

BOM of GMRS7015RC

New

Datre : Mar 08, 2007

ITEM	NAME & DESCRIPTION	VENDOR CODE	MAKER	Location NO	Q'TY per unit
* ECECT Parts					
1	Capacitor chip 0402 NP0	1P		C20	1
2	Capacitor chip 0402 NP0	2P		C179	1
3	Capacitor chip 0402 NP0	3P		C53 C223A C223B C223C C307	5
4	Capacitor chip 0603 NP0	3P(03)		C17 C3A	2
5	Capacitor chip 0402 NP0	4P		C4 C64	2
6	Capacitor chip 0402 NP0	5P		C304 C306	2
7	Capacitor chip 0402 NP0	6P		C18 C311 C37	3
8	Capacitor chip 0603 NP0	6P(03)		C30 C9A	2
9	Capacitor chip 0402 NP0	7P		C45	1
10	Capacitor chip 0402 NP0	8P		C224A C303 C66	3
11	Capacitor chip 0402 NP0	10P		C44	1
12	Capacitor chip 0402 NP0	12P		C55 C86	2
13	Capacitor chip 0603 NP0	15P(03)		C9	1
14	Capacitor chip 0402 NP0	16P		C312	1
15	Capacitor chip 0402 NP0	18P		C309	1
16	Capacitor chip 0402 NP0	20P		C208 C209	2
17	Capacitor chip 0402 NP0	22P		C69 C224 C180	3
18	Capacitor chip 0402 NP0	24P			0
19	Capacitor chip 0402 NP0	27P		C222	1
20	Capacitor chip 0402 NP0	33P			0
21	Capacitor chip 0402 NP0	39P		C3	1
22	Capacitor chip 0402 NP0	47P		C41	1
23	Capacitor chip 0402 NP0	68P		C223 C131	2
24	Capacitor chip 0402 NP0	100P		C1 C8 C10 C15 C19 C22 C23 C26 C28 C38 C39 C42 C43 C46 C51 C56 C60 C62 C65 C68 C73 C74 C76 C79 C80 C82 C83 C85 C87 C88 C92 C94 C96 C97 C98 C99 C111 C112 C118 C129 C132 C154 C155 C156 C160 C161 C162 C165 C166 C167 C169 C171 C174 C181 C213	55
25	Capacitor chip 0603 NP0	100P(03)		C2	1
26	Capacitor chip 0402 NP0	120P			0
27	Capacitor chip 0402 NP0	150P		C101	1
28	Capacitor chip 0402 NP0	220P		C305	1
29	Capacitor chip 0402 NP0	270P		C103	1
30	Capacitor chip 0402 NP0	470P		C29 C31 C54 C308	4
31	Capacitor chip 0402 X7R	0.001		C13 C25 C78 C93 C218 C119	6
32	Capacitor chip 0402 X7R	0.0012		C124	1
33	Capacitor chip 0402 X7R	0.0022		C16 C110 C116 C123 C125 C122	6
34	Capacitor chip 0402 X7R	0.0027		C136	1
35	Capacitor chip 0402 X7R	0.0047		C58	2
36	Capacitor chip 0402 X7R	0.01		C36 C40 C50 C67 C77 C11 C81	7
37	Capacitor chip 0402 X7R	0.012		C32	1
38	Capacitor chip 0402 X7R	0.022			0
39	Capacitor chip 0402 X7R	0.033		C35 C130	2
40	Capacitor chip 0402 X7R	0.039		C109 C121	2
41	Capacitor chip 0402 X7R	0.047		C48	1
42	Capacitor chip 0402 X7R	0.056		C5 C183 C316	3
43	Capacitor chip 0402 Y5V	0.1		C27 C33 C34 C47 C52 C57 C59 C61 C63 C71 C72 C75 C89 C90 C95 C104 C105 C106 C107 C108 C113 C114 C115 C120 C157 C164 C170 C182 C207 C211	30
44	Capacitor chip 0603 X7R	0.047(X7R)		C102 C24	2
45	Capacitor chip 0603 X7R	0.056(X7R)			
46	Capacitor chip 0603 X7R	0.1(X7R)		C6 C49 C117 C314	4
47	Capacitor chip 0603 Y5V	1UF		C12 C84 C301 C315	4
48	Capacitor Elect 3mm X 5mm	10uF/6.3V(3X5)		C7 C91 C133 C100	4
49	Capacitor Elect 3mm X 5mm	22uF/6.3V(3X5)		C70	1
50	Capacitor Elect 5X11	220uF/10V 5x11		C21 C172	2
51	Capacitor Elect 5X7	47uF/16V 5x7		C176	1
52	Diode Chip	KDS114E	KEC	D1 D2 D5 D301 D8 D9	6
53	Diode Chip	KDS115	KEC	D4 D7	2
54	Diode Chip	KDS120	KEC	D3 D25	2
55	Diode Vari-cap	MA2S372	Panasonic	D302	1
56	IC regulator 4V	XC6201B402MR	TOREX	IC3	1
57	IC SPK	LM386		IC2	1
58	IC OP	LM324		IC1 IC5	2
59	IC PLL	GP214D		IC7	1
60	IC IF	D5018		IC5	1
61	IC Reset 2.4V	XC61CN2402MR	TOREX	IC6	1
62	TMP86CH21 Die type	JT5BU8-6R47(Z)	Toshiba	CPU1	1

