

05 SEP 2002

MODE NO : GMRS1100B,EBC700 IMA  
 MAIN BOARD/RF BOARD  
 (6V)

22 CHANNELS/38CTCSS/VOX HAND-HELD WITHOUT CHG  
 GENERAL MOBILE RADIO SERVICE  
 << ELECTRONIC PART ONLY >>

DATE: SEP 2 2002 REV. 1.1  
 MEASURED : TONY CHEUNG  
 FILE : C:\BOM\GMRS1100B-EBC700

No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
1			<MAIN P.C.BOARD ASS'Y >			
2						
3		<< SMT PARTS FOR MAIN BOARD >>				
4						
5	010GMRS1100B01	PCB	MAIN P.C. BOARD GMRS1100B	1		FOUR LAYER THICKNESS : 1mm
6						
7						
8						
9	0190813	I.C. CHIPS (CPU)	UPD789445GK-9ET	1		U202
10						
11	0190656	I.C. CHIP (AF AMP)	K1A6278F	1		U205
12						
13	0190506	I.C. CHIP (REG.)	XC62FP3302PR	1		U201
14						
15	0190511	I.C. CHIP (EEPROM)	AT93C46R-10SC-1.8	1		U203
16						
17	0190583	I.C. CHIP (OP AMP)	BA10324AFV	1		U204
18						
19	0190814	I.C. CHIP (OP AMP)	NJM2072M	1		U206
20						
21	0230325	CHIP TRANSISTOR	DTA114TETL	5		Q201,Q202,Q204,Q205,Q210
22						
23	0230283	CHIP TRANSISTOR	2SA1036KT146R	1		Q203
24						
25						
26						
27	0230323	CHIP TRANSISTOR	2SC4617TLR	9		Q209,Q212,Q215,Q216,Q217,Q218,Q219,Q220, Q221
28						
29	0230326	CHIP TRANSISTOR	DTC114TETL	4		Q208,Q211,Q213,Q214
30						
31	0200129	CHIP DIODE	KDS184	1		D202
32						
33	0200170	CHIP DIODE	RLS4148	1		D204
34						
35	0670062B	CHIP LED	KPT-1608SRC (RED)	1		LED201
36						
37	0670068	CHIP LED	KPA-3010CGCK (GREEN)	1		LED203
38						
39	0670069	CHIP LED	KPA-3010CGCK-PF (GREEN)	1		LED202
40						
41	0290068H	SEMI-FIXED	MVR34 HXBR N103 10K	2		R292,R304
42						
43	0761016	CONNECTOR(F)	2 X 7 POSITIONS 2200SB-14SG-SMG-SM-45	1		BOARD TO BOARD
44						
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No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
51						
52	014220CCOGJ5003	CERAMIC CAP.	GRM39C0G220J50PT 22P NPO +/-5% 50V 0603	2	C213,C214	
53						
54	014470CCOGJ5003	CERAMIC CAP.	GRM39C0G470J50PT 47P NPO +/-5% 50V 0603	2	C238,C252	
55						
56	014101CCOGJ5003	CERAMIC CAP.	GRM39C0G101J50PT 100P NPO +/-5% 50V 0603	1	C240	
57						
58	014221CCOGJ5003	CERAMIC CAP.	GRM39C0G221J50PT 220P NPO +/-5% 50V 0603	1	C257	
59						
60	014561CCOGJ5003	CERAMIC CAP.	GRM39C0G561J50PT 560P NPO +/-5% 50V 0603	1	C228	
61						
62	014102BX7RK5003	CERAMIC CAP.	GRM39X7R102K50PT 0.001UF X7R +/-10% 50V 0603	9	C203,C204,C221,C231,C241,C246,C249,C255,CRES	
63						
64	014182BX7RK5003	CERAMIC CAP.	GRM39X7R182K50PT 0.0018UF X7R +/-10% 50V 0603	1	C268	
65						
66	014222BX7RK5003	CERAMIC CAP.	GRM39X7R222K50PT 0.0022UF X7R +/-10% 50V 0603	1	C226	
