

MAIN BOARD 6V

UL

FAMILY RADIO SYSTEM USA

MEASURED : TONY CHEUNG

&lt;&lt; ELECTRONIC PART ONLY &gt;&gt;

FILE : C:\BOMB\BU80-MK1800

No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
1			<MAIN P.C.BOARD ASS'Y >			
2						
3	010FRS80U01	PCB	MAIN P.C. BOARD FRS80U REV-A	1	TWO LAYER THICKNESS : 1mm	ART
4						
5		VCO ASSEMBLY	VCO BOARD ASSEMBLY	1		
6						
7	0190584	I.C. CHIPS	BA4116FV-E2	1	U201	ROHM
8		<OR>				
9	0190510	I.C. CHIPS	TA31136FN			TOSHIBA
10						
11	0190509	I.C. CHIPS (PLL)	TB31202FN	1	U601	TOSHIBA
12						
13	0190783	I.C. CHIPS (CPU)	UPD789022GB	1	U3	NEC
14						
15	0190656	I.C. CHIP (AF AMP)	KIA6278F	1	U2	KEC
16						
17	0190505	I.C. CHIP (OP AMP)	TA75W01FU	1	U501	TOSHIBA
18						
19	0190506	I.C. CHIP (REG.)	XC62FP3302PR	1	U1	Torex
20						
21						
22						
23	0230349	CHIP TRANSISTOR	IMZ4T108	1	Q1	ROHM
24						
25	0230283	CHIP TRANSISTOR	2SA1036KT146R	3	Q7,Q17,Q503	ROHM
26						
27	0230285	CHIP TRANSISTOR	2SC5066/O	1	Q204	TOSHIBA
28						
29	0230350	CHIP TRANSISTOR	KTC4080	2	Q205,Q206	KEC
30						
31	0230286	CHIP TRANSISTOR	2SC4226(R24)	3	Q201,Q202,Q203	NEC
32						
33	0230323	CHIP TRANSISTOR	2SC4617TILR	16	Q2,Q3,Q4,Q5,Q11,Q12,Q301,Q302,Q303, Q304,Q305,Q306,Q502,Q504,Q505,Q506,	ROHM
34						
35						
36						
37	0230287	CHIP TRANSISTOR	BFG135A	1	Q101	SIEMENS
38						
39	0230288	CHIP TRANSISTOR	BFG425W	1	Q102	PHILIPS
40						
41	0230325	CHIP TRANSISTOR	DTA114TETL	2	Q8,Q9	ROHM
42						
43	0230351	CHIP TRANSISTOR	DTC114EETL	1	Q307	ROHM
44						
45	0230326	CHIP TRANSISTOR	DTC114TETL	2	Q6,Q501	ROHM
46						
47	0230352	CHIP TRANSISTOR	DTC115EETL	5	Q13,Q14,Q15,Q16,Q18	ROHM
48						
49						
50						

