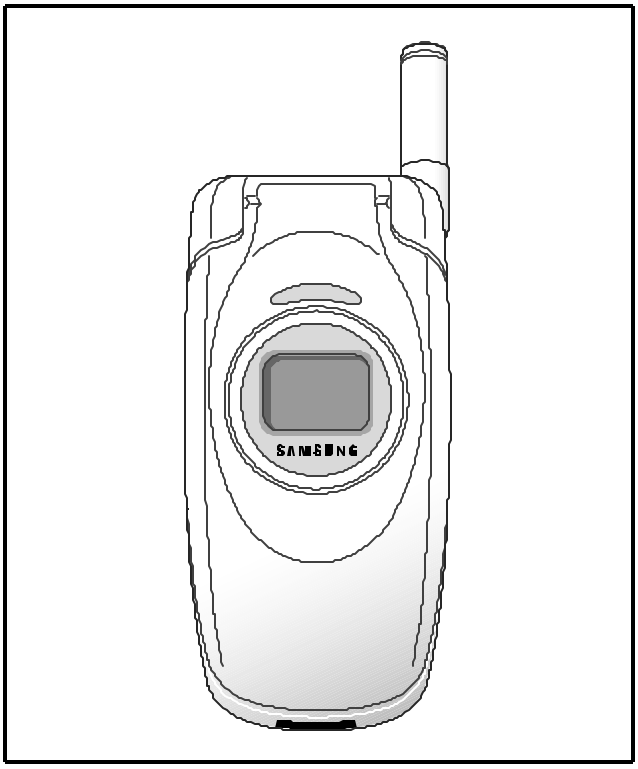
SAMSUNG

GSM TELEPHONE

SGH-S300

SERVICE Manual

GSM TELEPHONE



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2. Exploded Views and Parts List
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1. SGH-S300 Specification

1. GSM General Specification

	GSM 900 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	GSM 900
5	33i 2 dBm
6	31i 2 dBm
7	29i 2 dBm
8	27i 2 dBm
9	25i 2 dBm
10	23i 2 dBm
11	21i 2 dBm
12	19i 2 dBm
13	17i 2 dBm
14	15i 2 dBm
15	13i 2 dBm
16	11i 3 dBm
17	9i 3dBm
18	7i 3 dBm
19	5i 3 dBm

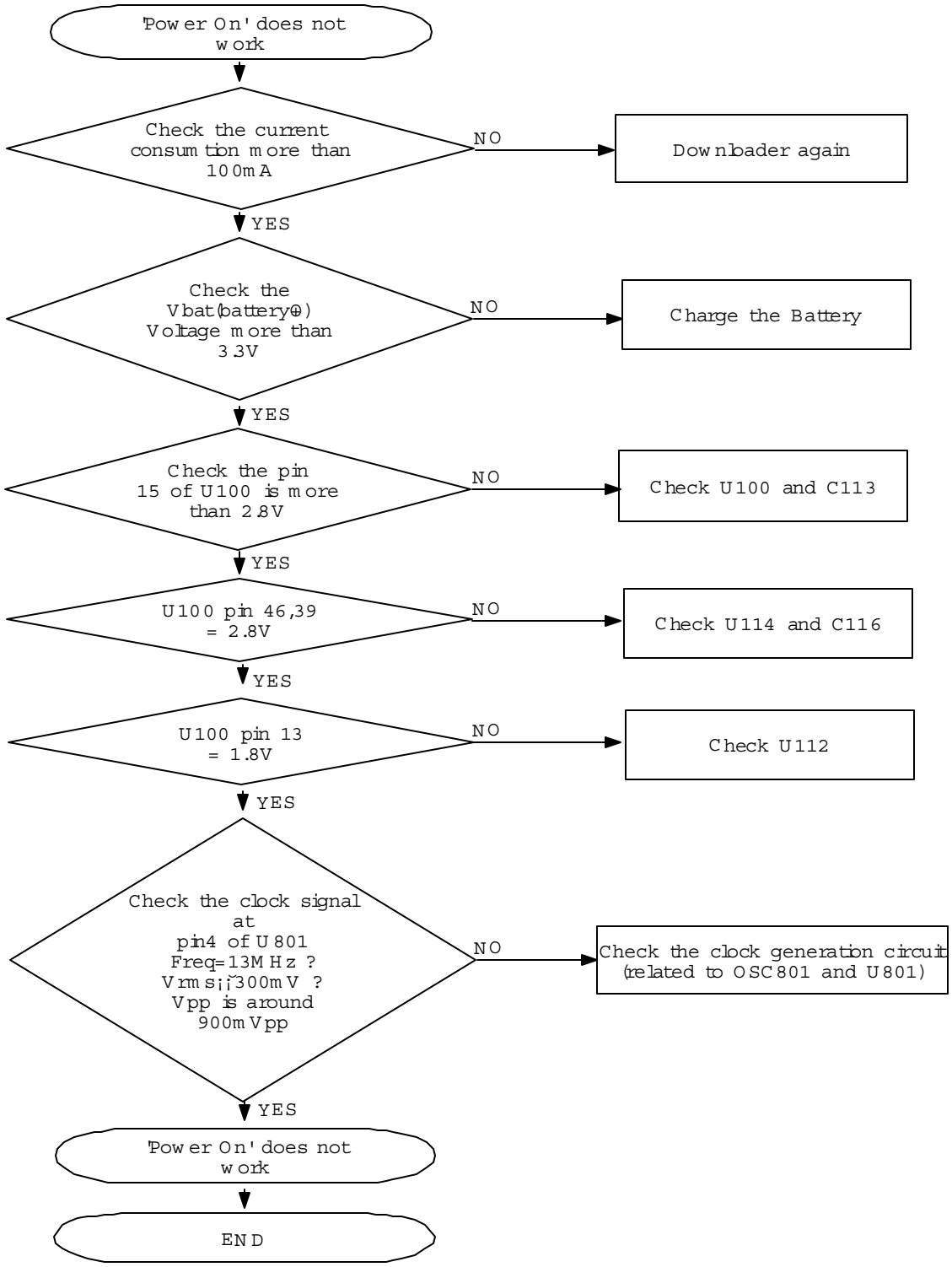
TX Power control level	DCS1800
0	30i 3 dBm
1	28i 3 dBm
2	26i 3 dBm
3	24i 3 dBm
4	22i 3 dBm
5	20i 3 dBm
6	18i 3 dBm
7	16i 3 dBm
8	14i 3 dBm
9	12i 4 dBm
10	10i 4 dBm
11	8i 4dBm
12	6i 4 dBm
13	4i 4 dBm
14	2i 5 dBm
15	0i 5 dBm

TX Power control level	PCS1900
0	30i 3 dBm
1	28i 3 dBm
2	26i 3 dBm
3	24i 3 dBm
4	22i 3 dBm
5	20i 3 dBm
6	18i 3 dBm
7	16i 3 dBm
8	14i 3 dBm
9	12i 4 dBm
10	10i 4 dBm
11	8i 4dBm
12	6i 4 dBm
13	4i 4 dBm
14	2i 5 dBm
15	0i 5 dBm

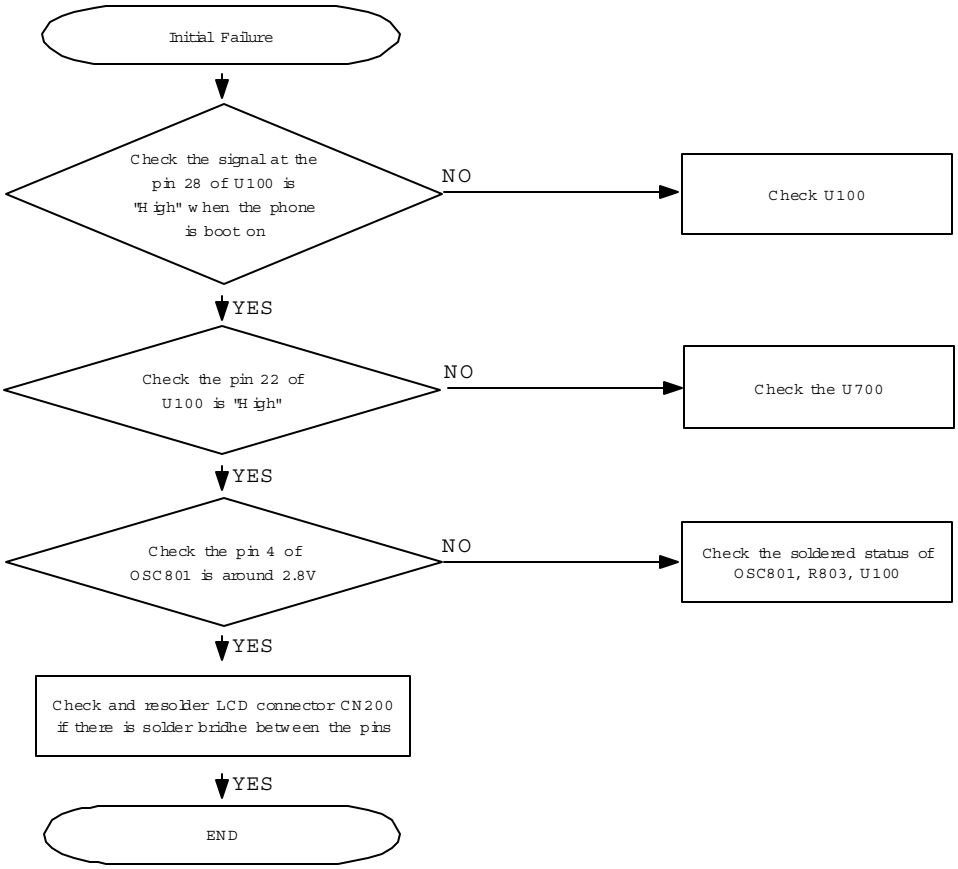
6. SGH-S300 Flow Chart of Troubleshooting and Circuit Diagrams

