

Description	Schematics
BATTERIES BOARD 38X46.1X3.2MM	
STRAND WIRE UL1007 #28 BLACK	JW201L=50MM,JW301L=50MM
STRAND WIRE UL1007 #28 RED	JW202L=50MM,JW302L=50MM
MIC EM-926A-622 WELLIN	MIC101
SPEAKER 32 OHM 0.5W 3632A505	SPK101
CAP.ELECT 6.3V M 100UF 5X5MM	C242
CAP. ELECT 6.3V M 220UF 6X5MM	C248,C237
SAW DILTER 410MHZ YEL	BPF101
CRYSTAL FILTER 21.4MHZ AEI 21.4N7.5A2	BPF102
CERAMIC FILTER CFT450HT HUATAMO	BPF105
4DIGIT WITH ICON 22X20X1.7MM TB4320A	LCD101
DIA 2.5mm EARPHONE JACK ST-101	J101
COIL FIXED 2U2H 5%	L112
JTB 450KHZ CERAMIC DISCRIMINATOR	L114
RES.SEMI.F-09115SA A5KB L14.6FCX7	VR103
CERAMIC RESONATOR 4MHZ +/-0.2%	X102
PCB 2LAYER 106X50.8X1.0MM FR4	E506,E507
CAP.CER.CHIP 50V CH J% 100PF MURATA	C121,C158,C178,C224,C245,C255,C262,C283,C323,C
CAP. CER. CHIP 50V B K% 1NF	C113,C148,C164,C161,C9
CAP. CER. CHIP 16V X7R K 0.01UF	C192
CAP.CER.CHIP 16V F Z% 0.1UF MURATA	C108,C124,C170,C173,C175,C222,C243,C244,C253,C
CAP. CER. CHIP 16V F Z% 1UF	C136,C149,C157,C177,C269
CAP CER CHIP 10V F Z 10UF	C172
CAP.CER.CHIP 16V B K% 0.012UF MURATA	C184
CAP. CER. CHIP 50V CH J% 150PF MURATA	C322
CAP. CER. CHIP 16V B K 0.015UF MURATA	C258
CAP.CER.CHIP 50V CH C% 1.5PF MURATA	C123,C130
CAP.CER.CHIP 16V B K% 22NF MURATA	C239
CAP. CHIP 50V B COG 2.2P 0402	C115
CAP.CER.CHIP 50V CH J% 24PF MURATA	C169
CAP.CER.CHIP 50V CH C% 3PF MURATA	C114
CAP. CER. CHIP 50V CH J% 33PF	C133,C320
CAP CER CHIP 50V NPO J% 39PF MURATA	C201,C202
CAP CER CHIP 25V B K 0.0039UF TDK	C185
CAP. CER. CHIP 50V X7R K 470PF 0402	C163
CAP. CER. CHIP 50V CH C% 5PF MURATA	C131
CAP. CER. CHIP 50V X7R K 560PF	C111
CAP. CER. CHIP 25V B K% 0.0056UF MURATA	C1
CAP CER CHIP 50V X7R K 680PF MURATA	C260
CAP. CER. CHIP 25V B K 0.0068UF	C198,R286,C275
CAP. CER. CHIP 50V X7R K 0.068UF	C220
BAS85 SCHOTTKY BARRIER DIODE SOD80C	D5,D114
DIODE ARRAY CHIP DA204U	D103
LED CHIP KPA-3010EC RED	D107,D108
LED CHIP AMBER LT8AA2-54-UR91-T5 0603	D109
DIODE CHIP SCHOTTKY BARRIER RB715F	D3
INDUCTOR CHIP 100NH +-5% LQG11AR10J00T	L117,L121
INDUCTOR CHIP 27NH +-5% LQG18HN27NJ00D	L107,L110