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No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
51						
52						
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54						
55	0200136	CHIP DIODE	1SV214	1	D601	TOSHIBA
56						
57	'0200102	CHIP DIODE	1SS302	1	D2	TOSHIBA
58						
59	0200103	CHIP DIODE	1SS356TW11	2	D3,D101	ROHM
60						
61	0200137	CHIP DIODE	DAN235UT106	1	D103	ROHM
62						
63	0200104	CHIP DIODE	MA116	1	D102	PANASONIC
64						
65	0200101	CHIP DIODE	MA728	3	D4,D501,D502	PANASONIC
66						
67	0200111	CHIP DIODE	MA729	1	D503	PANASONIC
68						
69	0200128	CHIP DIODE	1SR154-400TE25	1	D1	ROHMROHMROHMROHMRO
70						
71						
72	0110348	CHIP INDUCTOR	CW0805-6N8J 6.8nH	1	L102	MATSUTA
73						
74	0110349	CHIP INDUCTOR	CW0805-18NJ 18nH	2	L105,L205	MATSUTA
75						
76	0110350	CHIP INDUCTOR	CW0805-33NJ 33nH	1	L206	MATSUTA
77						
78	0110273	CHIP INDUCTOR	0603-39NJ 39nH	1	L209	MATSUTA
79	< OR >					
80	0110273C	CHIP INDUCTOR	CI-B1608-390KJT 39nH			CTC
81						
82	0110352	CHIP INDUCTOR	CW0805-47NJ 47nH	1	L103	MATSUTA
83						
84	0110351	CHIP INDUCTOR	CW0805-1R0J 1uH	4	L101,L104,L210,L211	MATSUTA
85						
86						
87						
88	0110287	FM COIL	E2-451403L 3T 9nH	4	L4,L5,L7,L8	GOLDCHEM
89						
90						
91						
92						
93						
94	0110317SMD	FMCOIL	E2-351604L 4T 19nH TAPE AND REEL	8	L1,L2,L3,L106,L201,L205,L207,L208	GOLDCHEM
95						
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No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
101						
102						
103	0360035	CRYSTAL	SQO2007(10.25MHZ) ( PLL REF)	1	X601	UNIDEN
104						
105	0160033	CER. RESONATOR	ZTT4.00MGW +/- 0.5%	1	X1	CHEQUERS
106						
107						
108						
109	0160053	CER.DISCRIMINATOR	JTBM450C24	1	X201	CHEQUERS
110						
111	0160054	CER. FILTER	LTM450GW	1	FL203	CHEQUERS
112						
113	0160071	CRYSTAL FILTER	10M07A 10.7MHZ	1	FL202	PROSPERITY
114						
115	0160063	SAW FILTER	CQSF465AS	1	FL201	CHEQUERS
116	< OR >					
117	0160063A	SAW FILTER	BTF465A(SMT)			BAOTONG
118						
119						
120						
121	0290073H	SEMI-FIXED	MVR34 HXBR N102 1K	1	VR601	ROHM
122						
123	0290068H	SEMI-FIXED	MVR34 HXBR N103 10K	1	VR301	ROHM
124	< OR >					
125	0290068HA	SEMI-FIXED	EVM3ESX50B14 10K			PANASONIC
126						
127	0290069H	SEMI-FIXED	MVR34 HXBR N473 47K	1	VR201	ROHM
128	< OR >					
129	0290069HA	SEMI-FIXED	EVM3ESX50BQ4 47K			PANASONIC
130						
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No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
151						
152						
153	014005CCOGJ5003	CERAMIC CAP.	GRM39C0G0R5C50PT 0.5P NPO +/-0.25P 50V 0603	1	C218	MURATA
154						
155						
156						
157	014015CCOGJ5003	CERAMIC CAP.	GRM39C0G1R5C50PT 1.5P NPO +/-0.25P 50V 0603	2	C212,C215	MURATA
158						
159	014020CCOGJ5003	CERAMIC CAP.	GRM39C0G020C50PT 2P NPO +/-0.25P 50V 0603	4	C202,C211,C214,C216	MURATA
160						
161	014030CCOGJ5003	CERAMIC CAP.	GRM39C0G030C50PT 3P NPO +/-0.25P 50V 0603	6	C9,C201,C203,C206,C213,C217	MURATA
162						
163						
164						
165	014050CCOGJ5003	CERAMIC CAP.	GRM39C0G050C50PT 5P NPO +/-0.25P 50V 0603	3	C101,C207,C221	MURATA
166						
167	014060CCOGJ5003	CERAMIC CAP	GRM39C0G060C50PT 6P NPO +/-0.5P 50V 0603	1	C103	MURATA
168						
169						
170						
171	014080CCOGJ5003	CERAMIC CAP.	GRM39C0G080D50PT 8P NPO +/-0.5P 50V 0603	2	C3,C7	MURATA
172						
173						MURATA
174						
175	014100CCOGJ5003	CERAMIC CAP.	GRM39C0G100D50PT 10P NPO +/-0.5 50V 0603	5	C5,C116,C225,C601,C603	MURATA
176						
177						
178						
179						
180						
181	014220CCOGJ5003	CERAMIC CAP.	GRM39C0G220D50PT 22P NPO +/-0.5 50V 0603	1	C124	MURATA
182						
183						
184						
185	014360CCOGJ5003	CERAMIC CAP.	GRM39C0G360D50PT 36P NPO +/-0.5 50V 0603	1	C615	MURATA
186						
187						
188						
189						
190						
191	014470CCOGJ5003	CERAMIC CAP.	GRM39C0G470J50PT 47P NPO +/-5% 50V 0603	9	C13,C19,C40,C109,C117,C220,C231,C233,C316	MURATA
192						
193	014560CCOGJ5003	CERAMIC CAP.	GRM39C0G560J50PT 56P NPO +/-5% 50V 0603	2	C607,C610	MURATA
194						
195						
196	014101CCOGJ5003	CERAMIC CAP.	GRM39C0G101J50PT 100P NPO +/-5% 50V 0603	3	C55,C65,C236	MURATA
197						
198						
199						
200						