67						
68	014332BX7RK5003	CERAMIC CAP.	GRM39X7R332K50PT 0.0033UF X7R +/-10% 50V 0603	1	C266	
69						
70	014472BX7RK5003	CERAMIC CAP.	GRM39X7R472K50PT 0.0047UF X7R +/-10% 50V 0603	5	C210,C211,C212,C235,C259	
71						
72	014682BX7RK5003	CERAMIC CAP.	GRM39X7R682K50PT 0.0068UF X7R +/-10% 50V 0603	1	C258	
73						
74	014103BX7RK5003	CERAMIC CAP.	GRM39X7R103K50PT 0.01UF X7R +/-10% 50V 0603	8	C201,C205,C225,C234,C245,C263,C265,C267	
75						
76	014183BX7RK1603	CERAMIC CAP.	GRM39X7R183K16PT 0.018UF X7R +/-10% 16V 0603	1	C220	
77						
78	014333BX7RK1603	CERAMIC CAP.	GRM39X7R333K16PT 0.033UF X7R +/-10% 16V 0603	1	C227	
79						
80	014393BX7RK1603	CERAMIC CAP.	GRM39X7R393K16PT 0.039UF X7R +/-10% 16V 0603	3	C222,C223,C224	
81						
82	014473BX7RK1603	CERAMIC CAP.	GRM39X7R473K16PT 0.047UF X7R +/-10% 16V 0603	3	C218,C233,C262	
83						
84	014823BX7RK1603	CERAMIC CAP.	GRM39X7R823K16PT 0.082UF X7R +/-10% 16V 0603	1	C229	
85						
86	014104BX7RK1603	CERAMIC CAP.	GRM39X7R104K16PT 0.1UF X7R +/-10% 16V 0603	9	C215,C230,C236,C237,C253,C254,C260,C261,C269	
87						
88						
89						
90	014474BY5VZ1603	CERAMIC CAP.	GRM39Y5V474Z16PT 0.47UF Y5V +80/-20% 16V 0603	1	C209	
91						
92	014105BX7RK1602	CERAMIC CAP.	GRM39X7R105K10PT 1UF X7R +/-10% 16V 0805	1	C248	
93						
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No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
101						
102	022000J163	CHIP RESISTOR	0 OHM 1/16W + / -5% 0603	8	R204,R207,C216,R230,R231,R256,R294,RPTT	
103						
104	022470J163	CHIP RESISTOR	47 OHM 1/16W + / -5% 0603	1	R270	
105						
106	022101J163	CHIP RESISTOR	100 OHM 1/16W + / -5% 0603	2	R235,R236	
107						
108	022471J163	CHIP RESISTOR	470 OHM 1/16W + / -5% 0603	3	R237,R263,R264	
109						
110	022102J163	CHIP RESISTOR	1K OHM 1/16W + / -5% 0603	7	R259,R265,R266,R267,R272,R275,R277	
111						
112	022152J163	CHIP RESISTOR	1.5K OHM 1/16W + / -5% 0603	2	R280,R284	
113						
114	022222J163	CHIP RESISTOR	2.2K OHM 1/16W + / -5% 0603	4	R205,R250,R253,R274	
115						
116	022332J163	CHIP RESISTOR	3.3K OHM 1/16W + / -5% 0603	2	R251,R269	
117						
118	022392J163	CHIP RESISTOR	3.9K OHM 1/16W + / -5% 0603	1	R245	
119						
120	022472J163	CHIP RESISTOR	4.7K OHM 1/16W + / -5% 0603	4	R278,R286,R287,R288	
121						
122	022103J163	CHIP RESISTOR	10K OHM 1/16W + / -5% 0603	10	R242,R244,R261,R262,R281,R283,R285, R291,R298,R305	
123						
124						
125	022223J163	CHIP RESISTOR	22K OHM 1/16W + / -5% 0603	4	R252,R279,R282,R301	
126						
