J5 ANTENNA ANT

C1 220P
L17 320905L
L1 320905L
C2 7P
C9 2P
C75 5P
D1 KDS114E
C7 10P
C6 4P
L7 320905L
C12 104P
C13 220P
L2 320904L
Q1 BFW67W
VBAT
C15 220P
L8 8.2nH
C11 9P
Q11 BFQ67W
C68 10P
C16 5P
RF
R1 1K
Q12 BFQ67W
Q14 BFQ67W
C14 12P
L9 100nH
D3 LL4148
R2 820
Q2 BFQ67W
R6 6.8K
L16 27nH
R61 10
C8 220P
R5 10K
L4 320905L
C21 7P
D2 KDS114E
Q4 KRA305V
Q5 KRA305V
RX+
RXE
TXE
C27 470P
R17 100
R12 100
C107 220P
C45 104P
C55 100P
L6 2.2uH
FL2 10.7MHz
C126 102P
C24 220P
R18 10K
L12 56nH
C28 12P
C38 8P
C32 100P
C87 22P
C18 22P
C43 15P
C40 3P
C30 6P
L15 39nH
C48 47P
R72 560
L3 22nH
C19 *
Q6 BFQ67W
L14 22nH
L5 22nH
Q7 BFQ67W
R62 33
C93 2P
R22 390
RF

C97 102P
R36 270K
R37 68K
C81 103P
C26 122P
C31 122P
R14 470K
C118 103P
C10 10uF/6.3V
R38 3.3K
X1 450KHz
R11 22K
C34 182P
C117 10P
C130 470P
C131 470P
R13 22K
R10 470K
R45 120K
R78 33K
C99 104P
FL3 LTUM450G
C23 104P
C20 104P
C69 104P
C92 102P
R75 47K
C52 1uF
C44 102P
U3 AN6311FA
QOUT QIN DETOUT PREIN PREOUT PMIN PMOUT EXPOUT GND3 EDET RSSIOUT SPIN SPOUT GND2
NFIN NFOUT SODET IFREF1 IFIN IFREF2 MIX2OUT VCC1 MIX2IN GND LIMOUT SIGOUT LIMIN RXVCC
RXVSS FINR VSS RXPD VDD TXPD TXVCC FINT TXVSS OSCI OSCO OSCOUT DATAIN CLKIN

VBAT
R46 470K
R15 100K
R33 10K
C80 333P
R27 100K
R26 100K
C95 332P
C79 472P
R35 2.2K
R28 4.7K
R39 470K
BEEP
R47 470K
C33 82P
VR1 10K
C4 104P
R96 330K
C115 103P
C25 104P
R66 22K
R40 22K
C29 104P
C3V
VCC2 CREF BMOUT ADJIN BREF MICIN MICOUT ROFF CMPDC SFOUT PSAVE TXDET CDET ENIN
C94 104P
C77 104P
C39150P
C781uF
C41 10uF/6.3V
C49 104P
C84 104P
C46 104P
R24 100K
R31 470K
R32 2.2K
C42 103P
R91 10K
C74 103P
C182 102P
MIC1 CMP-4540
R34 2.2K
R30 2.2K
C3 1uF

U10 UTC34119
CD RR +IN -IN OUT2 GND VCC OUT1
R41 33K
R63 22K
C82 56P
C83 1uF
R73 470K
C85 562P
C106 102P
C155 102P
C61 1uF
SP1 DXI28N-B
Q16 KRA226S
Q17 KRC404V
VBAT
MUTE

R58 100K
C109 103P
Q9 KRC404V
M3V
C91 104P
C96 104P
C103 104P
C104 104P
MODE
R42 3.3M
BEEP

U1 W741E260
SEG27 SEG26 SEG25 SEG24 SEG23 SEG22 SEG21 SEG20 SEG19 SEG18 SEG17 SEG16 SEG15 SEG14 SEG13 SEG12 SEG11 SEG10 SEG9 SEG8 SEG7 SEG6 SEG5 SEG4 SEG3 SEG2 SEG1 SEG0 COM0 COM1 COM2 COM3 DATA VPP VSS RE3 RE2
GND SEG28 SEG29 SEG30 SEG31 VDD3 VDD2 VDD1 DH2 DH1 MODE XOUT2 XIN2 VDD XOUT1 XIN1 RES INT MFP RA0 RA1
RA2 RA3 RB0 RB1 RB2 RB3 RC0 RC1 RC2 RC3 RD0 RD1 RD2 RD3 RE0 RE1
MUTE
C62 220P
SW2 PTT
UP SW3
DN SW4
MODE SW5
RXE
TXE
VCOE
R57 4.7K
R56 4.7K
R55 4.7K
R54 4.7K
R53 4.7K
R52 4.7K
R51 4.7K
R50 4.7K
R49 4.7K
LCD1 LCD-FRS
SEG5 SEG4 SEG3 SEG2 SEG1 COM4 COM3 COM2 COM1
DATA
VPP

SW1 PWR
R48 100K
M3V
U2 XC6201P302MR
VOUT VIN GND NC NC1
Q15 KRA226S
C3V
C76 104P
C90 103P
C101 10uF/6.3V
C149 104P
C113 220P
VBAT
P1 BATT(+)
P2 BATT(+)

C120 100P
R44 220
Q10 KRA305V
C3V
VCOE
C70 220P
R43 47K
D6 KDS114E
C59 1uF
R4 1K
L11 27nH
C36 *
R20 10K
R23 10K
RX+
Q13 KRC404V
C54 220P
C47 220P
Q8 2SC4083
C63 *
C72 1uF
C73 220P
C53 104P
X2 10.25MHz
C50 20P
VC1 10P
C51 15P
C17 33P
R29 1K
RT1 100
C35 4P
C67 2P
C58 3P
R7 3K
L10 2.7nH
L13 320905L
C64 3P
C60 6P
R9 4.7K
Q3 2SC4083
C56 12P
C37 104P
R77 4.7K
VT
C71 1uF
R19 2.7K
R3 22K
C66 220P
C65 393P
R16 2.2K
C57 470P
C22 12P
R8 150
D5 MA25372
R64 100K
C5 220P
P13

TITLE	GMRS-120 V1.1			
MODEL			DESIGN	S.Y.SEOL
FILE NAME			CHECK	Y.K.ROH
DATE			APPROVAL	Y.K.ROH
EINTECH CO.,LTD.				