1. Baseband

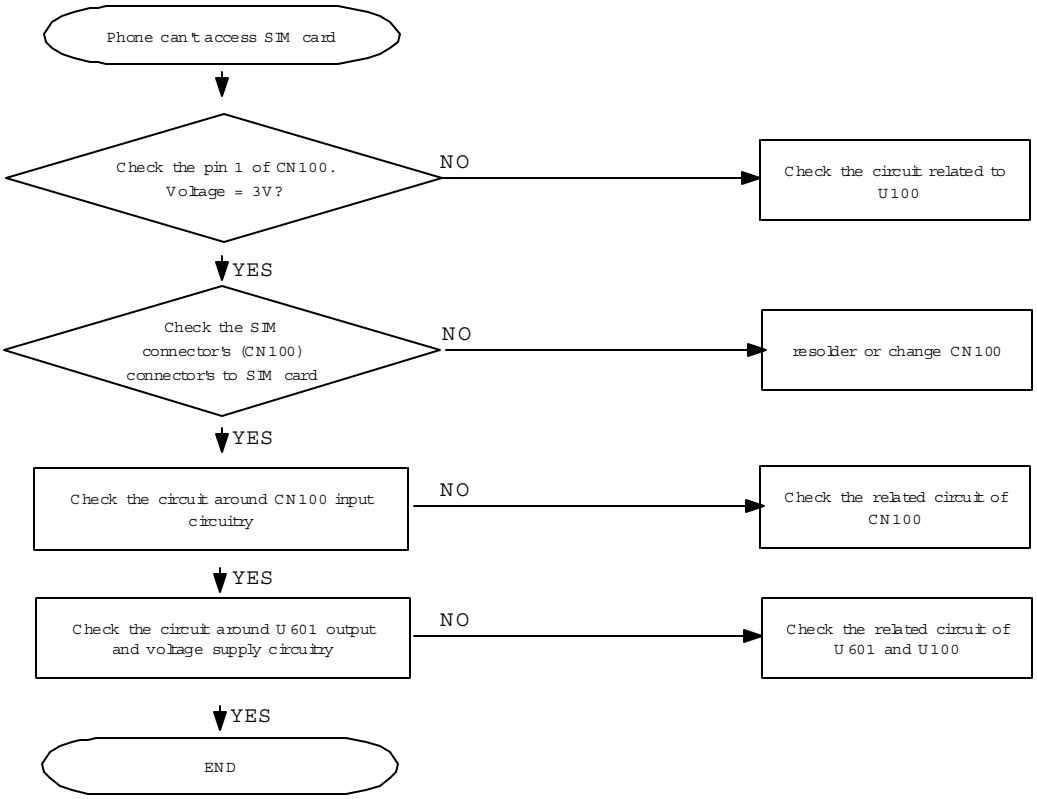
1. Power ON



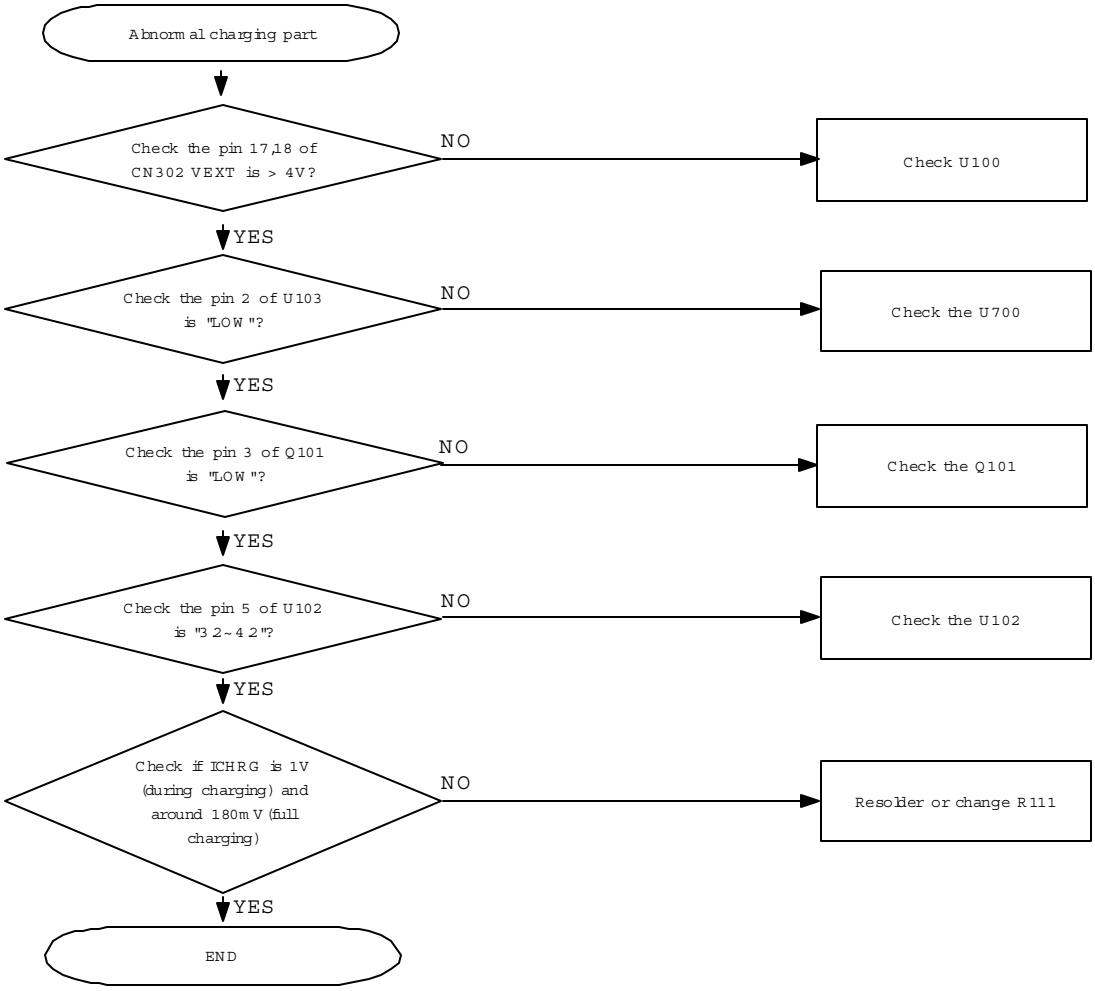
2. Initial



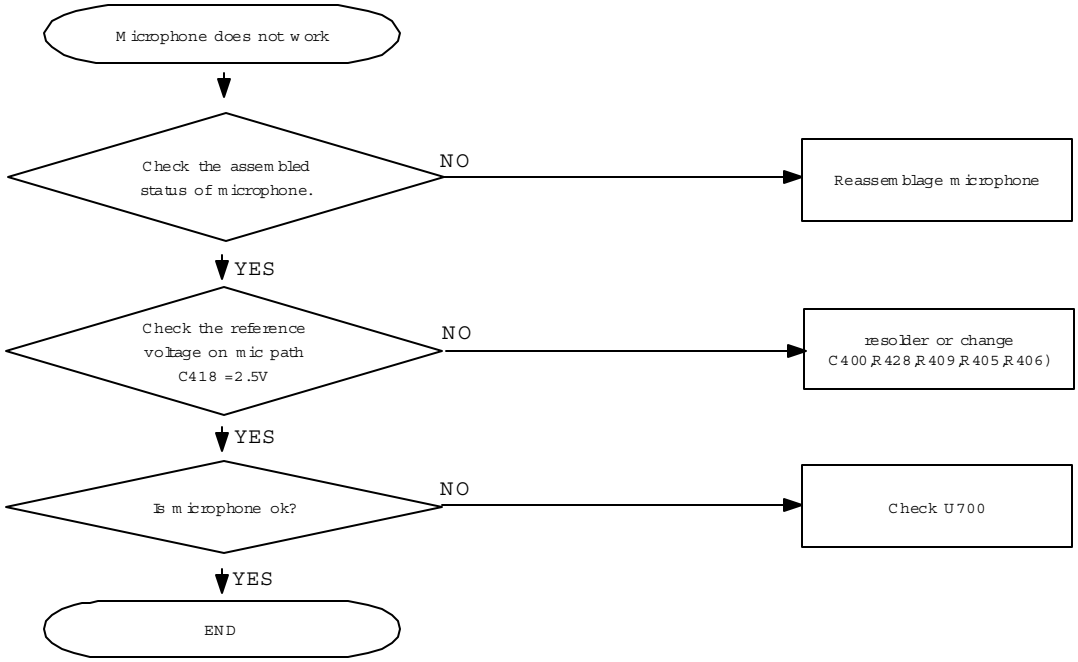
3. Sim Part



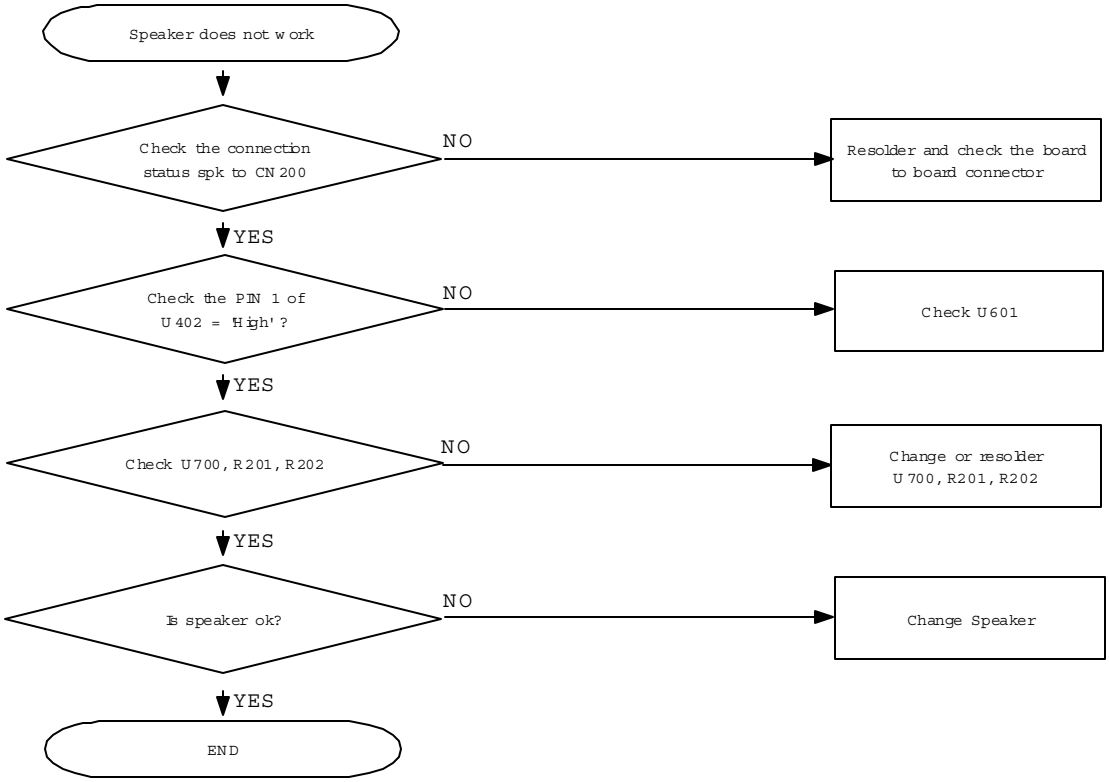
4. Charging Part



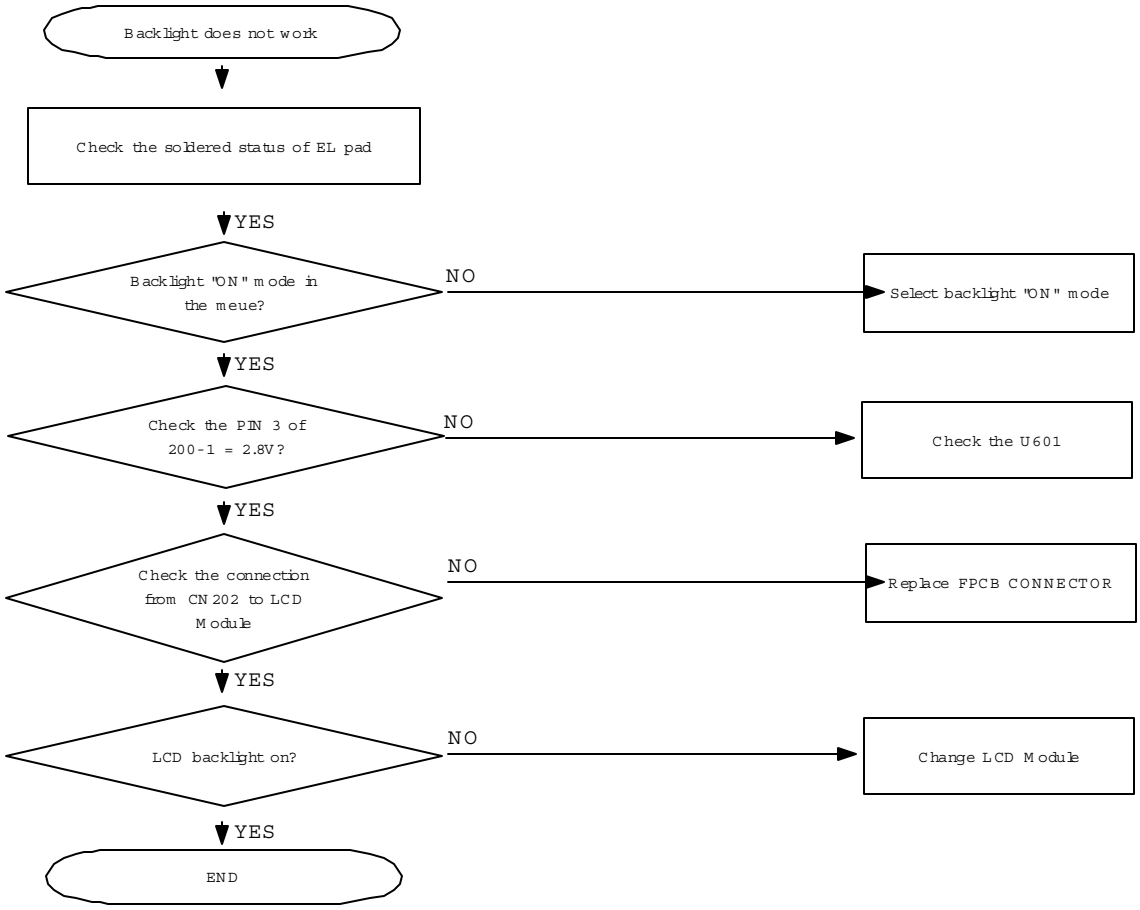
5. Microphone Part



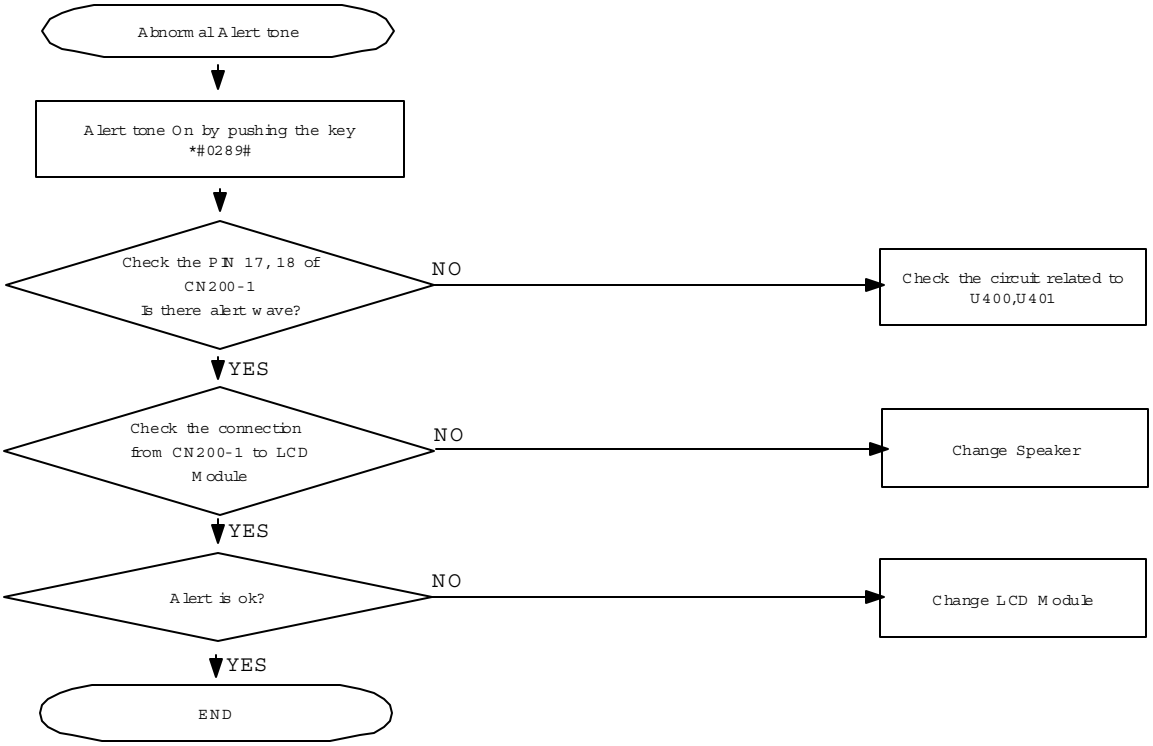
6. Speaker Part



7. Back Light

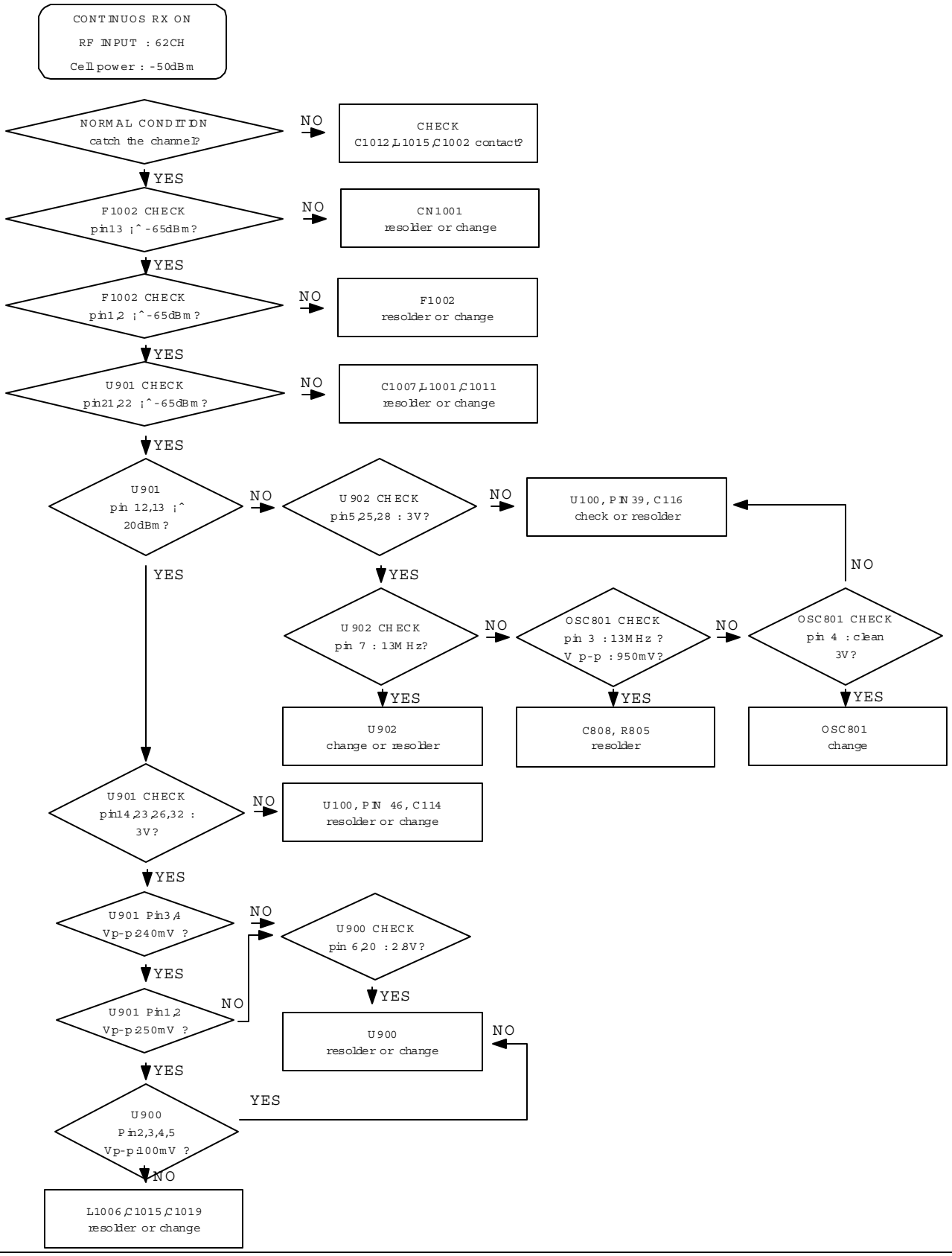

Backlight does not work
Check the soldered status of EL pad
YES
Backlight "ON" mode in the meue?
NO
Select backlight "ON" mode
YES
Check the PIN 3 of 200-1 = 2.8V?
NO
Check the U601
YES
Check the connection from CN202 to LCD Module
NO
Replace FPCB CONNECTOR
YES
LCD backlight on?
NO
Change LCD Module
YES
END