127	022393J163	CHIP RESISTOR	39K OHM 1/16W + / -5% 0603	1	R276	
128						
129	022473J163	CHIP RESISTOR	47K OHM 1/16W + / -5% 0603	7	R243,R289,R290,R293,R297,R299,R300	
130						
131	022104J163	CHIP RESISTOR	100K OHM 1/16W + / -5% 0603	24	R210,R211,R212,R213,R215,R216,R217,R218,R219, R220,R221,R226,R227,R228,R234,R254,R255, R258,R260,R273,R295,R296,R302,R303	
132						
133						
134						
135	022154J163	CHIP RESISTOR	150K OHM 1/16W + / -5% 0603	3	R247,R248,R249	
136						
137	022224J163	CHIP RESISTOR	220K OHM 1/16W + / -5% 0603	5	R222,R223,R224,R225,R229	
138						
139	022334J163	CHIP RESISTOR	330K OHM 1/16W + / -5% 0603	1	R246	
140						
141	022474J163	CHIP RESISTOR	470K OHM 1/16W + / -5% 0603	2	R202,R203	
142						
143	022105J163	CHIP RESISTOR	1M OHM 1/16W + / -5% 0603	3	R232,R233,R268	
144						
145	022680J10	CHIP RESISTOR	68 OHM 1/10W + / -5% 0805	1	R271	
146						
147						
148						
149	<< END OF SMT PARTS FOR MAIN BOARD >>					
150						

No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
151						
152	0360016	CRYSTAL	4.00MHZ SQO-2003	1	X201	
153						
154	071MA437	LCD	MA437	1	LCD201	
155						
156	032CZ034CP	CONDENSOR MIC	CZ034CP362	1	J203	
157						
158	0270086A	JACK STEREO	ST-101-06 D=2.5MM SMT TYPE	1	J202	
159						
160	0300153	SPEAKER	36B2-34'50h(-2)-8 ohm-BY 36mm 8 OHM 1W	1	J201	
161						
162	0260332A	TACT SWITCH	TC-SMD02N	2	K1,K8	
163						
164	0210156A	VOLUME W/ SW	RV091NS-B10K-15KQ ( WITH SW )	1	R201	
165						
166	017470503YEC	ELECT.CAP	0.47u 50V GEN. PUR. (4X 5)	1	C250	
167						
168	017221254YEC	ELECT.CAP	2.2u 25V GEN. PUR. (3X 5)	1	C219	
169						
170	017102164YEC	ELECT.CAP	10u 16V GEN. PUR. (3X 5)	5	C232,C239,C247,C256,C264	
171						
172	017103102YEC	ELECT.CAP	100u 10V GEN. PUR. (5X 7)	1	C206	
173						
174	017103103YEC	ELECT.CAP	100u 10V GEN. PUR. (6.3X 5.5)	3	C202,C242,C244	
175						
176	037EBC500230AA	PCB BRACKET	9mm HIGH	1		
177						
178	084RS110014	LCD BRACKET	0.3mm STEEL PLATE	1		
179						
180	058RS110012	ZEBRA CONNECTOR		1		
181						
182	03701100B490AA	DIFFUSE MOULDED CLEAR SAN		1		
183						
184	0420225	FELT PAPER 17X28X0.2mm WITH TAPE		1		
185						
186	057GMRS110005	AL. FOIL 16X27mm WITH TAPE		1		
187						
188	0886090DH	JUMPER WIRE	UL1571 #28 L=50mm BLK	0.05	SPEAKER-	
189						
190	0886093DH	JUMPER WIRE	UL1571 #28 L=50mm ORG	0.05	SPEAKER+	
191						
192	1360001	COAXIAL CONNECTOR	TNC SOCKET EXTERNAL ASSEMBLY	1		
193						
194	0120101	RUBBER ANTENNA	RA-14101 (M2-002/A-1)	1		
195						
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197						
