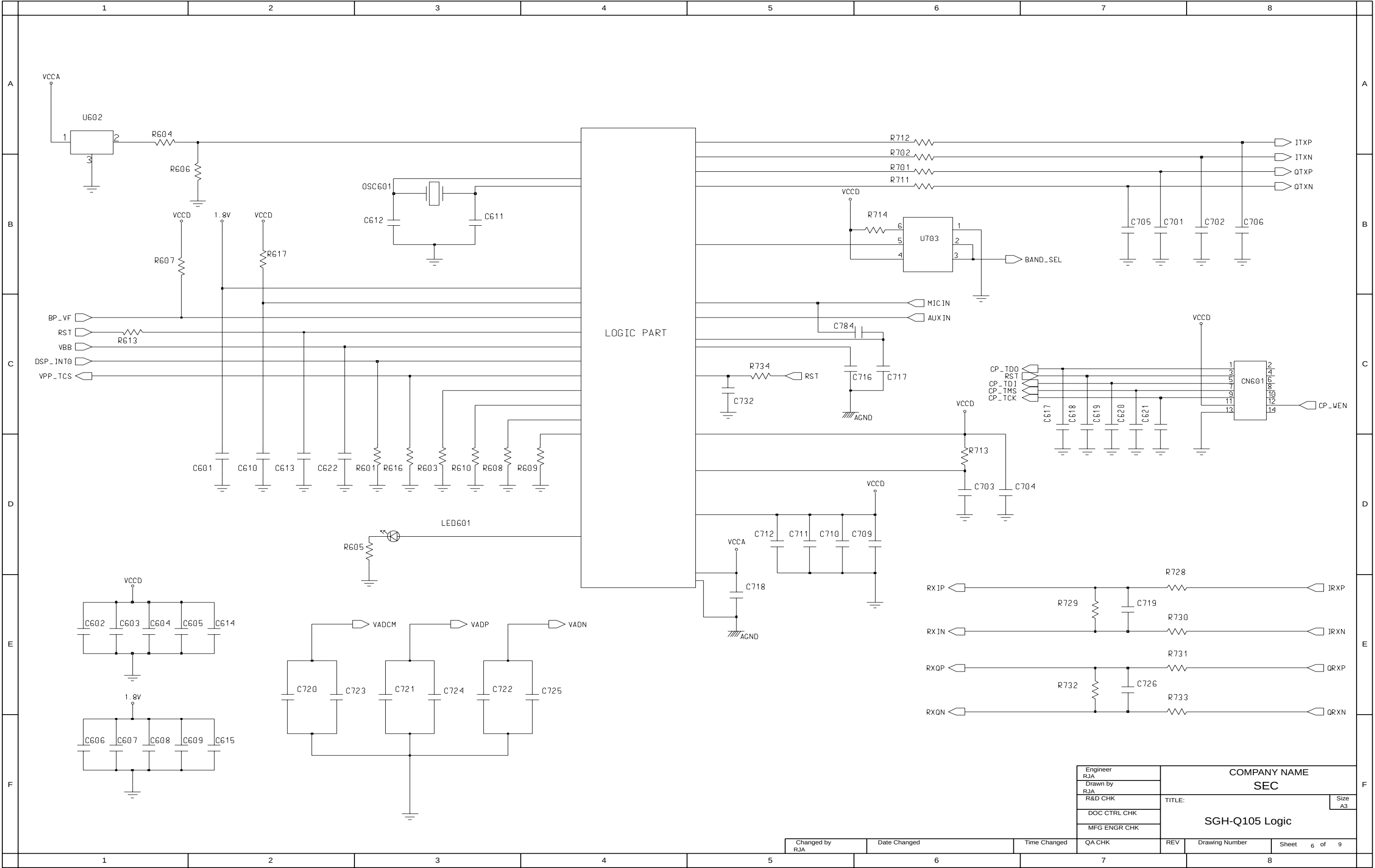
5-18. Audio Circuit Diagram

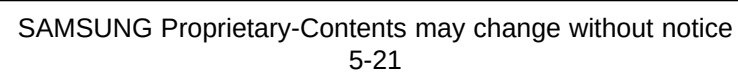


5-19. Motor & Buzzer & Memory Circuit Diagram