8 Alert Tone

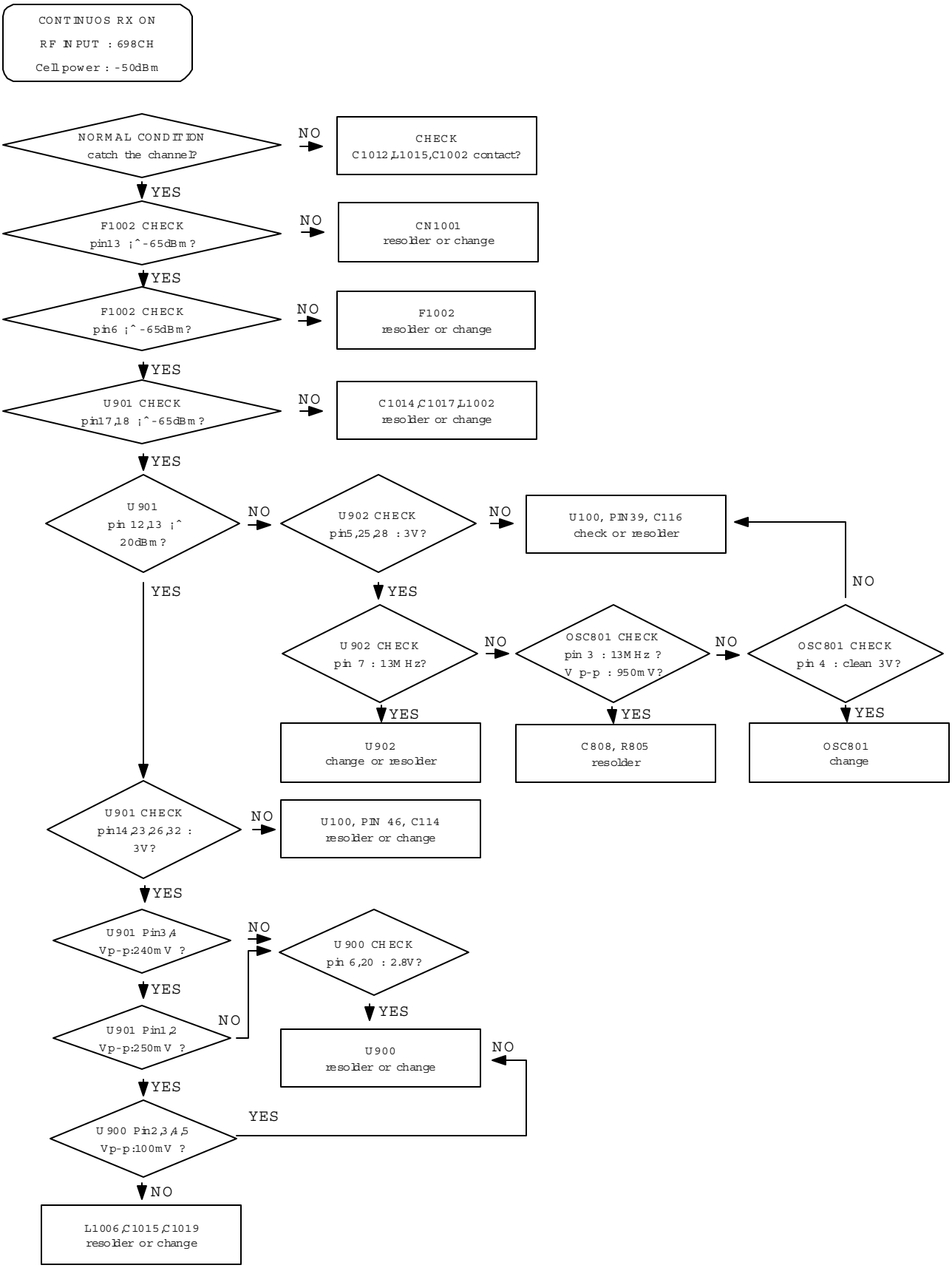

Abnormal Alert tone
Alert tone On by pushing the key
*#0289#
Check the PIN 17, 18 of
CN200-1
Is there alert wave?
NO
Check the circuit related to
U400,U401
YES
Check the connection
from CN200-1 to LCD
Module
NO
Change Speaker
YES
Alert is ok?
NO
Change LCD Module
YES
END