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No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
201			<RF P.C.BOARD ASS'Y >			
202						
203		<< SMT PARTS FOR RF BOARD >>				
204						
205	010GMRS1100B02	PCB	RF P.C. BOARD GMRS1100B REV 1	1		FOUR LAYER THICKNESS : 1mm
206						
207	0190811	I.C. CHIP	S1T3361D	1		U1
208						
209	0190812	I.C. CHIP	S1T8825B	1		U2
210						
211	0230285	CHIP TRANSISTOR	2SC5066/0	4		Q1,Q2,Q3,Q102
212						
213	0230350	CHIP TRANSISTOR	KTC4080	1		Q4
214						
215	0230286	CHIP TRANSISTOR	2SC4226(R24)	3		Q5,Q6,Q101
216						
217	0230367	CHIP TRANSISTOR	2SC3356R24-TB	1		Q7
218						
219	0230352	CHIP TRANSISTOR	DTC115EE	1		Q8
220						
221	0230395	CHIP TRANSISTOR	NE5510279A	1		Q9
222						
223	0230323	CHIP TRANSISTOR	2SC4617TLR	1		Q103
224						
225	0200144	CHIP DIODE	XB15A709A0HR	1		D1
226						
227	0200137	CHIP DIODE	DAN235UT106	2		D2,D7
228						
229	0200102	CHIP DIODE	1SS302	2		D3,D102
230						
231	0200103	CHIP DIODE	1SS356TW11	1		D4
232						
233	0200101	CHIP DIODE	MA728	2		D5,D6
234						
235	0200107	CHIP DIODE	1SV279	1		D101
236						
237	0290073H	SEMI-FIXED	MVR34 HXBR N102	1K		RLOPWR
238						
239	0290069H	SEMI-FIXED	MVR34 HXBR N473	47K		R25
240						
241	1040002A	TRIMMER	ECRKN020E61W	1		C43
242						
243	0110274	CHIP INDUCTOR	0603-27NJ 27nH	2		L5,L7
244						
245	0110263C	CHIP INDUCTOR	CI-B1608-100KJT 10nH	1		L6
246						
247	0110268C	CHIP INDUCTOR	CI-B1608-470KJT 47nH	1		L8
248						
249	0110315A	CHIP INDUCTOR	FI-B1608-152 1.5uH	1		L9
250						

No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
251						
252	0110282	CHIP INDUCTOR	CI-B1608-220KJT 22nH	3	L10,L11,L102	
253						
254	0110264	CHIP INDUCTOR	0603-15NJ 15nH	1	L12	
255						
256	0110401	CHIP INDUCTOR	CI-B1608-10NKJT 1nH	1	L15	
257						
258	0110295	CHIP INDUCTOR	CI-B1608-101KJT 100nH	1	L18	
259						
260	014005CCOGJ5003	CERAMIC CAP.	GRM39C0G0R5C50PT 0.5P NPO +/-0.25P 50V 0603	1	C21	
261						
262	014010CCOGJ5003	CERAMIC CAP.	GRM39C0G010C50PT 1P NPO +/-0.25P 50V 0603	1	C53	
263						
264	014015CCOGJ5003	CERAMIC CAP.	GRM39C0G1R5C50PT 1.5P NPO +/-0.25P 50V 0603	2	C7,C111	
265						
266	014030CCOGJ5003	CERAMIC CAP.	GRM39C0G030C50PT 3P NPO +/-0.25P 50V 0603	4	C3,C5,C9,C52	
267						
268	014050CCOGJ5003	CERAMIC CAP.	GRM39C0G050C50PT 5P NPO +/-0.25P 50V 0603	4	C24,C105,C106,C107	
269						
270	014060CCOGJ5003	CERAMIC CAP.	GRM39C0G060C50PT 6P NPO +/-0.25P 50V 0603	1	C2	
271						
272	014070CCOGJ5003	CERAMIC CAP.	GRM39C0G070C50PT 7P NPO +/-0.25P 50V 0603	1	C83	