Description	Schematics
CHIP INDUCTOR 4n7H LQG11A4N7S00	L116
RES. CHIP 1/16W 0 OHM	R252,L120
RES. CHIP 1/16W 0 OHM	C306,R1,R253,R294,R303
RES. CHIP 1/16W 10 OHM	R139,R231
RES. CHIP 1/16W 100	R188
RES. CHIP 1/16W 1K	R245
RES. CHIP 1/16W 1K	R112
RES. CHIP 1/16W 10K	R131,R168,R228,R254,R32,R34,R35,R21,R22
RES. CHIP 1/16W 100K	R102,R145,R205
RES. CHIP 1/16W 1M	R115,R206
RES CHIP 1/16W 1.1M 5%	R167
RES. CHIP 1/16W 1.2K	R110
RES CHIP 1/16W 5% 120K 0402	R136
RES. CHIP 1/16W 130K	R148
RES. CHIP 1/16W 150 OHM	R287
RES CHIP 1/16W 5% 1.8K 0402	R33
RES CHIP 1/16W 5% 180K 0402	R257
RES. CHIP 1/16W 2.2K	R123
RES. CHIP 1/16W 22K	R126
RES. CHIP 1/16W 22K	R204,R230,R249,R268
RES. CHIP 1/16W 220K	R105,R154
RES. CHIP 1/16W 2.7K	R14
RES. CHIP 1/16W 2.7K	R207
RES. CHIP 1/16W 270K 0402	R117,R155
RES. CHIP 1/16W 330 OHM 0402	TR105
RES. CHIP 1/16W 3.3K 0402	R106,R151
RES. CHIP 1/16W 390	R189
RES CHIP 1/16W 5% 390K 0402	R132,R41
RES. CHIP 1/16W 470	R3
RES. CHIP 1/16W 4.7K	R247
RES. CHIP 1/16W 4.7K 0402	R250,R288,R276
RES. CHIP 1/16W 47K	R120
RES. CHIP 1/16W 470K	R330
RES. CHIP 1/16W 470K 0402	C276
RES. CHIP 1/16W 5.6K 0402	R140
RES. CHIP 1/16W 680 OHM 0402	R285,R127
RES. CHIP 1/16W 6.8K	R107
RES. CHIP 1/16W 6.8K 0402	R292
RES CHIP 1/16W 5% 68K 0402	R258
RES CHIP 1/16W 5% 680K 0402	R141
RES. CHIP 1/16W 8.2K 0402	R284
TR. CHIP PNP 2SA1611-T1 M6	Q111,Q119
TR. CHIP NPN 2SC4177-T1 L6	Q103,Q109,Q118,Q121,Q125,Q130,Q201
TR. CHIP NPN 2SC4901	Q102,Q112
IC LOW POWER NARROW BAND FM IF	IC101
IC XC6201T302PR 3V REGULATOR SOT-89	IC108
DIE MCU JT5V13-XXXX FOR	IC105
CRYSTAL	X101

Description

CAP. CHIP TR1MMER 10PF TZBX4100AA110
CAP.CER.CHIP 50V D% 10PF NPO MURATA
CAP CER CHIP 50V COG +/-5% 100PF EYANG
CAP.CER.CHIP 50V CH J% 100PF MURATA

CAP. CER. CHIP 50V CH J% 100PF
CAP. CER. CHIP 50V B K% 1NF
CAP. CER. CHIP 16V X7R K 0.01UF
CAP. CER. CHIP 50V B K% 0.01UF
CAP.CER.CHIP 16V F Z% 0.1UF MURATA
CAP. CER. CHIP 16V F Z% 1UF
CAP CER CHIP 10V F Z 10UF
CAP.CER.CHIP 50V CH C% 1PF MURATA
CAP.CER.CHIP 50V CH J% 12PF MURATA
CAP. CER. CHIP 50V X7R K 0.0012UF
CAP.CER.CHIP 50V CH J% 15PF MURATA
CAP. CER. CHIP 50V CH J% 15PF
CAP. CER. CHIP 50V CH J% 150PF MURATA
CAP.CER.CHIP 50V CH C% 1.5PF MURATA
CAP.CER.CHIP 50V CH J% 18PF MURATA
CAP. CER. CHIP 16V B K 0.018UF
CAP. CER. CHIP 50V CH J% 20PF MURATA
CAP.CER.CHIP 50V CH C% 2PF MURATA
CAP.CER.CHIP 50V CH J% 22PF MURATA
CAP. CER. CHIP 16V B K% 0.0022UF
CAP.CER.CHIP 16V B K% 22NF MURATA
CAP.CER.CHIP 50V CH J% 24PF MURATA
CAP. CER. CHIP 50V NPO J 27P 0402
CAP.CER.CHIP 50V CH J% 270PF MURATA
CAP. CER. CHIP 10V X7R K 0.027UF
CAP.CER.CHIP 50V CH C% 3PF MURATA
CAP. CER. CHIP 50V CH J% 33PF
CAP. CER. CHIP 50V CH J% 33PF
CAP. CER. CHIP 50V CH J% 330PF
CAP. CER. CHIP 50V CH C% 3P3F
CAP. CER. CHIP 50V X7R K 390PF 0402
CAP CER CHIP 50V COG C 3.9PF 45768-08
GRMCOG3R9C050AD
CAP. CER. CHIP 50V COG B 3.9PF
CAP.CER.CHIP 50V CH C% 4PF MURATA
CAP. CER. CHIP 50V CH J% 47PF
CAP.CER.CHIP 16V B K% 0.047UF MURATA
CAP. CER. CHIP 50V CH C% 5PF MURATA
CAP.CER. CHIP 50V NPO J% 56pF
CAP. CER. CHIP 50V X7R K 560PF
CAP. CER. CHIP 10V X7R K 0.056UF
CAP. CER. CHIP 50V CH C% 6PF MURATA