2.RF

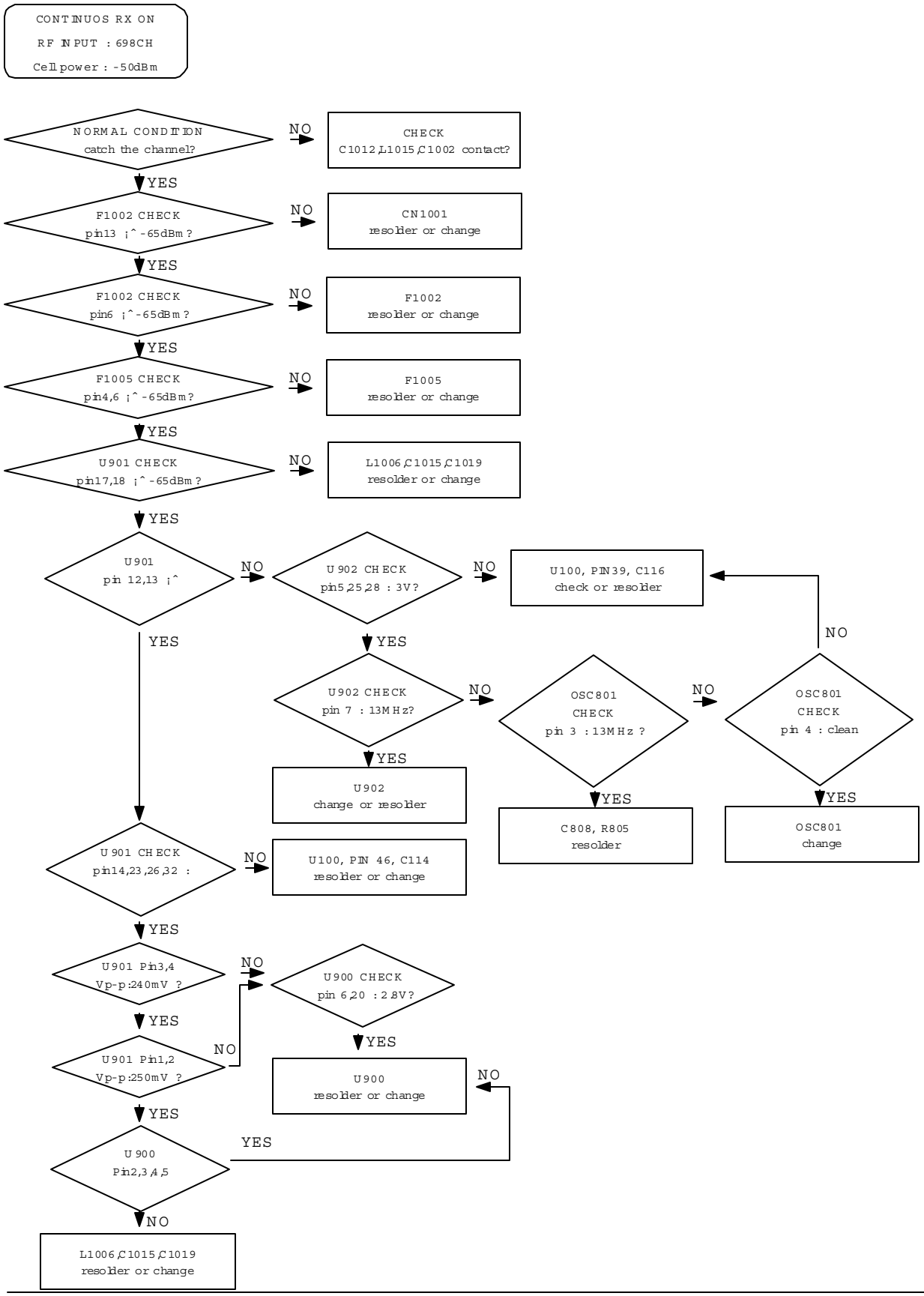
1. GSM Receiver



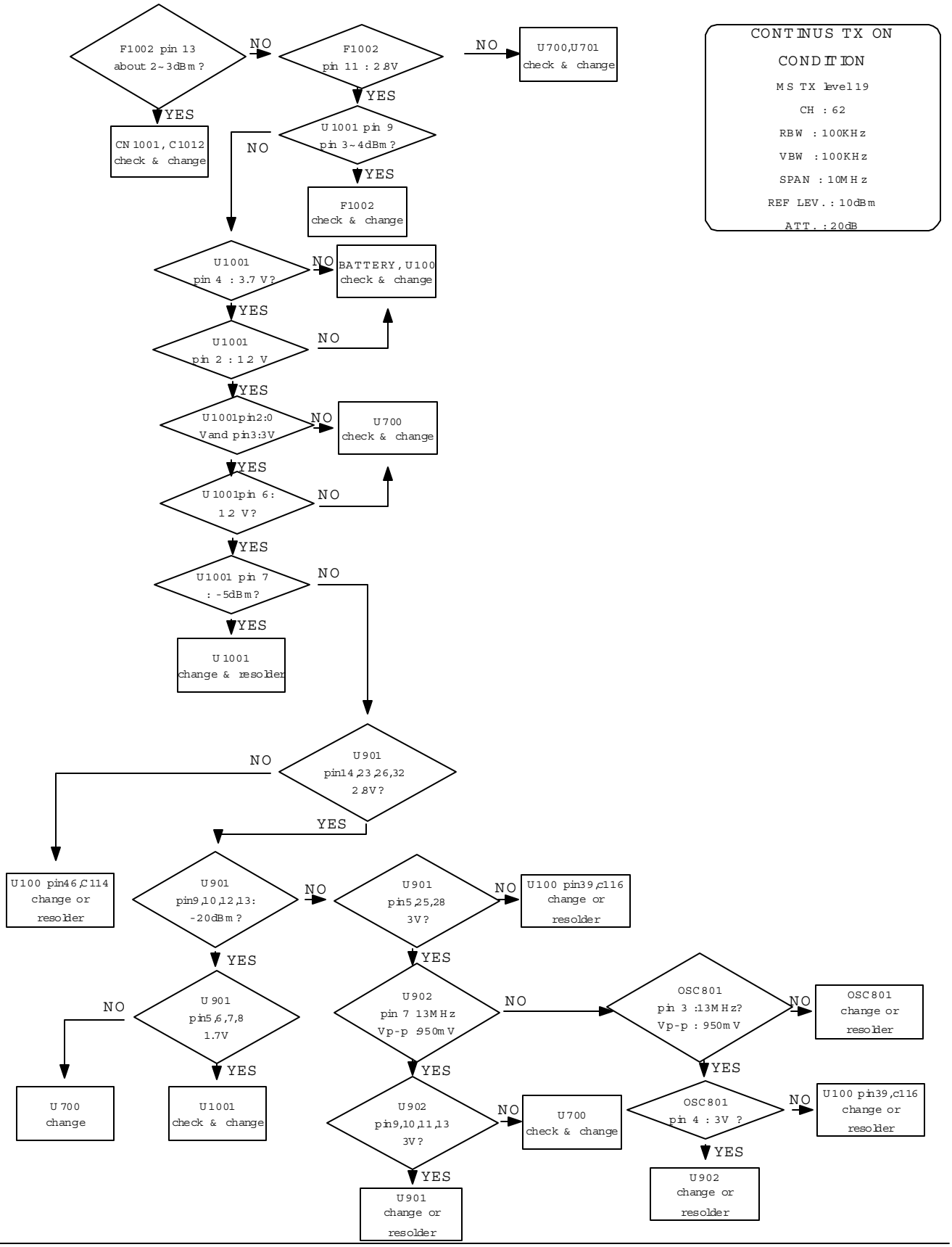
2. DCS Receiver



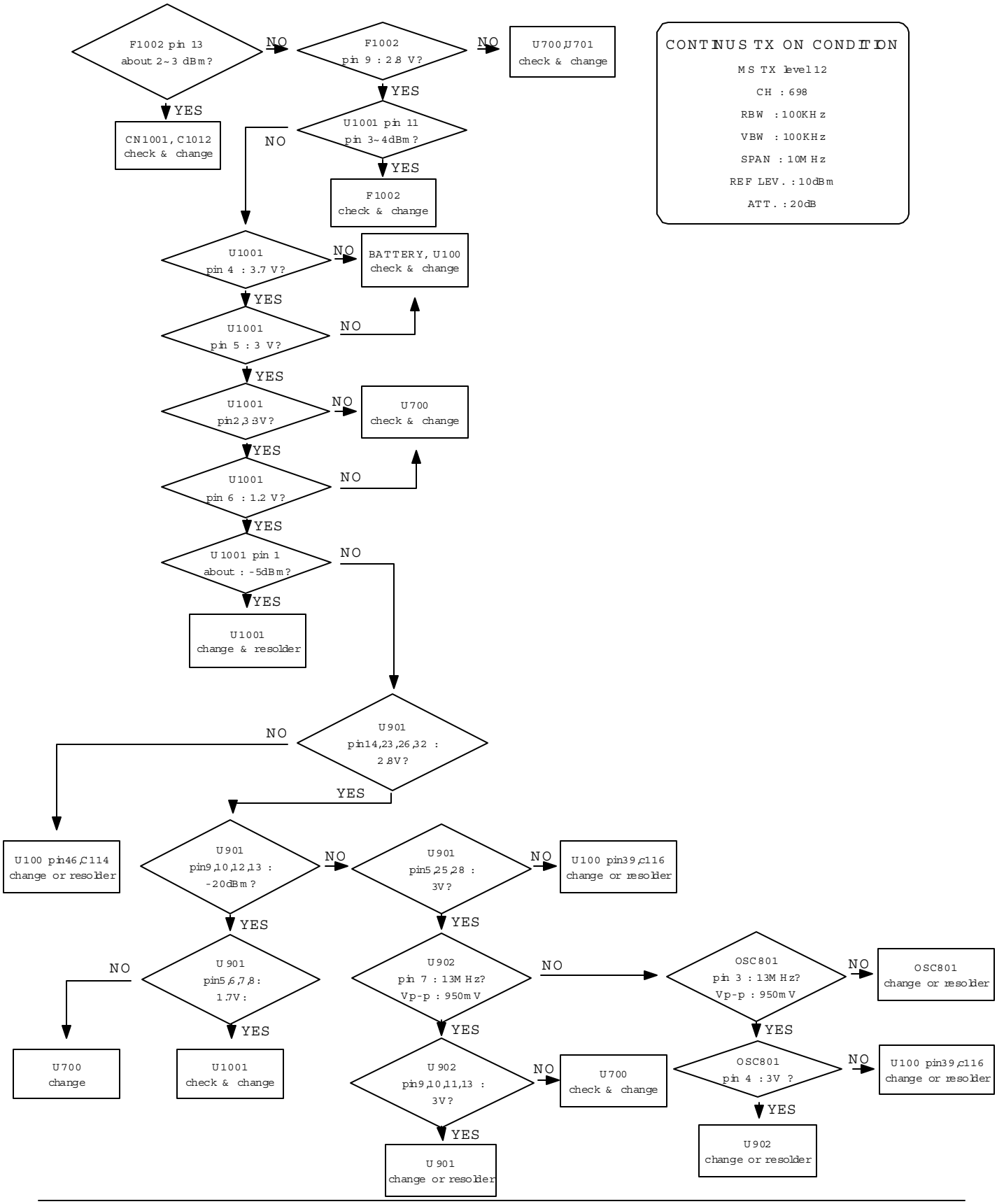
3. PCS Receiver



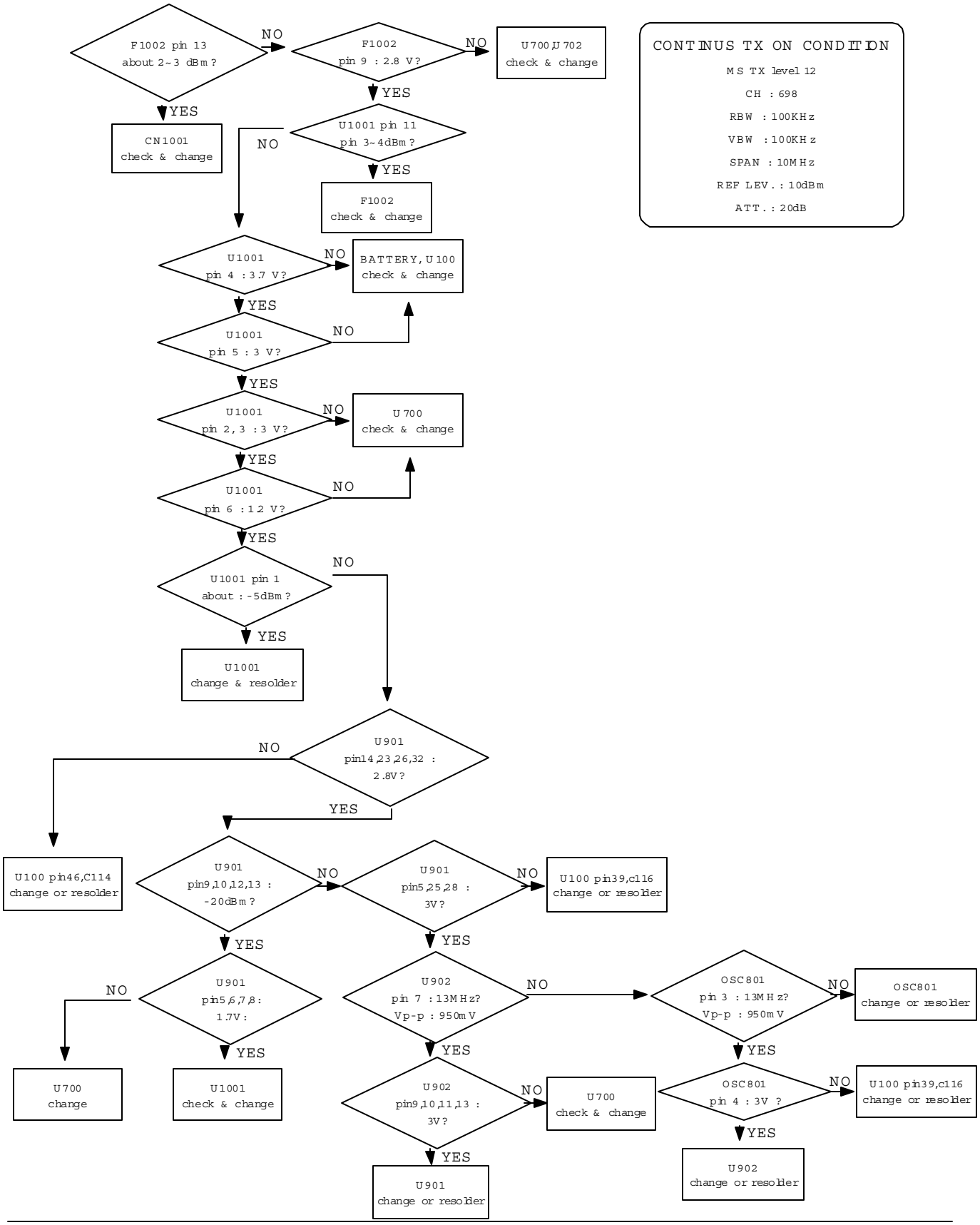
4. GSM Transmitter

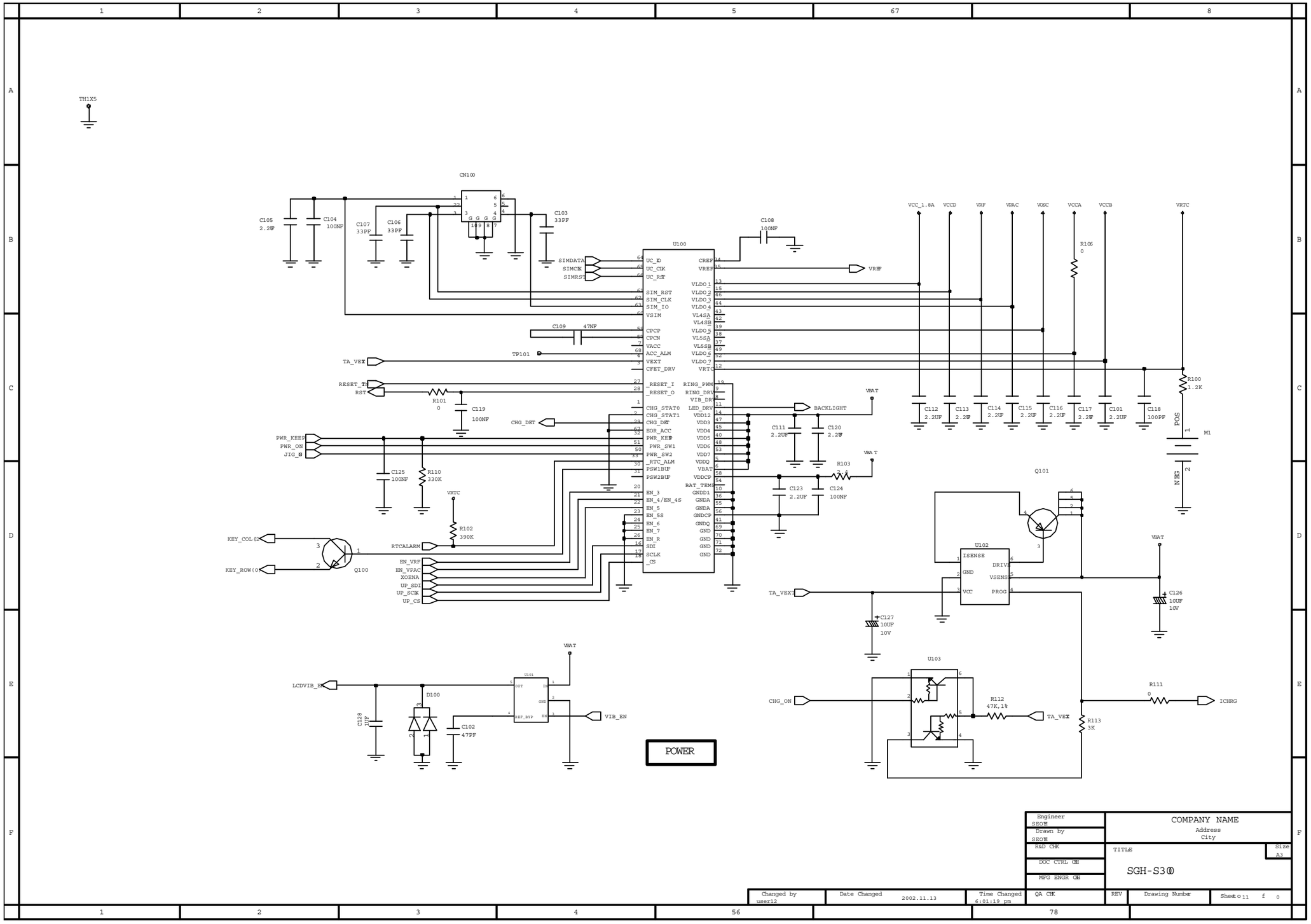


5. DCS Transmitter



6. PCS Transmitter




TH1X5
CN100
C105 2.2UF
C104 100NF
C107 33PF
C106 33PF
C103 33PF
C108 100NF
U100
SIMDATA
SIMCLK
SIMRST
VRHF
VCC_1.8A
VCCD
VRF
VPAC
VOSC
VCCA
VCCB
VRTC
R106 0
C109 47NF
TP101
TA_VEXT
RESET_TH
RST
R101 0
C119 100NF
CHG_DET
PWR_KEEP
PWR_ON
JIG_ON
C125 100NF
R110 330K
VRTC
R102 390K
KEY_COL02
KEY_ROW(0
Q100
RTCALARM
EN_VRF
EN_VPAC
XOENA
UP_SDI
UP_SCLK
UP_CS
VBAT
BACKLIGHT
C111 2.2UF
C120 2.2UF
R103 2.4
C123 2.2UF
C124 100NF
C112 2.2UF
C113 2.2UF
C114 2.2UF
C115 2.2UF
C116 2.2UF
C117 2.2UF
C101 2.2UF
C118 100PF
R100 1.2K
POS
M1
NEG
Q101
U102
ISENSE
GND
VCC
DRIVE
VSENS
PROG
C126 10UF 10V
C127 10UF 10V
LCDVIB_EN
D100
C128 100PF
C102 47PF
U101
VIB_EN
POWER
U103
CHG_ON
R112 47K,1%
R113 3K
R111 0
ICHRG
Engineer SEOH
Drawn by SEOH
R&D CHK
DOC CTRL CHK
MFG ENGR CHK
COMPANY NAME
Address
City
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Drawing Number
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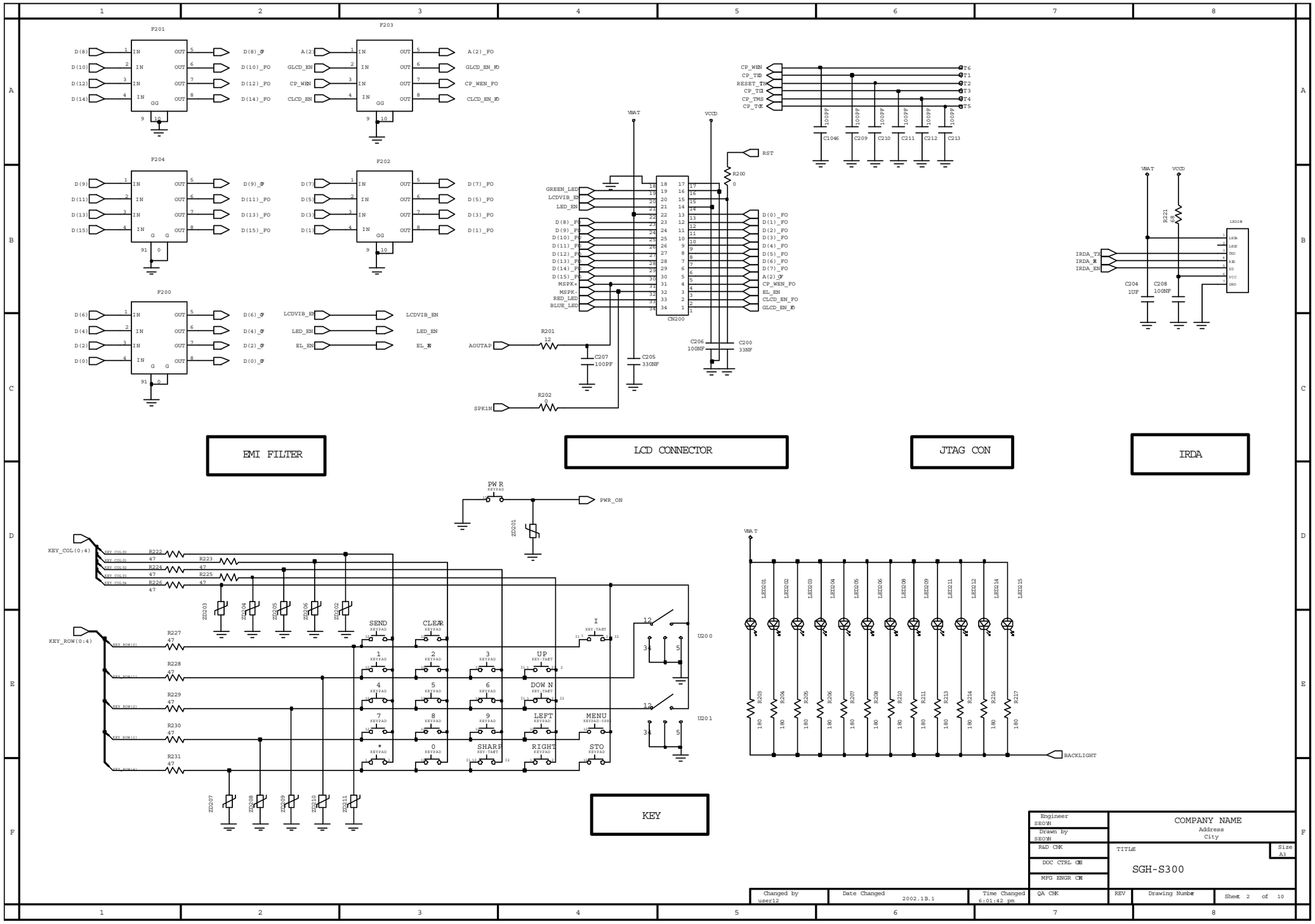
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LCD CONNECTOR
JTAG CON
IRDA
KEY
F201
F203
F204
F202
F200
CN200
U200
U201
VBAT
VCCD
RST
PWR_ON
BACKLIGHT
KEY_COL(0:4)
KEY_ROW(0:4)
SEND
CLEAR
UP
DOWN
LEFT
RIGHT
MENU
STO
SHARP
Engineer SEOYH
Drawn by SEOYH
R&D CHK
DOC CTRL CHK
MFG ENGR CHK