No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
201						
202						
203	014221CCOGJ5003	CERAMIC CAP.	GRM39C0G221J50PT 220P NPO +/-5% 50V 0603	3	C240,C241,311	MURATA
204						
205	014471CCOGJ5003	CERAMIC CAP.	GRM39C0G471J50PT 470P NPO +/-5% 50V 0603	3	C8,C317,C621	MURATA
206						
207						
208						
209	014102BX7RK5003	CERAMIC CAP.	GRM39X7R102K50PT 0.001UF X7R +/-10% 50V 0603	46	C2,C10,C11,C12,C14,C18,C21,C27,C29,C30,C34, C38,C44,C48,C55,C59,C66,C68,C72,C102,C107, C110,C111,C112,C115,C119,C121,C204, C205,C208,C209,C219,C222,C223,C228,C232, C235,C238,C245,C247,C305,C314,C502,C510, C602,C605	MURATA
210						
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212						
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216						
217	014472BX7RK5003	CERAMIC CAP.	GRM39X7R472K50PT 0.0047UF X7R +/-10% 50V 0603	3	C46,C308,C619	MURATA
218						
219	014682BX7RK5003	CERAMIC CAP.	GRM39X7R682K50PT 0.0068UF X7R +/-10% 50V 0603	1	C310	MURATA
220						
221	014103BX7RK5003	CERAMIC CAP.	GRM39X7R103K50PT 0.01UF X7R +/-10% 50V 0603	11	C15,C26,C47,C57,C113,C114,C120,C229,C230, C244,C509	MURATA
222						
223						
224	014153BX7RK5003	CERAMIC CAP.	GRM39X7R103K50PT 0.015UF X7R +/-10% 50V 0603	1	C506	MURATA
225						
226						
227	014473BX7RK1603	CERAMIC CAP.	GRM39X7R473K16PT 0.047UF X7R +/-10% 16V 0603	6	C49,C50,C53,C54,C306,C504	MURATA
228						
229						
230						
231	014104BX7RK1603	CERAMIC CAP.	GRM39X7R104K16PT 0.1UF X7R +/-10% 16V 0603	7	C37,C43,C52,C242,C315,C507,C617,	MURATA
232						
233	014104BY5VZ2503	CERAMIC CAP.	GRM39Y5V104Z25PT 0.1UF Y5V +80/-20% 25V 0603.	8	C28,C234,C237,C302,C303,C307,C309,C620	MURATA
234						
235						
236						
237	014224BX7RK1003	CERAMIC CAP.	GRM39X7R224K10PT 0.22UF X7R +/-10% 10V 0603	1	C616	MURATA
238						
239						
240						
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244						
245	014334BX7RK1602	CERAMIC CAP.	GRM40X7R334K16PT 0.33UF X7R +/-10% 16V 0805	1	C312	MURATA
246	< OR >					
247		CERAMIC CAP.	EMK212BJ334KG 0.33UF X7R +/- 10% 16V 0805			TAIYO YUDEN
248						
249						
250						