273						
274	014080CCOGJ5003	CERAMIC CAP.	GRM39C0G080D50PT 8P NPO +/-0.5P 50V 0603	1	C25	
275						
276	014100CCOGJ5003	CERAMIC CAP.	GRM39C0G100D50PT 10P NPO +/-0.5 50V 0603	5	C6,C49,C59,C60,C66	
277						
278	014120CCOGJ5003	CERAMIC CAP.	GRM39C0G120J50PT 12P NPO +/-5% 50V 0603	4	C8,C15,C70,C82	
279						
280	014150CCOGJ5003	CERAMIC CAP.	GRM39C0G150J50PT 15P NPO +/-5% 50V 0603	2	C4,C102	
281						
282	014220CCOGJ5003	CERAMIC CAP.	GRM39C0G220J50PT 22P NPO +/-5% 50V 0603	2	C12,C17	
283						
284	014240CCOGJ5003	CERAMIC CAP.	GRM39C0G240J50PT 24P NPO +/-5% 50V 0603	1	C18	
285						
286	014330CCOGJ5003	CERAMIC CAP.	GRM39C0G330J50PT 33P NPO +/-5% 50V 0603	1	C22	
287						
288	014390CCOGJ5003	CERAMIC CAP.	GRM39C0G390J50PT 39P NPO +/-5% 50V 0603	1	C35	
289						
290	014470CCOGJ5003	CERAMIC CAP.	GRM39C0G470J50PT 47P NPO +/-5% 50V 0603	7	C11,C13,,C51,C58,C109,C114,C120	
291						
292	014560CCOGJ5003	CERAMIC CAP.	GRM39C0G560J50PT 56P NPO +/-5% 50V 0603	1	C44	
293						
294	014101CCOGJ5003	CERAMIC CAP.	GRM39C0G101J50PT 100P NPO +/-5% 50V 0603	3	C45,C46,C101	
295						
296						
297						
298	014471CCOGJ5003	CERAMIC CAP.	GRM39C0G471J50PT 470P NPO +/-5% 50V 0603	1	C10	
299						
300						

No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
301						
302	014102BX7RK5003	CERAMIC CAP.	GRM39X7R102K50PT 0.001UF X7R +/-10% 50V 0603	22	C1,C14,C16,C19,C20,C26,C28,C31,C34,C36,C48,C50, C61,C64,C67,C74,C79,C86,C110,C112,C113,C116	
303						
304						
305	014472BX7RK5003	CERAMIC CAP.	GRM39X7R472K50PT 0.0047UF X7R +/-10% 50V 0603	1	C54	
306						
307	014103BX7RK5003	CERAMIC CAP.	GRM39X7R103K50PT 0.01UF X7R +/-10% 50V 0603	5	C23,C27,C29,C39,C41	
308						
309	014473BX7RK1603	CERAMIC CAP.	GRM39X7R473K16PT 0.047UF X7R +/-10% 16V 0603	1	C56	
310						
311	014104BX7RK1603	CERAMIC CAP.	GRM39X7R104K16PT 0.1UF X7R +/-10% 16V 0603	5	C32,C33,C37,C47,C57	
312						
313	014334BX7RK1602	CERAMIC CAP.	GRM40X7R334K16PT 0.33UF X7R +/-10% 16V 0805	1	C42	
314						
315	022000J163	CHIP RESISTOR	0 OHM 1/16W + / -5% 0603	6	R17,R33,R46,C73,RPWR,RFIL	
316						
317	022100J163	CHIP RESISTOR	10 OHM 1/16W + / -5% 0603	5	R5,R40,R43,R107,R109	
318						
319	022470J163	CHIP RESISTOR	47 OHM 1/16W + / -5% 0603	1	R3	
320						
321	022101J163	CHIP RESISTOR	100 OHM 1/16W + / -5% 0603	3	R23,R29,R43	
322						
323	022151J163	CHIP RESISTOR	150 OHM 1/16W + / -5% 0603	1	R48	
324						
325	022271J163	CHIP RESISTOR	270 OHM 1/16W + / -5% 0603	1	R8	
326						
327	022331J163	CHIP RESISTOR	330 OHM 1/16W + / -5% 0603	1	R106	