63	IC EEPROM (TSSOP type)	AT93C46-10TU-2.7	Atmal	IC8	1
64	SMD Jack	JSKJS-3515S-B	Sekwang	J9-A	1
65	Inductor Spring	0.3X1.4X6T®		L15	1
66	Inductor Spring	0.35X1.7X5T(R)		L1 L7	2
67	Inductor Spring	0.3X1.3X3T(R)		L11 L303	2
68	Inductor Spring	0.3X1.4X6T(R)		L3	1
69	Inductor Spring	0.4X1.3X2T(R)		L6	1
70	Inductor Spring	0.4X2.0X6T(L)		L8	1
71	Inductor Chip 0402	100NH	Sunload	L13	1
72	Inductor Chip 0603 (SDWL)	100NH(SDWL,0603)	Sunload	L17	1
73	Inductor Chip 0402	18NH	Sunload	L10 L14	2
74	Inductor Chip 0603	18NH(03)	Sunload	L9	1
75	Inductor Chip 0603	1UH(03)	Sunload	L16	1
76	Inductor Chip 2520, SDWL	1UH(SDWL,2520)	Sunload	L2	1
77	Inductor Chip 0603	2.2UH	Sunload	L302	1
78	Inductor Chip 0402	39NH	Sunload	L4 L5	2
79	Inductor Chip 2520, SDWL	3.3UH(SDWL,2520)	Sunload	L12	1
80	PCB	GMRS7015_X1	Capital	PCB1	1
81	LCD GMRS7015RC	SDM8A4332A-TPBNN-B	Santech	LCD1	1
82	LED Chip (blue)	12-21VGC/TR8	HUALIGHT	LED1	1
83	LED leaded (white)	3BCLSC26	MLC	LED2	1
84	C- microphone	WBN-9745P9	WABONY	CMIC1	1
85	Resistor Chip 0402 5%	0		R206	1
86	Resistor Chip 0603 5%	2.2(03)		R120	1
87	Resistor Chip 0402 5%	4.7		R10 R30 R10A R107	4
88	Resistor Chip 0402 5%	10		R98 R123 R301	3
89	Resistor Chip 0402 5%	15		R19	1
90	Resistor Chip 0402 5%	47		R34 R42 R71 R106 R224	5
91	Resistor Chip 0402 5%	56		R121	1
92	Resistor Chip 0402 5%	150		R125	1
93	Resistor Chip 0402 5%	180		R55 R138 R306	3
94	Resistor Chip 0402 5%	220		R8 R104 R105 R117	4
95	Resistor Chip 0603 5%	220(03)		R41 R43 R45 R132 R133 R134	6
96	Resistor Chip 0402 5%	470		R72 R102 R33	3
97	Resistor Chip 0402 5%	560		R11	1
98	Resistor Chip 0402 5%	680		R96 R137 R14	3
99	Resistor Chip 0603 5%	820(03)		R116	1
100	Resistor Chip 0402 5%	1K		R25 R103 R302 R114	4
101	Resistor Chip 0402 5%	1.8K		R31	1
102	Resistor Chip 0402 5%	2.2K		R15 R58 R70 R81 R97 R100 R118 R84 R112	9
103	Resistor Chip 0603 5%	2.2K(03)		R2 R53	2
104	Resistor Chip 0402 5%	2.7K		R1 R13	1
105	Resistor Chip 0402 5%	3.3K		R5 R303 R111	3
106	Resistor Chip 0603 5%	3.3K(03)			0
107	Resistor Chip 0402 5%	3.9K			0
108	Resistor Chip 0402 5%	4.7K		R6 R9 R21 R56 R64 R78 R82 R92 R79 R36	10
109	Resistor Chip 0402 5%	5.6K		R304 R77 R91	3
110	Resistor Chip 0402 5%	6.8K		R28 R309 R311 R129	4
111	Resistor Chip 0402 5%	9.1K		R83	1
112	Resistor Chip 0402 5%	10K		R3 R16 R35 R52 R110 R122 R131 R75	8
113	Resistor Chip 0402 5%	15K			0
114	Resistor Chip 0402 5%	18K		R80 R7	2
115	Resistor Chip 0402 5%	22K		R23 R24 R128 R113 R29 R73	6
116	Resistor Chip 0402 5%	27K		R60	1
117	Resistor Chip 0402 5%	33K		R127	1
118	Resistor Chip 0402 5%	47K		R51 R62 R109	3
119	Resistor Chip 0402 5%	56K		R76 R93	2
120	Resistor Chip 0402 5%	68K		R12	1
121	Resistor Chip 0402 5%	91K		R94	1
122	Resistor Chip 0402 5%	100K		R22 R32 R44 R46 R50 R57 R59 R61 R65 R66 R67 R69 R87 R88 R90 R95 R99 R108 R126 R135	20
123	Resistor Chip 0402 1%	100K 1%		R26	1
124	Resistor Chip 0402 5%	150K		R17	1
125	Resistor Chip 0402 5%	180K		R48 R74	2
126	Resistor Chip 0402 5%	220K		R37 R38 R39 R54	4
127	Resistor Chip 0402 5%	330K		R119	1
128	Resistor Chip 0402 5%	470K		R18 R63 R101 R136	4
129	Resistor Chip 0402 1%	470K 1%		R47	1
130	Resistor Chip 0402 5%	560K		R86 R49	2
131	Resistor Chip 0402 5%	680K		R20 R115	2
132	Resistor Chip 0402 5%	1M		R27 R214 R216 R40	4
133	Resistor Chip 0402 5%	1.8M		R85 R89	2
134	Resistor Chip 0402 5%	2.2M		R207	1
135	Resistor Chip 0402 5%	4.7M		R68	1
136	Thermistor 0603	100(TM)	MURADA	R4	1
137	Semifixed Resistor 5K(B) 3mm	EVM3YSX50BE4 5KB	MURADA	RV1 RV2	2
138	Transistor Chip	2SC4226(R25)	NEC	Q301 Q302	2