No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
251	01510510MA02	CHIP TAN CAP	1U 10V ' A ' SIZE	5	TC301,TC304,TC313,TC503,TC513	
252						
253	01533506MA02	CHIP TAN CAP	3.3U 6.3V ' A ' SIZE	1	TC618	
254						
255	01547506MA02	CHIP TAN CAP	4.7U 6.3V ' A ' SIZE	2	TC45,TC508	
256						
257	01510606MA02	CHIP TAN CAP	10U 6.3V ' A ' SIZE	1	TC36	
258						
259						
260						
261						
262						
263	017332044YEC	ELECT.CAP	33u 4V GEN. PUR. ( 3X 5 )	1	EC243	YEC
264						
265	017103103YEC	ELECT.CAP	100u 10V GEN. PUR. ( 6.3X 5.5 )	5	EC17,EC20,EC31,EC33,EC604	YEC
266						
267	017103163YEC	ELECT.CAP	100u 16V GEN. PUR. ( 6.3 X5.5 )	2	EC16,EC108	YEC
268						
269						
270						
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No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
301						
302	022000J163	CHIP RESISTOR	0 OHM 1/16W + / -5% 0603	11	R1,R43,R55,R59,R108,R227,R318,R512,	
303					R605,R609,C122	
304	022100J163	CHIP RESISTOR	10 OHM 1/16W + / -5% 0603	1	R104	
305						
306	022220J163	CHIP RESISTOR	22 OHM 1/16W + / -5% 0603	2	R202,R207	
307						
308	022470J163	CHIP RESISTOR	47 OHM 1/16W + / -5% 0603	2	R21,R102	
309						
310	022101J163	CHIP RESISTOR	100 OHM 1/16W + / -5% 0603	2	R205,R213,	
311						
312	022151J163	CHIP RESISTOR	150 OHM 1/16W + / -5% 0603	2	R101,R209	
313						
314	022221J163	CHIP RESISTOR	220 OHM 1/16W + / -5% 0603	1	R26	
315						
316	022271J163	CHIP RESISTOR	270 OHM 1/16W + / -5% 0603	12	R44,R45,R46,R47,R48,R49,R50,R51,R52,R53,	
317					R216,R220	
318	022471J163	CHIP RESISTOR	470 OHM 1/16W + / -5% 0603	3	R27,R29,R36	
319						
320	022561J163	CHIP RESISTOR	560 OHM 1/16W + / -5% 0603	1	R604	
321						
322	022681J163	CHIP RESISTOR	680 OHM 1/16W + / -5% 0603	1	R217	
323						
324	022821J163	CHIP RESISTOR	820 OHM 1/16W + / -5% 0603	1	R103	
325						
326	022102J163	CHIP RESISTOR	1K OHM 1/16W + / -5% 0603	13	R4,R23,R28,R62,R303,R501,R513,R514,R517,	
327					R520,R606,R607,R608	
328	022122J163	CHIP RESISTOR	1.2K OHM 1/16W + / -5% 0603	1	R218	
329						
330	022152J163	CHIP RESISTOR	1.5K OHM 1/16W + / -5% 0603	4	R223,R305,R309,R516	
331						
332						
333						
334	022222J163	CHIP RESISTOR	2.2K OHM 1/16W + / -5% 0603	10	R2,R22,R24,R25,R56,R61,R111,R112,R210,R228	
335						
336	022332J163	CHIP RESISTOR	3.3K OHM 1/16W + / -5% 0603	4	R20,R39,R105,R225,	
337						
338						
339						
340						
341	022472J163	CHIP RESISTOR	4.7K OHM 1/16W + / -5% 0603	5	R35,R60,R302,R310,R311,	
342						
343	022682J163	CHIP RESISTOR	6.8K OHM 1/16W + / -5% 0603	1	R312	
344						
345						
346						
347	022103J163	CHIP RESISTOR	10K OHM 1/16W + / -5% 0603	18	R3,R5,R30,R31,R34,R37,R40,R106,R306,	
348					R308,R314,R316,R503,R506,R509,R510,	
349					R515,R603	
350						