328						
329	022471J163	CHIP RESISTOR	470 OHM 1/16W + / -5% 0603	1	R13	
330						
331	022821J163	CHIP RESISTOR	820 OHM 1/16W + / -5% 0603	2	R9,R10	
332						
333	022102J163	CHIP RESISTOR	1K OHM 1/16W + / -5% 0603	6	R12,R26,R27,R44,R47,R103	
334						
335	022122J163	CHIP RESISTOR	1.2K OHM 1/16W + / -5% 0603	1	R101	
336						
337	022152J163	CHIP RESISTOR	1.5K OHM 1/16W + / -5% 0603	1	R4	
338						
339	022222J163	CHIP RESISTOR	2.2K OHM 1/16W + / -5% 0603	5	R1,R6,R32,R37,R50	
340						
341	022332J163	CHIP RESISTOR	3.3K OHM 1/16W + / -5% 0603	2	R34,R105	
342						
343	022472J163	CHIP RESISTOR	4.7K OHM 1/16W + / -5% 0603	6	R24,R35,R36,R39,R41,R110	
344						
345	022682J163	CHIP RESISTOR	6.8K OHM 1/16W + / -5% 0603	1	R42	
346						
347	022822J163	CHIP RESISTOR	8.2K OHM 1/16W + / -5% 0603	1	R38	
348						
349	022103J163	CHIP RESISTOR	10K OHM 1/16W + / -5% 0603	3	R21,R24,R104	
350						

No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
351						
352	022183J163	CHIP RESISTOR	18K OHM 1/16W + / -5% 0603	1		R2
353						
354	022223J163	CHIP RESISTOR	22K OHM 1/16W + / -5% 0603	1		R28
355						
356	022273J163	CHIP RESISTOR	27K OHM 1/16W + / -5% 0603	1		R15
357						
358	022473J163	CHIP RESISTOR	47K OHM 1/16W + / -5% 0603	1		R111
359						
360	022823J163	CHIP RESISTOR	82K OHM 1/16W + / -5% 0603	1		R108
361						
362	022104J163	CHIP RESISTOR	100K OHM 1/16W + / -5% 0603	1		R22
363						
364	022154J163	CHIP RESISTOR	150K OHM 1/16W + / -5% 0603	3		R7,R11,R30
365						
366	022474J163	CHIP RESISTOR	470K OHM 1/16W + / -5% 0603	1		R20
367						
368	022684J163	CHIP RESISTOR	680K OHM 1/16W + / -5% 0603	1		R102
369						
370	0761017	CONNECTOR(M)	2 X 7 PIN 2199SBDI-14SG-SM-75	1		BOARD TO BOARD
371						
372	<< END OF SMT PARTS FOR RF BOARD >>					
373						
374						
375						
376	017101504YEC	ELECT.CAP	1u 50V GEN. PUR. ( 3X 5 )	1		C38
377						
378	017331254YEC	ELECT.CAP	3.3u 25V GEN. PUR. ( 3X 5 )	1		C55
379						
380	017102104YEC	ELECT.CAP	10u 10V GEN. PUR. ( 3X 5 )	3		C62,C80,C115
381						
382	017332044YEC	ELECT.CAP	33u 4V GEN. PUR. ( 3X 5 )	1		C30
383						
384						
385						
386	0160063A	SAW FILTER	BTF-465A ( SMT )	1		FL1
387						
388	0360018	CRYSTAL FILTER	21.7MHz UMF-7182	1		FL2
389						
390	0160054	CER. FILTER	LTM450GW	1		FL3
391						
392	0360017	CRYSTAL	21.250MHz SQO-2002 ( PLL REF)	1		X1
393						
394	0160079	CER.DISCRIMINATOR	JTBM450C18	1		Y1
395						
396	0760899	HEADER	6604S-02-T 2 PIN ST. 2.54 PITCH	1		J1
397						
398						
399						
400						