139	Transistor Chip	BFQ67W(Vishay)	Vishay	Q11 Q3 Q4	3
140	Transistor Chip	KRA226S	KEC	Q13 Q16 Q18 Q24	4
141	Transistor Chip	KRA304E	KEC	Q20	1
142	Transistor Chip	KRA306E	KEC	Q10	1
143	Transistor Chip	KRC246S	KEC	Q9	1
144	Transistor Chip	KRC404E	KEC	Q2 Q5 Q25	3
145	Transistor Chip	KRC405E	KEC	Q15 Q17 Q19 Q21 Q22 Q23 Q26	7
146	Transistor Chip	KTA2014E	KEC	Q7	1
147	Transistor PA	TMF8901F	Daytronics	Q1	1
148	Transistor Chip	THN6501U	Daytronics	Q6 Q8 Q12	3
149	CHIP TRIMER CAP (10pF)	STC3M10-T1(WHITE)	STD	CT201	1
150	Ceramic filter	LTM450HTW	Shoulder	CF3	1
151	IFT COIL 450KHz 5pin	5mm IFT 450KHz	FINE	IFT1	1
152	X-tal Filter UM-5 42.35MHz	42.35MHz	Shoulder	CF1	1
153	450MHz~470MHz 150 ohm Semi-SMT	SAW Filter	Shoulder	SF1	1
154	X-tal 49/S 8MHz +/-20ppm	8MHz	Shoulder	CX201	1
155	X-tal 49/2 +/-2.5ppm	20.95MHz	Yokotan	X202	1
156	SPEAKER (32Φ) 16 ohm	32A550-16B(I)-4B13	ASAHI		1
157	Antenna Spring	GMRS7015RC ANT	Chen Sheng	ANT1	1
158	Tack SW	TS-27-BS-DG	CHIFUNG	SW2 SW13	2
159	Tack SW SMT - 180g	TS-111EM(white)	Hengrong	SW4	1