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No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
351						
352	022223J163	CHIP RESISTOR	22K OHM 1/16W + / -5% 0603	4	R304,R307,R502,R601	
353						
354	022273J163	CHIP RESISTOR	27K OHM 1/16W + / -5% 0603	1	R38	
355						
356	022333J163	CHIP RESISTOR	33K OHM 1/16W + / -5% 0603	3	R518,R519,R610	
357						
358	022393J163	CHIP RESISTOR	39K OHM 1/16W + / -5% 0603	1	R301	
359						
360	022473J163	CHIP RESISTOR	47K OHM 1/16W + / -5% 0603	7	R8,R201,R221,R313,R315,R317,R521	
361						
362						
363						
364	022104J163	CHIP RESISTOR	100K OHM 1/16W + / -5% 0603	7	R7,R15,R319,R321,R504,R507,R508	
365						
366						
367	022124J163	CHIP RESISTOR	120K OHM 1/16W + / -5% 0603	1	R206	
368						
369	022154J163	CHIP RESISTOR	150K OHM 1/16W + / -5% 0603	5	R32,R214,R230,R505,R511,	
370						
371	022224J163	CHIP RESISTOR	220K OHM 1/16W + / -5% 0603	5	R10,R13,R16,R224,R522	
372						
373	022274J163	CHIP RESISTOR	270K OHM 1/16W + / -5% 0603	3	R9,R14,R226	
374						
375						
376						
377	022334J163	CHIP RESISTOR	330K OHM 1/16W + / -5% 0603	2	R33,R229	
378						
379	022474J163	CHIP RESISTOR	470K OHM 1/16W + / -5% 0603	7	R6,R11,R12,R17,R18,R211,R320	
380						
381						
382						
383						
384						
385	022331J10	CHIP RESISTOR	330 OHM 1/10W + / -5% 0805	1	R19	
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No	PART NO.	DESCRIPTION	SPECIFICATION	QTY.	LOCATION	REMARK
401						
402						
403						
404	0300153	SPEAKER	36B2-34'50h(-2)-8 ohm-BY 36mm 8 ohm 1W	1	J4	SURPLUS
405						
406						
407						
408	032UM94B2	CONDENSOR MIC	UM-94B2 9.7X4.5 -36 +/-2dB	1	J6	ACTRONICS
409						
410	071FTECC05123BR	LED DISPLAY	FTEC-C05123BRDSR0013	1	LED1	FUTURE
411						
412	0670055	LED	D 3 mm BI-COLOR RED/GRN L-3WEGW	1	LED501	KINGBRIGHT
413						
414	0270082	DC JACK	DC-480	1	J3	SEE-PLUS
415						
416						KINGBRIGHT
417						
418	0270086	JACK STEREO	ST-2502-5-003 D=2.5MM SMT TYPE	1	J5	BOND TACT
419	< OR >					
420	0270086A	JACK STEREO	SJ-09D-C1-B D=2.5mm SMT TAPE			YAT SHUN
421						
422	0760899	HEADER	6604S-02-T 2 PIN ST. 2.54 PITCH	1	J1	NELTRON
423						
424						
425						
426	0840044605A	SHIELD VCO	0.3MM BRASS	3		MACH. PART
427						
428	0260332	TACT SWITCH	TSC112-164SW	9	K1,K2,K3,K4,K5,K6,K7,K8,K9	MI SUNG
429	< OR >					
430	0260332A	TACT SWITCH	TC-SMD02N			CHUN KAI
431						
432						
433						
434						
435						
436						
437	0640019	COPPER WIRE	D 0.8MM	0.02 M	( ANTENNA )	
438						
439						
440						
441						
442						
443						
444	06100500DH	JUMPER WIRE	UL1571 #28 L=50mm BLK	1	JMP4 (SPEAKER -)	
445						
446	06100503DH	JUMPER WIRE	UL1571 #28 L=50mm ORG	1	JMP5 (SPEAKER +)	
447						
448	06100800AA	JUMPER WIRE	UL1007 #26 L=80mm BLK	1	JMP6 (BATTERY -)	
449						
450	06100802AA	JUMPER WIRE	UL1007 #26 L=80mm RED	1	JMP7 (BATTERY +)	