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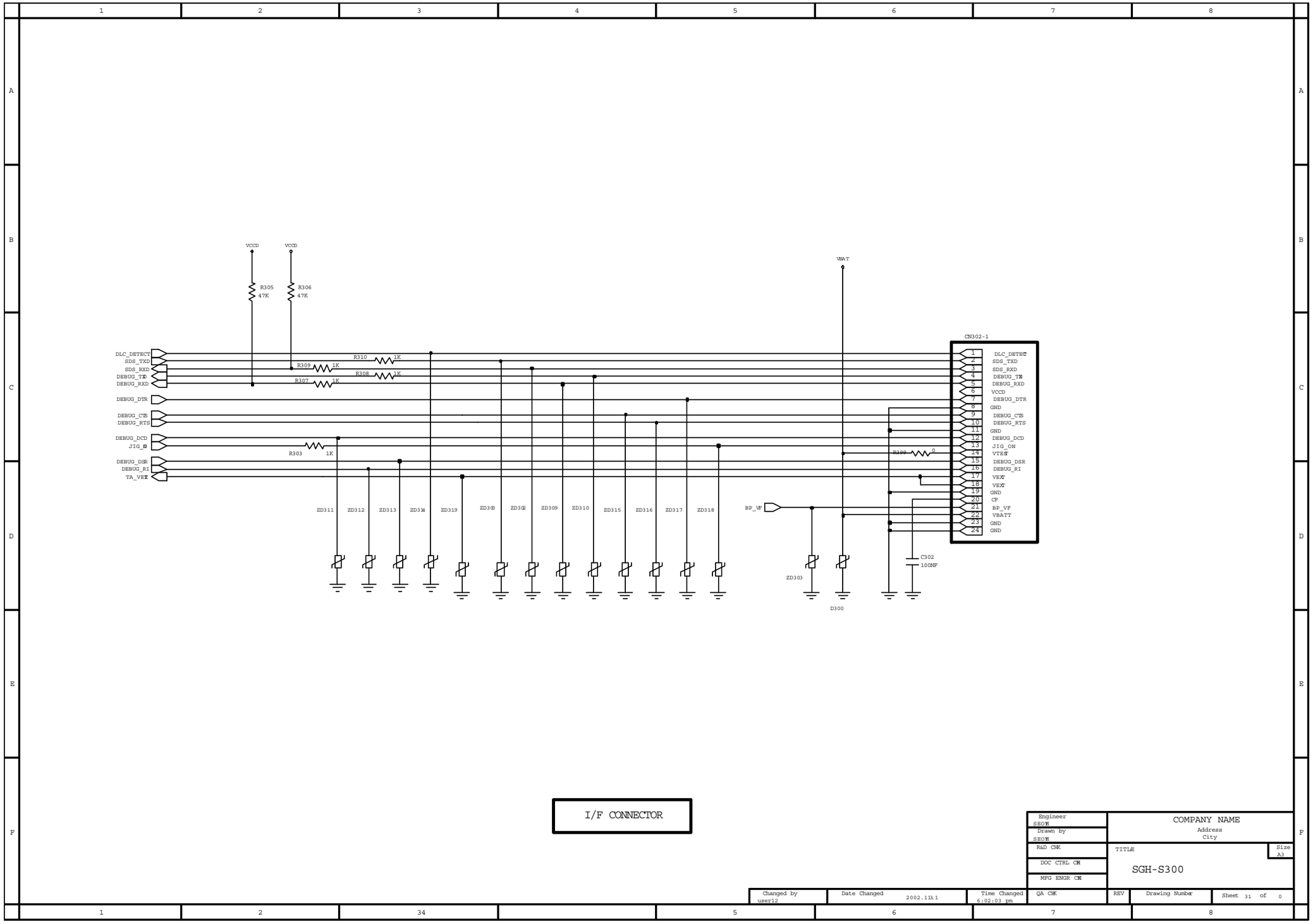
Sheet 2 of 10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VCCD
VBAT
R305 47K
R306 47K
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SDS_TXD
SDS_RXD
DEBUG_TXD
DEBUG_RXD
DEBUG_DTR
DEBUG_CTS
DEBUG_RTS
DEBUG_DCD
JIG_ON
DEBUG_DSR
DEBUG_RI
TA_VEXT
R310 1K
R309 1K
R308 1K
R307 1K
R303 1K
R299 0
BP_VF
CN302-1
1 DLC_DETECT
2 SDS_TXD
3 SDS_RXD
4 DEBUG_TXD
5 DEBUG_RXD
6 VCCD
7 DEBUG_DTR
8 GND
9 DEBUG_CTS
10 DEBUG_RTS
11 GND
12 DEBUG_DCD
13 JIG_ON
14 VTEST
15 DEBUG_DSR
16 DEBUG_RI
17 VEXT
18 VEXT
19 GND
20 CF
21 BP_VF
22 VBATT
23 GND
24 GND
ZD311
ZD312
ZD313
ZD314
ZD319
ZD300
ZD302
ZD309
ZD310
ZD315
ZD316
ZD317
ZD318
ZD303
D300
C302 100NF
I/F CONNECTOR
Engineer SEOM
Drawn by SEOM
R&D CHK
DOC CTRL CHK
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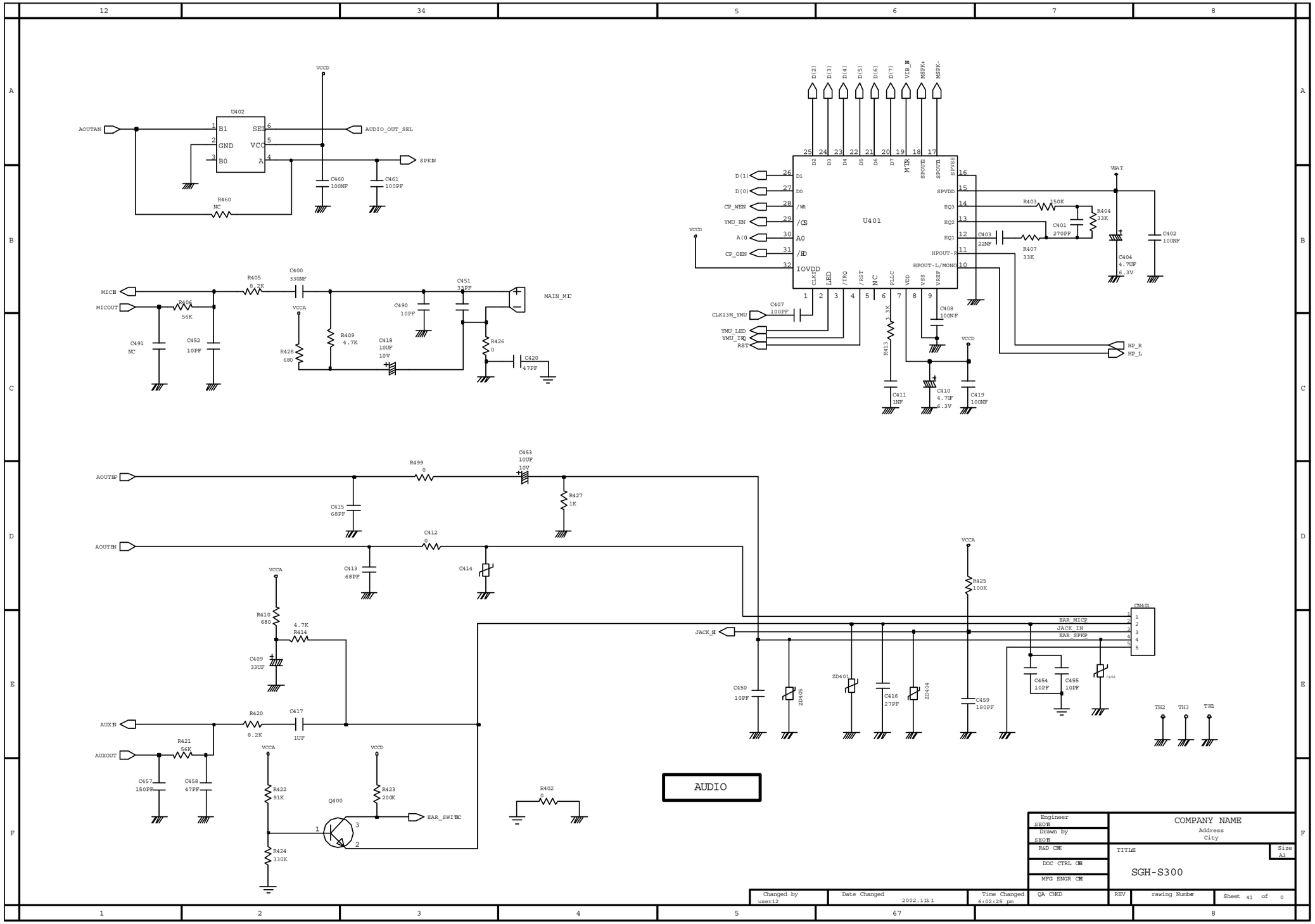
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B1
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B0
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VCC
A
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SPKN
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C461 100PF
R460 NC
MICN
MICOUT
R405 8.2K
C400 330NF
R406 56K
C491 NC
C452 10PF
VCCA
R428 680
R409 4.7K
C418 10UF 10V
C490 10PF
C451 33PF
MAIN_MIC
R426 0
C420 47PF
AOUTBP
AOUTBN
R499 0
C453 10UF 10V
C415 68PF
R427 1K
C412 0
C413 68PF
C414
R410 680
4.7K R414
C409 33UF
AUXIN
AUXOUT
R420 8.2K
C417 1UF
R421 56K
C457 150PF
C458 47PF
R422 91K
R424 330K
Q400
R423 200K
EAR_SWITCH
R402 0
D(2)
D(3)
D(4)
D(5)
D(6)
D(7)
VIB_M
MSPK+
MSPK-
U401
D(1)
D(0)