Schematics

C159
C132,C180 FOR MATCH B1 CRYSTAL
C227
C101,C128,C142,C153,C174,C189,C2,C210,C231,C23
3,C238,C251,C259,C282,C284,C293,C310,C311,C139,
C206,C309,C183,C16,C129
C182,C230,C263
C103,C287,C250,C10,C15
C143,C194,C246,C257,C14,C208
C135
C116,C125,C126,C167,C204,C221,C234,C288,C13
C147,C5,C186,C249,C166
C109,C145,C232,C235
C179 FOR MATCH B3/B4 CRYSTAL
C6,C151
C214
C180 FOR MATCH B3 CRYSTAL
C127
C285
C138
C112,C7,C171 FOR MATCH B4 CRYSTAL
C241
C180 FOR MATCH B4 CRYSTAL
C110
C171 FOR MATCH B1/B3 CRYSTAL,C12
C209
C156,C196,C228,C274
C281
C155,C190
C223
C162
C267
C317
C146,C291,C295,C312,C314,C308,C325
C219
C144
C187
C150

C141
C303
C261
C188,C256,C273
C165 FOR MATCH B3/B4 CRYSTAL
C199
C122
C191
C266

Description	Schematics
CAP. CER. CHIP 50V CH J% 62PF MURATA	C176
CAP.CER. CHIP 50V NPO J% 68pF	C236
CAP CER CHIP 50V X7R K 680PF MURATA	C225
CAP. CER. CHIP 25V B K 0.0068UF	C272
CAP. CER. CHIP 50V X7R K 0.068UF	C160,C229
CAP. CER. CHIP 50V CH C% 8PF MURATA	C134,C140
CAP. CER. CHIP 50V CH D 9PF MURATA 0402	C102,C106,C165 FOR MATCH B1 CRYSTAL
LED CHIP AMBER LT8AA2-54-UR91-T5 0603	D4
DIODE CHIP SWITCHING SOD-123	D1
DIODE PIN 1SS314	D101,D105,D106,D112,D2
DIODE VARACTOR 1SV214	D111
INDUCTOR CHIP 100NH +-5% LQG11AR10J00T	L119,L122
INDUCTOR CHIP 12NH +-5% LQG18HN12NJ00D	C302,L109
INDUCTOR CHIP 22NH +-5% LQG18HN22NJ00D	L104
INDUCTOR CHIP 27NH +-5% LQG18HN27NJ00D	L103,L111
LQG18HN5N6S00 5.6NH 5% 0603 49744-09	L118
INDUCTOR CHIP 68NH +-5%	L115
THER. NTCM10053EH220JC TDK 0402 TYPE	TR102
THERMISTOR CHIP NTH5G10P40B473K08TH	TR101
RES. CHIP 1/16W 0 OHM	R4,C168
RES. CHIP 1/16W 0 OHM	C11,C119,TR104
RES. CHIP 1/16W 10 OHM	R111
RES. CHIP 1/16W 1K	R124,R270,R40
RES. CHIP 1/16W 10K	R273,R272
RES. CHIP 1/16W 10K	R114,R125,R129,R187,R2,R280,R23,R143,R271
CHIP VOLUME 103POZ3AN1 10KB	VR1,VR2
RES. CHIP 1/16W 100K	R7,R37,R275,R237
RES. CHIP 1/16W 100K	R229
RES. CHIP 1/16W 1M	R239,R232
RES. CHIP 1/16W 1M	R234,R241
RES CHIP 1/16W 5% 120R 0402	R116
RES. CHIP 1/16W 1K2	R200
RES. CHIP 1/16W 1.2K	R183
RES CHIP 1/16W 5% 12K 0402	R130
RES. CHIP 1/16W 13K 0402	R156
RES CHIP 1/16S 5% 1.3M 0402	R186
RES. CHIP 1/16W 1.5K	R293
RES. CHIP 1/16W 15K	R134,R195
RES. CHIP 1/16W 5% 150K 0402	R213
RES. CHIP 1/16W 1.8K	R88
RES CHIP 1/16W 5% 1.8K 0402	R101
RES CHIP 1/16W 5% 180K 0402	R137
RES. CHIP 1/16W 20K	R237,R175,R170
RES CHIP 1/16W 5% 20K 0402	R138,R39
RES. CHIP 1/16W 200K	R6
RES. CHIP 1/16W 5% 22 0402	TR102
RES. CHIP 1/16W 220	R306,R104
RES. CHIP 1/16W 2.2K	R119,R128,R259,R20