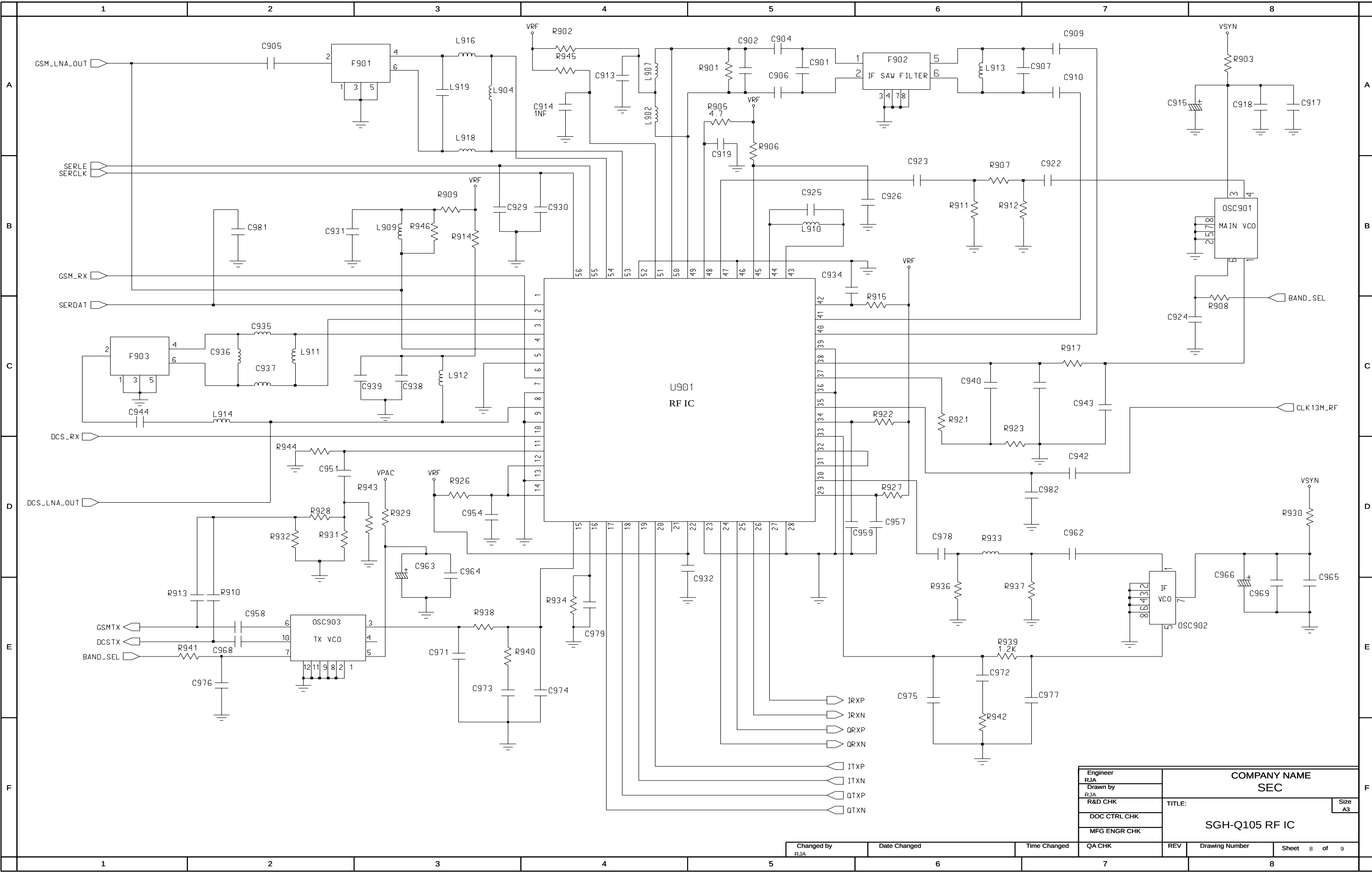


5-20. Logic Circuit Diagram





5-22. RF IC Circuit Diagram



5-23. Transmitter & Receiver Circuit Diagram