* MECH Parts					
1	FRONT COVER ABS/ black				1
2	BACK COVER ABS/BLACK WITH INSERT NUT				1
3	BATT. COVER ABS/BLACK				1
4	PANEL ABS/ Black - silver spray				1
5	DIFFUSER ACRYL(CLEAR)				1
6	WINDOW ACRYL(CLEAR) - red silk				1
7	Antenna Tube(sleeve)				1
8	BELT CLIP				1
9	KEYPAD SILICONE RUBBER				1
10	PTT/MON BUTTON, SILICONE RUBBER				1
11	SPK CAP, NBR				1
12	LIGHT BUTTON				1
13	ZEBRA				1
14	INSERT, REAR				1
15	STUD SCREW BsBm				1
16	LCD BRACKET SPTE0.3T				1
17	VCO CAN SPTE0.3T				1
18	SHIELD SHEET SPTE 10.5 * 6.5 * 0.2T				1
19	R-BATT TERMINAL (+,-) SUS304 Au-PLATE				2
20	CHARGER TERMINAL (-) SPTE T0.2 Au-PLATE				1
21	CHARGER TERMINAL (+) SPTE T0.2 Au-PLATE				1
22	BATTERY TERMINAL (-) SUS304 Au-PLATE				1
23	BATTERY TERMINAL (+) SUS304 Au-PLATE				1
24	L-BATT TERMINAL (+,-) SUS304 Au-PLATE				2
25	TAPTITE SCREW T2*8 1S BLACK				6
26	TAPTITE SCREW T2*6 3S BLACK				1
27	FELT SPK				1
28	MIC-CUSHION, PORON 0.1T D9.0*4.0, BLACK				1
29	SPONGE FOR BATTERY COVER				1
30	LCD BRACKET CUSHION				1
31	WHITE SHEET POLYESTER(PET) T=0.1				1
32	WINDOW TAPE (DOUBLE-SIDE TAPE)				1
33	HOLOGRAM SHEET FOR LOGO				1
34	LCD Protective sheet				1
35	Name Label				1
36	Name Barcord Label				1

GMRS7015RC

SEMICONDUCTOR DESIGNATIONS AND FUNCTIONS

Designator	Description	Application
D1	KDS114E	RX / TX switch
D2	KDS114E	RX / TX Switch
D3	KDS120	Charger Switch
D4	KDS114E	SQ Detector
D5	KDS114E	Disconnect charger adapter B+
D7	KDS114E	VOX Detector
D25	KDS120	Charger Switch
D301	KDS114E	VCO RX / TX Switch
D302	MA2S372	VCO OSC
LED1	SML210MT	Backlit LED
LED2	3BCLSC26	Light
IC1	LM324	OP Amp
IC2	LM386	Speaker Amp
IC3	XC6201B402MR	4V Regulator
IC4	LM324	OP Amp
IC5	DBL5018	2'nd Mixer and Audio Demodulator
IC6	XC61CN2402MR	Reset
IC7	GP214D	PLL
IC8	AT93C46	EEPROM
CPU1	TMP86CH21U	Micro-controller
Q1	TMF8901F	TX PA
Q2	KRC404E	Speaker Amp enable
Q3	BFQ67W	TX Driver
Q4	BFQ67W	TX Driver
Q5	KRC404E	CTCSS limiter
Q6	THN6501S	LNA
Q7	KTA2014E	PTT Switch
Q8	THN6501S	Mixer
Q9	KRC246S	RX Mute
Q10	KRA306E	RX B+ Switch
Q11	BFQ67W	TX Pre-driver
Q12	THN6501S	IF Amp

GMRS7015RC
SEMICONDUCTOR DESIGNATIONS AND FUNCTIONS

Designator	Description	Application
-------------------	--------------------	--------------------

Q13	KRA226	TX B+ Switch
Q15	KRC405E	RX B+ Mute
Q16	KRA226S	Speaker Amp. Enable
Q17	KRC405E	TX Audio Mute
Q18	KRA226S	Main B+ Switch
Q19	KRC405E	VCO RX / TX Switch
Q20	KRA304E	VCO B+ Switch
Q21	KRA306E	TX Power Hi/Low control
Q22	KRA306E	TX Power Hi/Low control
Q23	KRC405E	RX / TX Switch
Q24	KRA226	Charger Enable
Q25	KRC404E	Charger Enable
Q26	KRC405E	Charger detector
Q301	2SC4226	VCO
Q302	2SC4226	VCO