Description	Schematics
RES. CHIP 1/16W 22K	R12,R251,R8
RES. CHIP 1/16W 22K	R118,R243
RES. CHIP 1/16W 220K	R196,R281,R87
RES CHIP 1/16W 5% 24K 0402	R235
RES. CHIP 1/16W 270 OHM 0402	R103
RES. CHIP 1/16W 2.7K	R201
RES. CHIP 1/16W 270K	R185
RES. CHIP 1/16W 270K 0402	R135,R214,R146
RES. CHIP 1/16W 33K	R160
RES. CHIP 1/16W 5% 330K 0402	R172
RES. CHIP 1/16W 39K 0402	R260
RES. CHIP 1/16W 4.7K	R31,R29
RES. CHIP 1/16W 4.7K 0402	R11,R122,R142,R312,R9,R274
RES. CHIP 1/16W 47K	R242,R302
RES. CHIP 1/16W 47K	R202,R144,R10
RES. CHIP 1/16W 470K	R203
RES. CHIP 1/16W 470K 0402	R157,R163,R192,R212,R225,R24,R25,R26,R27,R28
CHIP VOLUME POZ3AN-1-502N 5K	VR101
RES CHIP 1/16W 5% 5.1K 0402	R19
RES. CHIP 1/16W 51K	R174
RES. CHIP 1/16W 51K	R158,R17
RES. CHIP 1/16W 5.6K 0402	R113,R184,R13,R15,R16
RES. CHIP 1/16W 56K	R305,R153
RES. CHIP 1/16W 680 OHM 0402	R147
RES. CHIP 1/16W 6.8K 0402	R109
RES CHIP 1/16W 5% 680K 0402	R5
RES. CHIP 1/16W 8.2K 0402	R299,C226
RES CHIP 1/16W 5% 820K 0402	R220
TR. CHIP PNP 2SA1611-T1 M6	Q200,Q108
TR. CHIP NPN 2SC4177-T1 L6	Q1,Q110,Q116,Q120,Q127,Q128,Q2,Q3,Q4,Q126
TR. CHIP NPN 2SC4901	Q104,Q105,Q106
TR CHIP FET 2SK3756 TOSHIBA	Q101
IC LOW POWER CS34119	IC107
IC LM324D 14SOP ON	IC102,IC104
IC S1T8825B PLL SAMSUNG	IC103
SPRING COIL 1.0X0.4X4TS QJ WFD	L106
COIL SPRING 0.4X1.3X3T	L101,L102
COIL SPRING 0.4X1.3X4TS WFD	L113