CP_WEN
YMU_EN
A(0)
CP_OEN
IOVDD
CLK13M_YMU
YMU_LED
YMU_IRQ
RST
C407 100PF
R413 3.3K
C411 1NF
C408 100NF
C410 4.7UF 6.3V
C419 100NF
VBAT
R403 150K
R404 33K
C401 270PF
C403 22NF
R407 33K
C402 100NF
C404 4.7UF 6.3V
HP_R
HP_L
JACK_N
CN401
EAR_MICP
JACK_IN
EAR_SPKP
C450 10PF
ZD405
ZD401
C416 27PF
ZD404
C459 180PF
C454 10PF
C455 10PF
TH2
TH3
TH1
AUDIO
Engineer SEOYI
Drawn by SEOYI
R&D CHK
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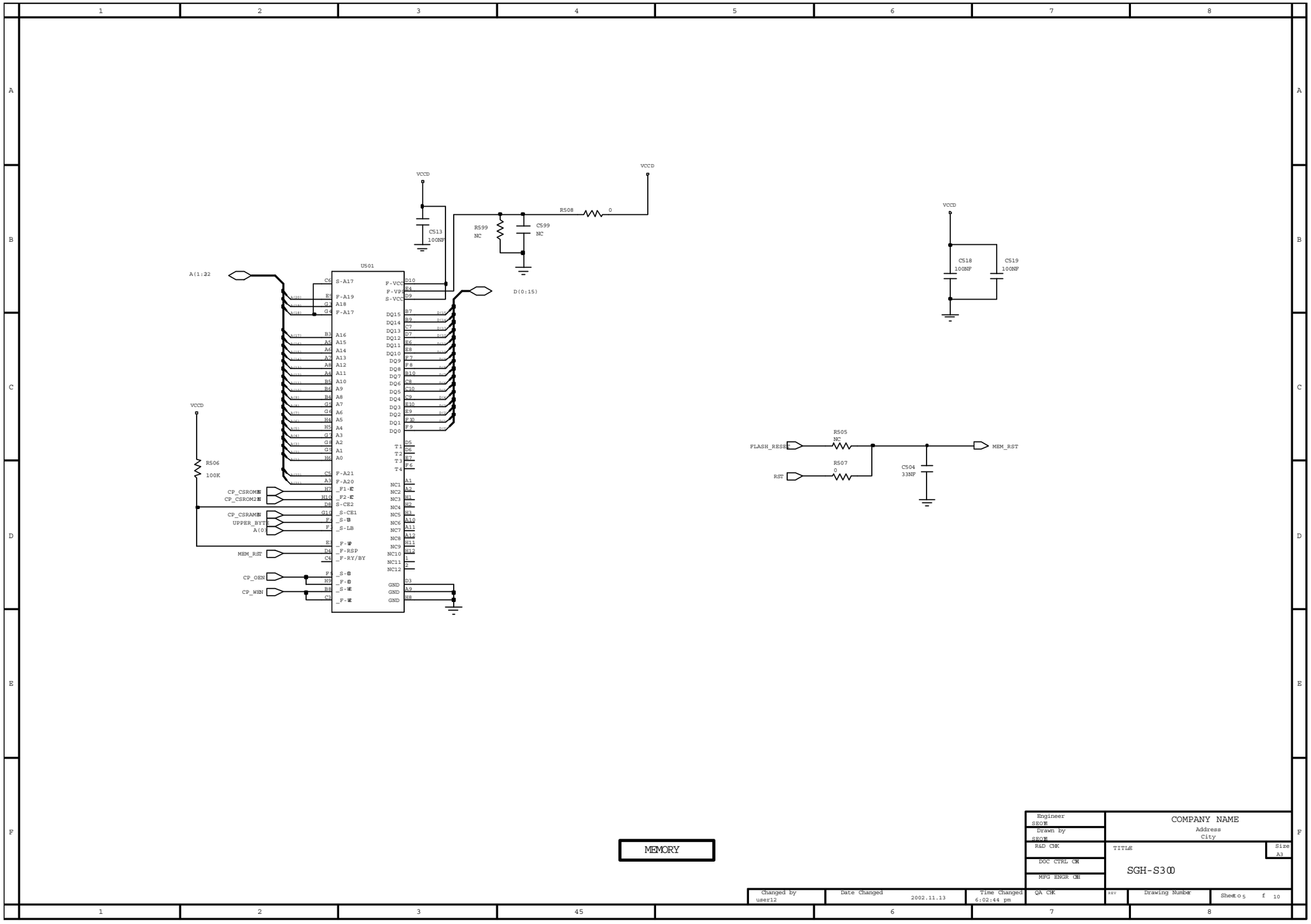
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R599
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C599
NC
U501
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F-A19
A18
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A16
A15
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
F-A21
F-A20
_F1-CE
_F2-CE
S-CE2
_S-CE1
_S-OE
_S-LB
_F-WP
_F-RSP
_F-RY/BY
_S-CE
_F-OE
_S-WE
_F-WE
F-VCC
F-VPP
S-VCC
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DQ14
DQ13
DQ12
DQ11
DQ10
DQ9
DQ8
DQ7
DQ6
DQ5
DQ4
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NC9
NC10
NC11
NC12
GND
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GND
R506
100K
CP_CSROM1EN
CP_CSROM2EN
CP_CSRAMEN
UPPER_BYTE
A(0)
MEM_RST
CP_OEN
CP_WEN
C518
100NF
C519
100NF
R505
NC
R507
0
FLASH_RESET
RST
MEM_RST
C504
33NF
MEMORY
Engineer
SEOM
Drawn by
SEOM
R&D CHK
DOC CTRL CHK
MFG ENGR CHK
COMPANY NAME
Address
City
TITLE
SGH-S300
Size
A3
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user12
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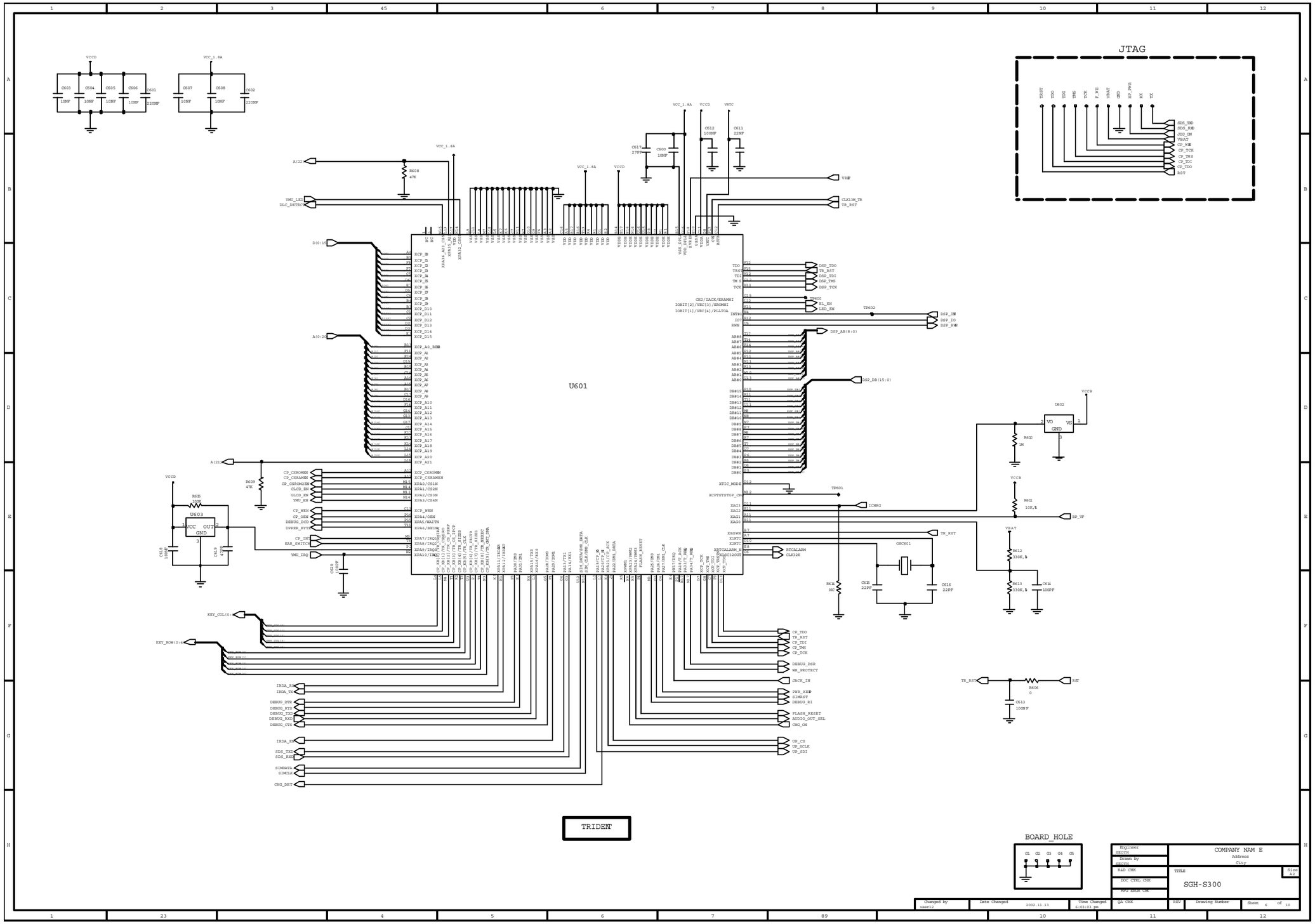
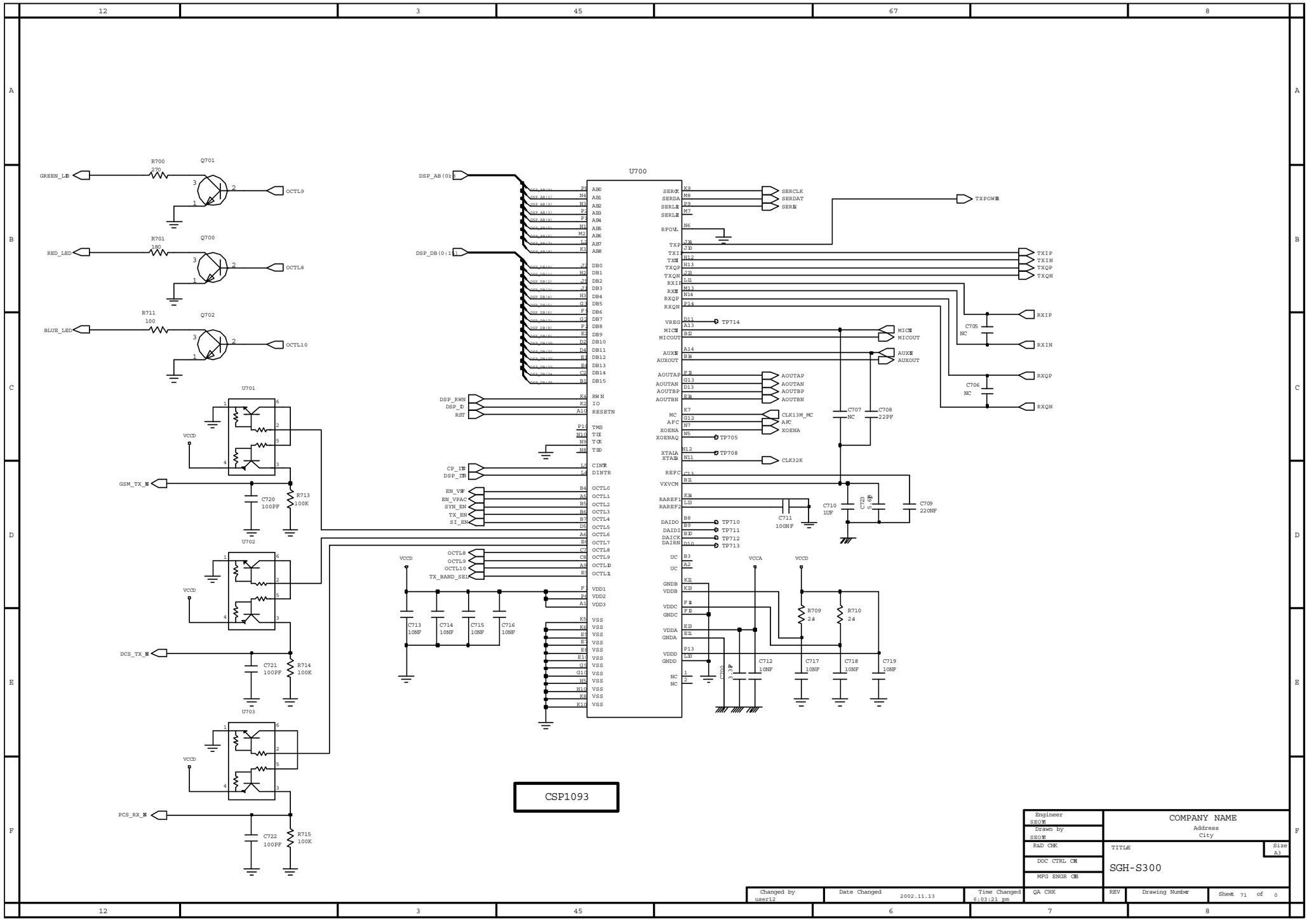

JTAG
U601
U603
U602
TRIDENT
BOARD_HOLE
COMPANY NAM E
SGH-S300


U700
CSP1093
GREEN_LED
RED_LED
BLUE_LED
OCTL9
OCTL8
OCTL10
GSM_TX_N
DCS_TX_N
PCS_RX_N
DSP_AB(0:1)
DSP_DB(0:15)
DSP_RWN
DSP_D
RST
CP_IN
DSP_IN
EN_VF
EN_VPAC
SYN_EN
TX_EN
SI_EN
TX_BAND_SEL
SERCLK
SERDAT
SERE
TXPOWER
TXIP
TXIN
TXQP
TXQN
RXIP
RXIN
RXQP
RXQN
MICE
MICOUT
AUXE
AUXOUT
AOUTAP
AOUTAN
AOUTBP
AOUTBN
CLK13M_MC
AFC
XOENA
CLK32K
TP714
TP705
TP708
TP710
TP711
TP712
TP713
VCCD
VCCA
Engineer
SEOH
Drawn by
SEOH
R&D CHK
DOC CTRL CH
MFG ENGR CH
QA CHK
COMPANY NAME
Address
City
TITLE
SGH-S300
Size
A3
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Drawing Number
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2002.11.13
Time Changed
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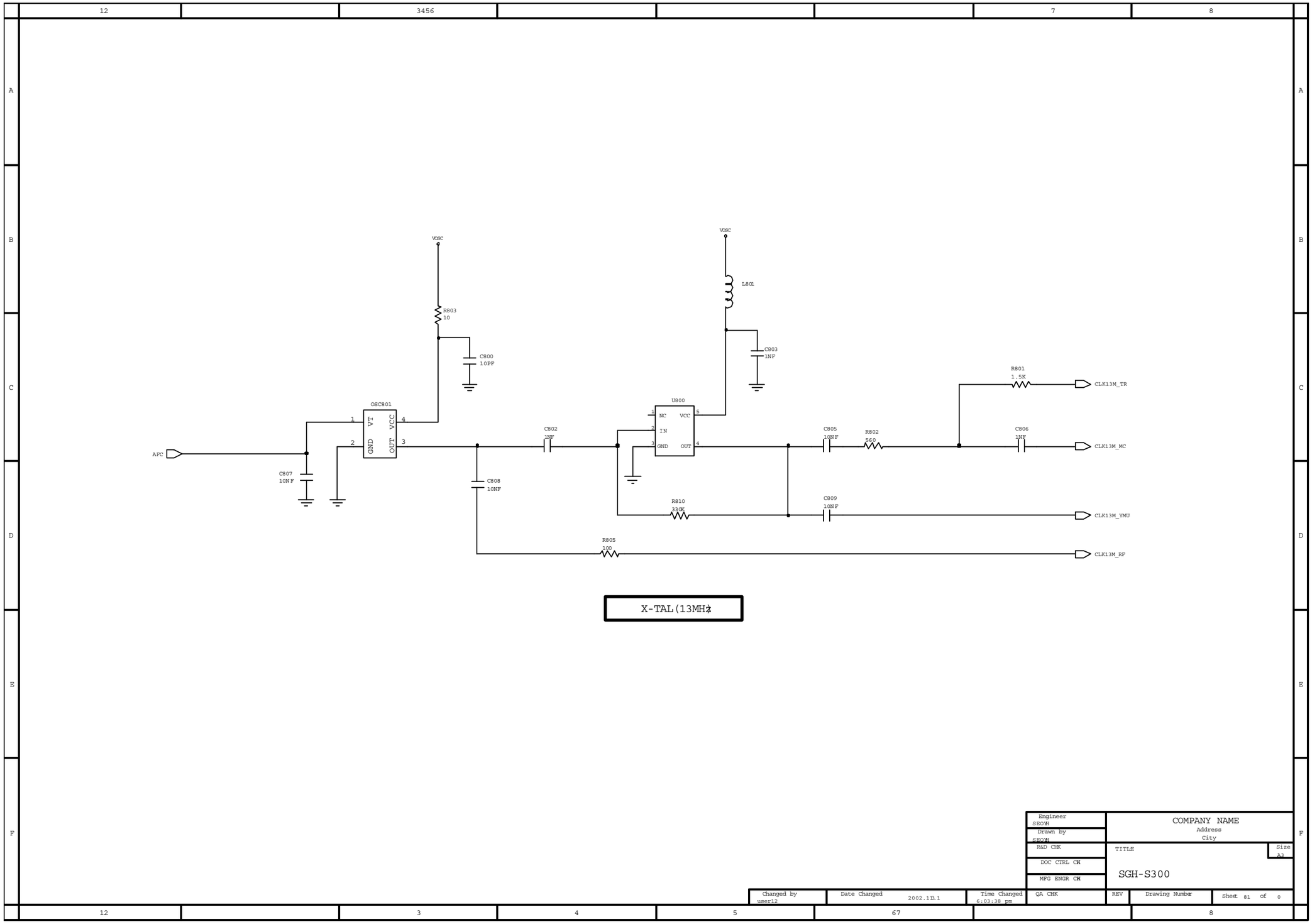
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R803
10
C800
10PF
OSC801
VT
GND
VCC
OUT
AFC
C807
10NF
C808
10NF
C802
1NF
U800
NC
IN
GND
VCC
OUT
L801
C803
1NF
C805
10NF
R802
560
R810
330K
C809
10NF
R805
100
R801
1.5K
C806
1NF
CLK13M_TR
CLK13M_MC
CLK13M_YMU
CLK13M_RF
X-TAL(13MHz)
Engineer
SEOYH
Drawn by
SEOYH
R&D CHK
DOC CTRL CH
MFG ENGR CH
COMPANY NAME
Address
City
TITLE
SGH-S300
Size
A3
Changed by
user12
Date Changed
2002.11.1
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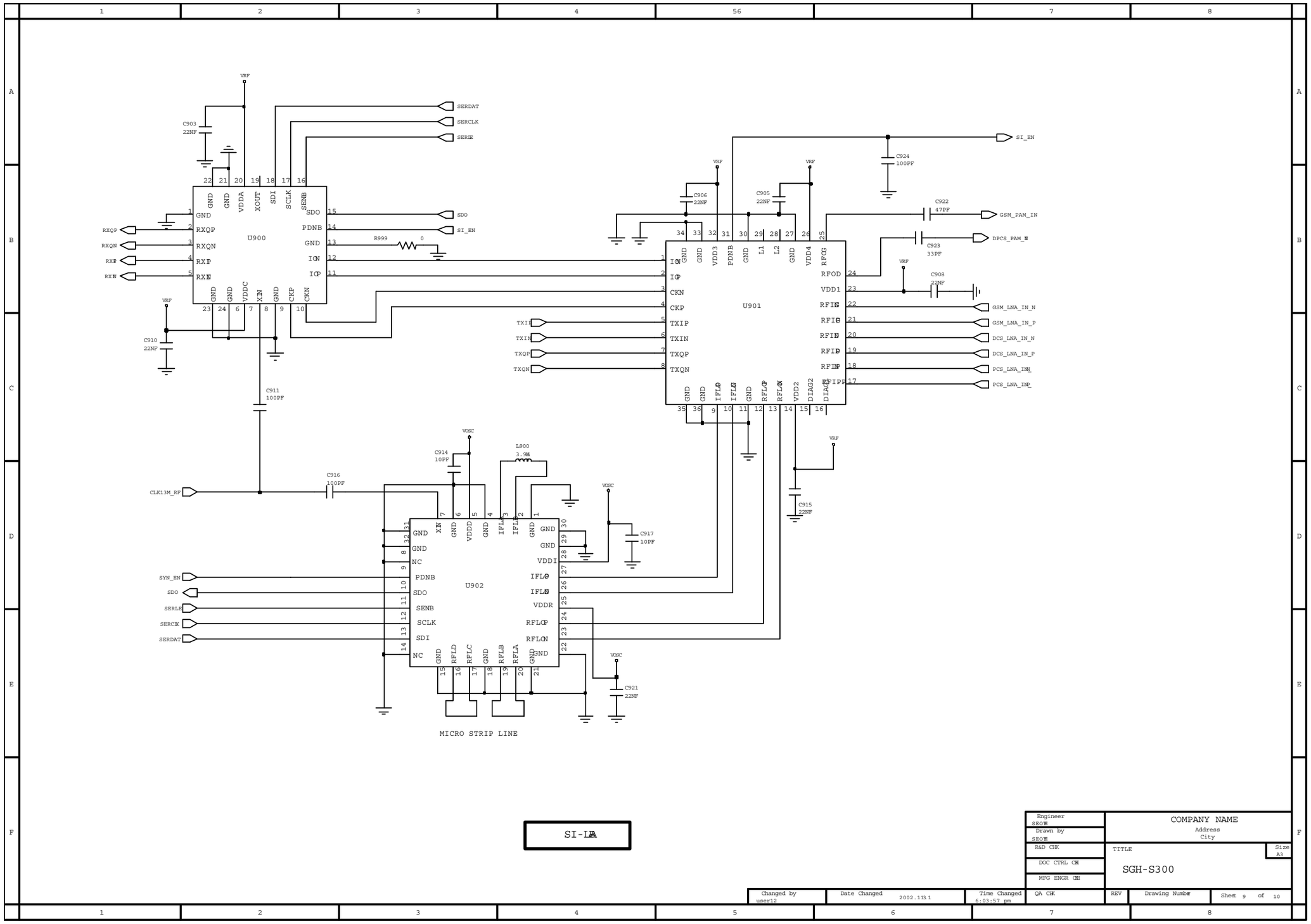
REV
Drawing Number
Sheet 81 of 0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TXQP
TXQN
GSM_PAM_IN
DPCS_PAM_IN
GSM_LNA_IN_N
GSM_LNA_IN_P
DCS_LNA_IN_N
DCS_LNA_IN_P
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SYN_EN
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SERCK
SERDAT
MICRO STRIP LINE
SI-LPA
COMPANY NAME
Address
City
Engineer SEOYH
Drawn by SEOYH
R&D CHK
DOC CTRL CHK
MFG ENGR CHK
TITLE
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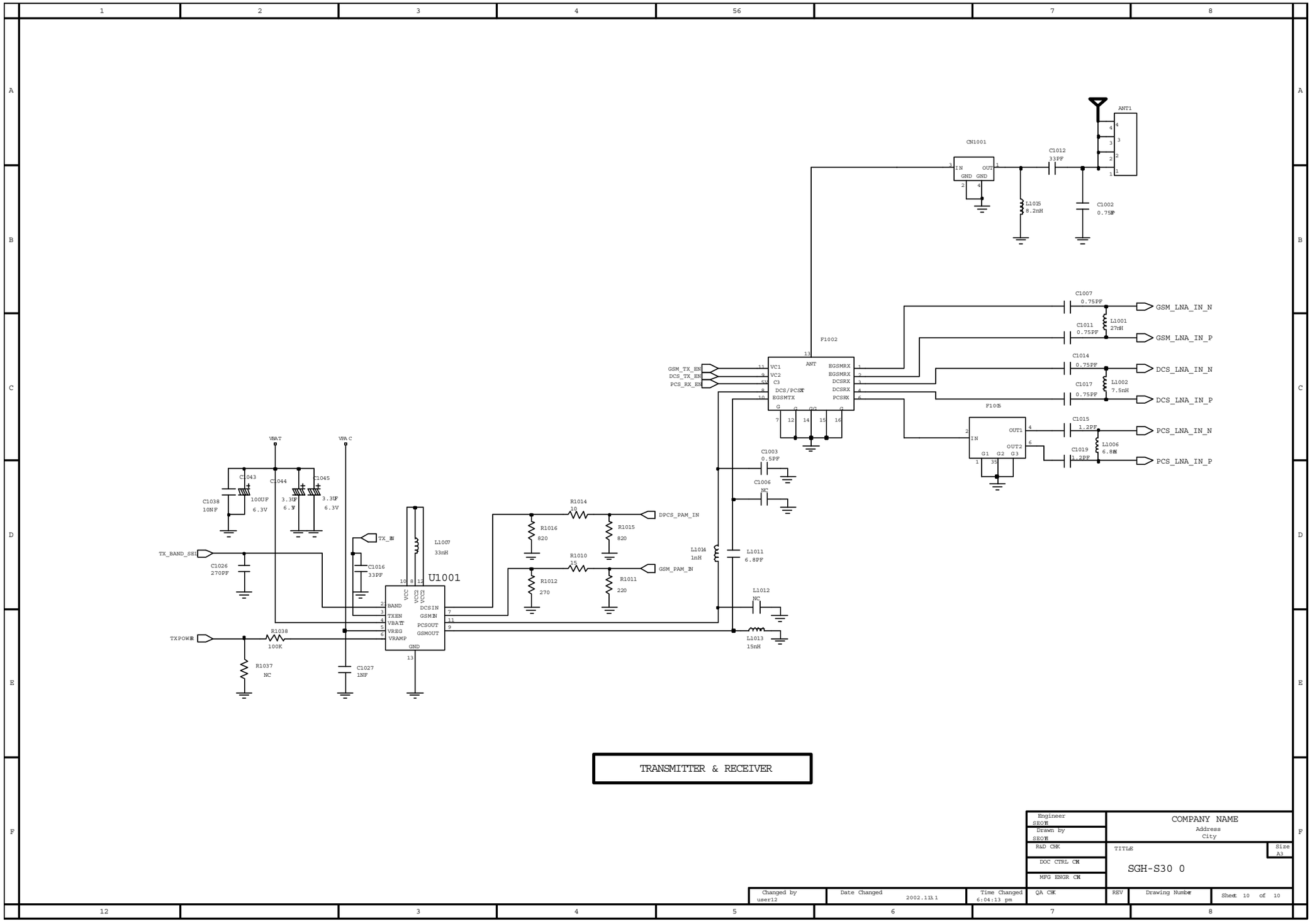
Date Changed 2002.11.11
Time Changed 6:03:57 pm
QA CHK
REV
Drawing Number
Sheet 9 of 10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C1012
33PF
L1015
8.2nH
C1002
0.75PF
C1007
0.75PF
GSM_LNA_IN_N
L1001
27nH
C1011
0.75PF
GSM_LNA_IN_P
F1002
C1014
0.75PF
DCS_LNA_IN_N
L1002
7.5nH
C1017
0.75PF
DCS_LNA_IN_P
F1005
C1015
1.2PF
PCS_LNA_IN_N
L1006
6.8nH
C1019
1.2PF
PCS_LNA_IN_P
GSM_TX_EN
DCS_TX_EN
PCS_RX_EN
VC1
VC2
C3
DCS/PCSTX
EGSMTX
EGSMRX
EGSMRX
DCSRX
DCSRX
PCSRX
ANT
C1003
0.5PF
C1006
NC
VBAT
VPAC
C1043
100UF
6.3V
C1044
3.3UF
6.3V
C1045
3.3UF
6.3V
C1038
10NF
TX_BAND_SEL
C1026
270PF
TX_EN
C1016
33PF
L1007
33nH
U1001
BAND
TXEN
VBATT
VREG
VRAMP
DCSIN
GSMIN
PCSOUT
GSMOUT
GND
VCC
VCC2
VCC2
R1014
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R1016
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820
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R1011
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GSM_PAM_IN
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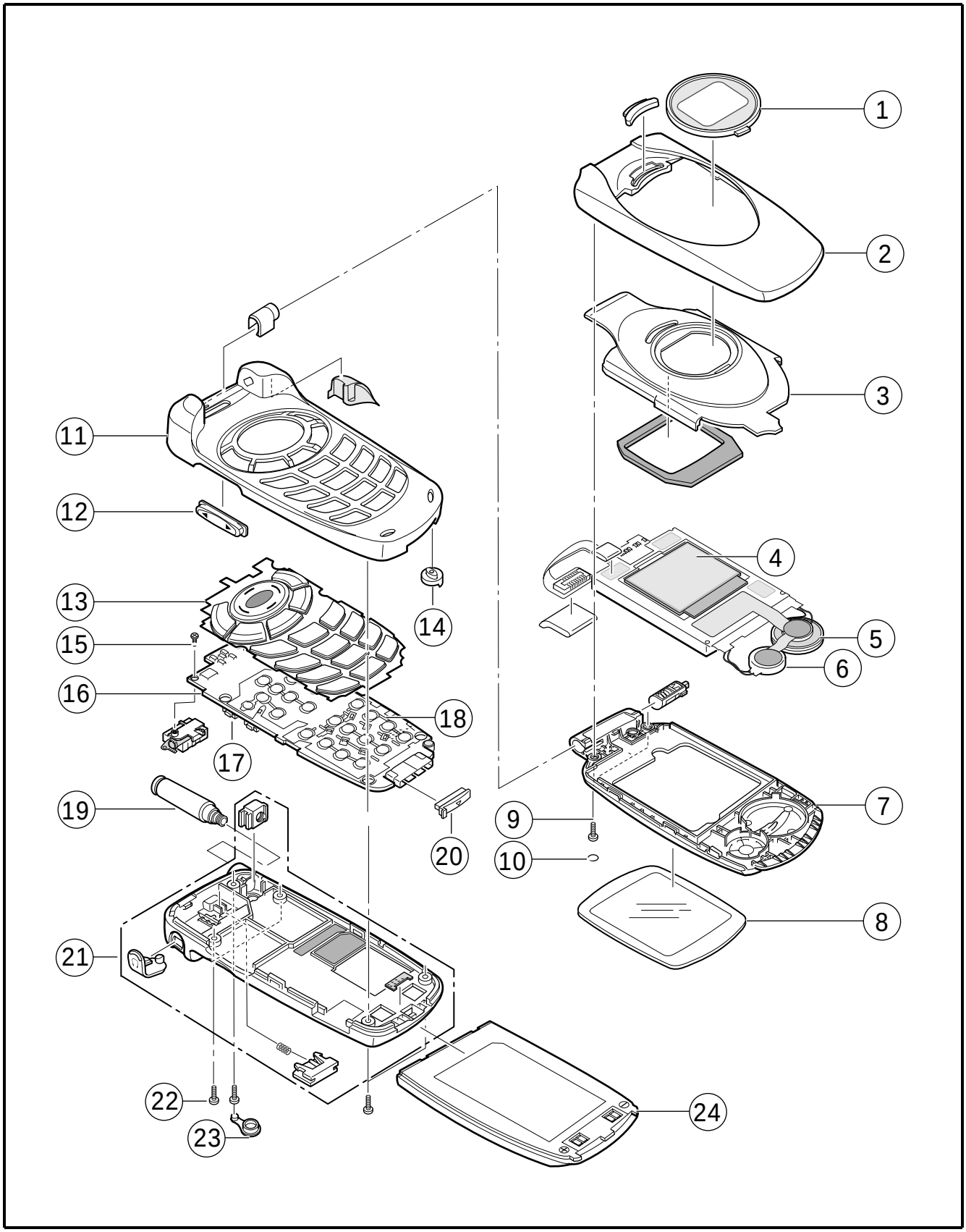
1nH
L1011
6.8PF
L1012
NC
L1013
15nH
TXPOWER
R1038
100K
R1037
NC
C1027
1NF
TRANSMITTER & RECEIVER
Engineer
SEOYE
Drawn by
SEOYE
R&D CHK
DOC CTRL CHK
MFG ENGR CHK
COMPANY NAME
Address
City
TITLE
SGH-S300
Size
A3
Changed by
user12
Date Changed
2002.11.11
Time Changed
6:04:13 pm
QA CHK
REV
Drawing Number
Sheet 10 of 10

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)

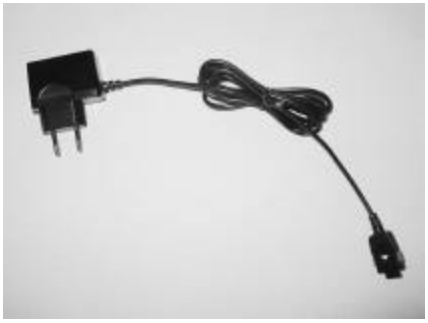
3-2. Test Cable
(GH00-00127A)

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,75OHM,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

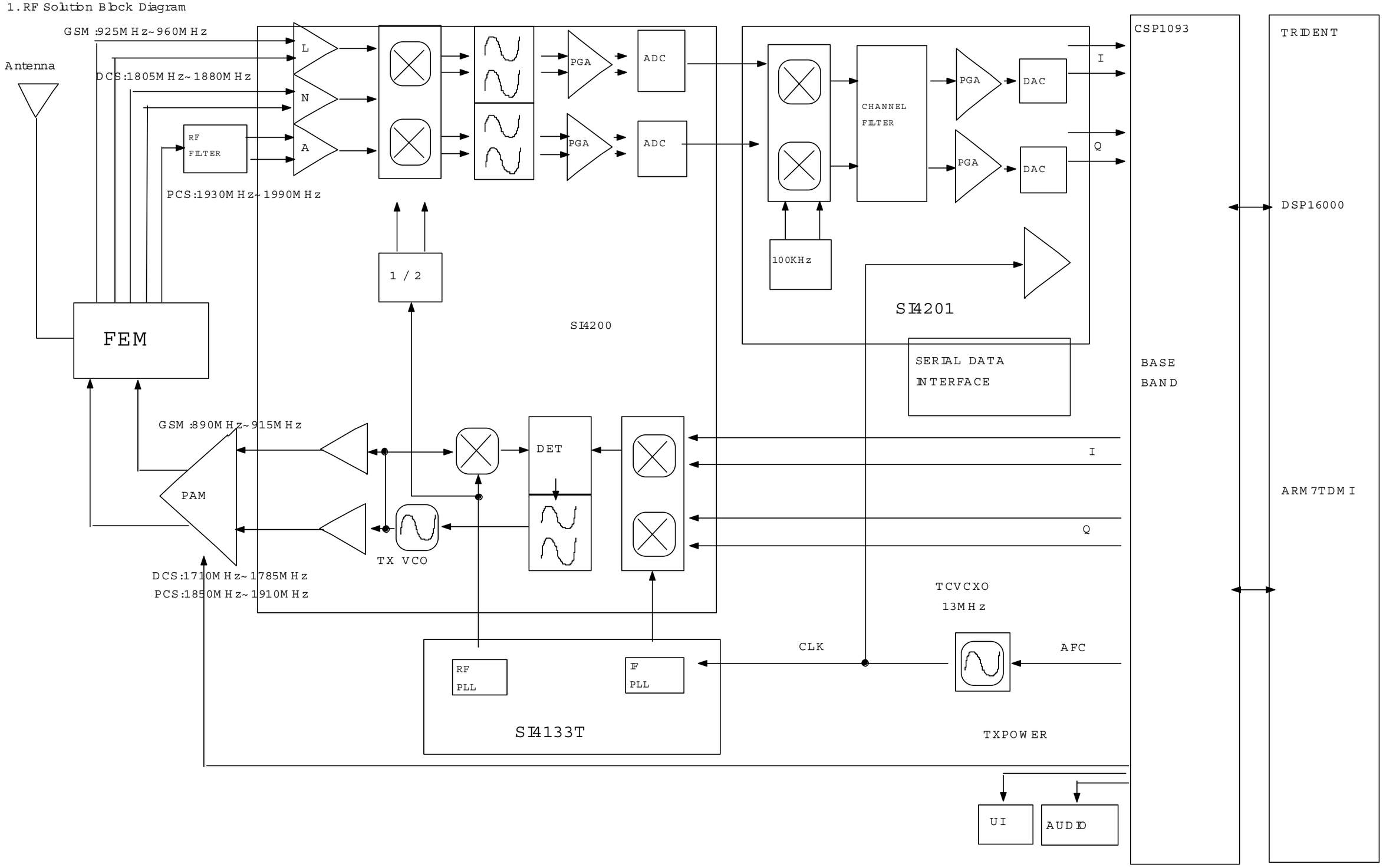
Level	SEC Code	Design LOC	Descriptions	
2	2007-000172	R1014	R-CHIP	10ohm ,5% ,1/16W ,DA,TP,1005
2	2007-001316	R1015	R-CHIP	820ohm ,5% ,1/16W ,DA,TP,1005
2	2007-001316	R1016	R-CHIP	820ohm ,5% ,1/16W ,DA,TP,1005
2	2007-000167	R102	R-CHIP	390Kohm ,5% ,1/16W ,DA,TP,1005
2	2007-007200	R103	R-CHIP	2.4OHM ,5% ,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	0OHM ,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	0OHM ,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	0OHM ,5% ,1/16W ,DA,TP,1005
2	2007-007771	R508	R-CHIP	0OHM ,5% ,1/16W ,DA,TP,1005
2	2007-007771	R606	R-CHIP	0OHM ,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	0OHM ,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	12VDC,20mA,160gf,4.5x4.0x2.3mm,SPST
2	3404-001152	U201	SWITCH-TACT	12VDC,20mA,160gf,4.5x4.0x2.3mm,SPST

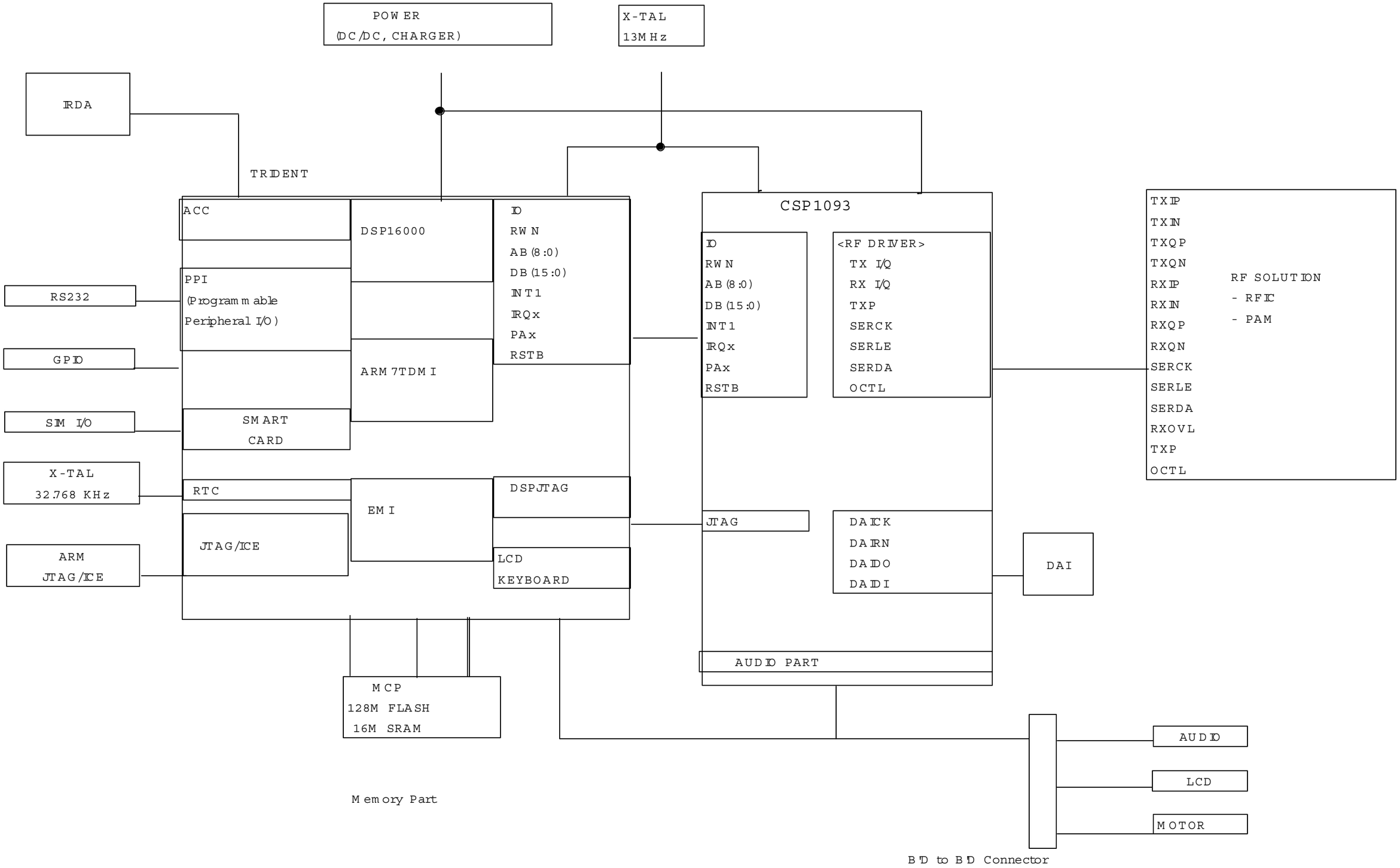
Level	SEC Code	Design LOC	Descriptions	
2	1204-001960	U401	IC-MELODY	YMU762 MA-3,QFN,32P,6.2X5.2MM,PLASTIC,4.5
2	1001-001155	U402	IC-ANALOG MULTIPLEX	NC7SB3157P6X,CMOS,SC70,6P,49MIL,-,5.5V,-40 to+85C,PLASTIC,180mW,300ohm,-,-,1uA,TP
2	1109-001242	U501	IC-ETC.MEMORY	LRS1395,4MX16/4MX16/1MX16BIT,CSP,72P,11X8 MM,70NS,3V,10%,PLASTIC,-20TO+85C,50UA,C
2	GH09-00020A	U601	IC MICOM-SGHS100	TR09WQTEB17N2B-DT,SGH-S100,-,-,-,-,144KX 16BIT,-,-,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,BICM OS,PLASTIC,3.5V,2MA,-40TO+85C,-,-,-,340K
2	1204-001984	U700	IC-SIGNAL PROCESSOR	CSP1093CR1-RT10-DB,FSBGA,108P,8X8MM,PLA STIC,3.3V,1W,-40TO+85C,TP,GSM2+ CONVERSID
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,PL ASTIC,-,-,0.26V,-40TO+85C,200MW,4.2V,
2	1205-002185	U900	IC-INTERFACE	SI4201-BM,MLP,20P,4X4MM,-,3V,-,-20TO+85C,T P,UNIVERSAL BASEBAND
2	1205-002268	U901	IC-TRANSCEIVER	SI4200F,MLP,32P,5X5MM,-,3V,-,-20TO+85C,TP,T RI-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

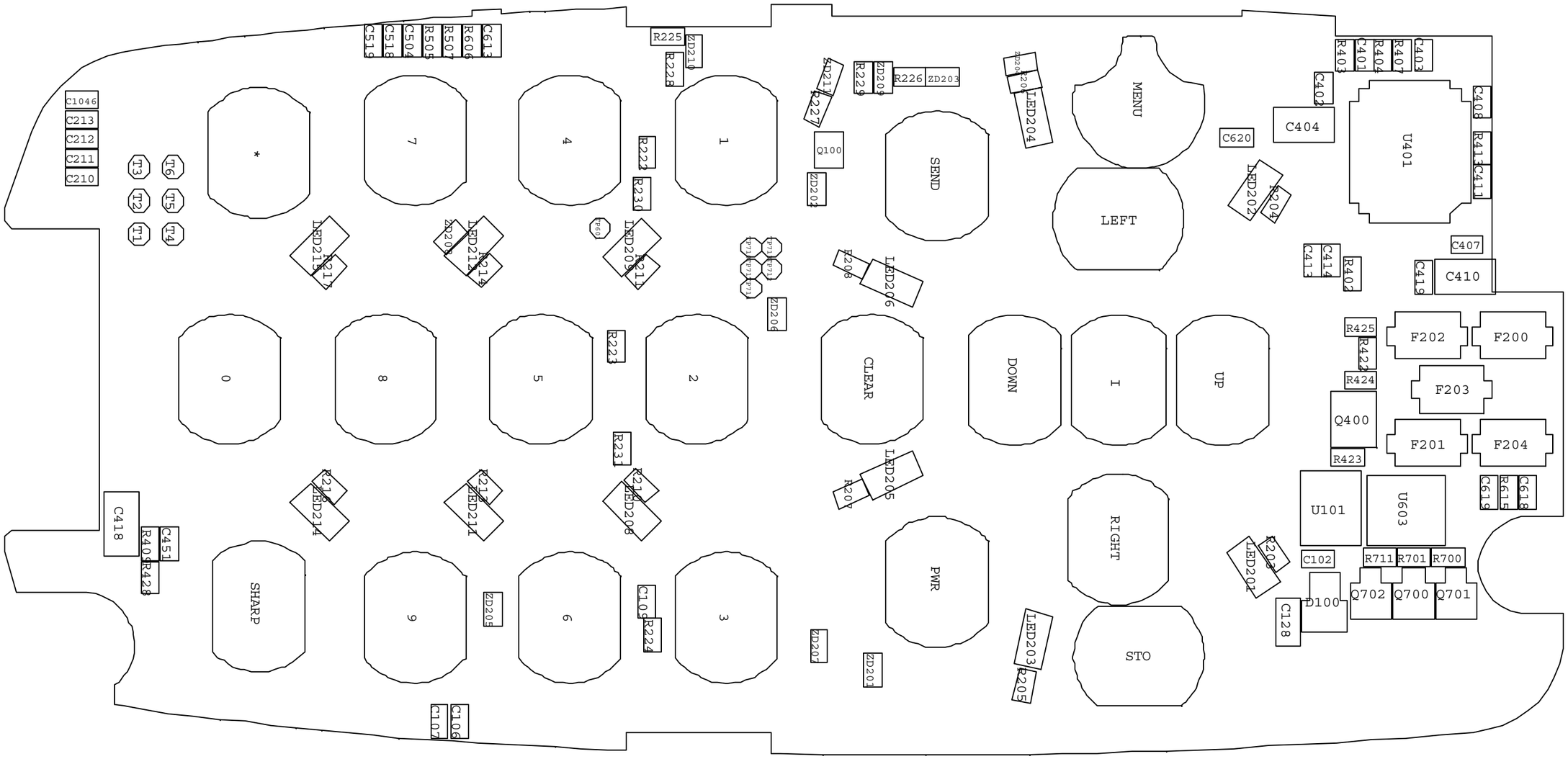


2. Base Band Solution Block Diagram



1. Main PCB Top Diagram

2. Main PCB Bottom Diagram



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