

Bill Of Materials for TW309V3.sch on Thu May 24 17:16:00 2007

Item	Qty	Reference	Part Name	Manufacturer	Description
1	1	X301	20.95MHz CL=17.5PF		
2	1	FL301	21.4M		
3	2	D5 D303	1SV214		
4	1	Q202	2SA1162,		
5	2	Q307-308	2SC4901		
6	1	Q301	2SK3078A		
95	5	Q302-304 Q306 Q310	2sc4901 2sc4901		
7	1	FD201	450KHz		
8	1	U2	AIC1730, LP2985-3.6V		
9	1	ANT301	ANT		
10	1	U5	AT24C64		
11	1	C282	CAP-5A, 100U		
12	1	C267	CAP-5A, 100UF/6.3V		
13	1	C265	CAP-5A, 220U/6.3V		
14	1	BAT1	CELL, 6V		
15	21	C121 C218 C221 C224 C233 C258 C308-309 C313 C318 C334 C342 C355 C357 C361 C364 C371 C374 C378-380	CMC, 100P		
16	3	C201 C270 C321	CMC, 102P		
17	1	C222	CMC, 103		
18	7	C111 C116 C273 C279 C319 C343 C346	CMC, 103P		
19	33	AC1 C102-103 C105-108 C110 C113 C115 C117 C120 C122 C202 C204-206 C208 C215-216 C220 C269 C272 C278 C281 C285 C289 C310 C314 C333 C340 C345 C372	CMC, 104		
20	11	C101 C109 C203 C225-226 C259 C261 C277 C280 C356 C373	CMC, 105		
21	5	C304-305 C320 C331 C402	CMC, 10P		
22	3	C118-119 C317	CMC, 12P		
23	1	C303	CMC, 15P		
24	3	C301 C338 C344	CMC, 1P		
25	1	C339	CMC, 2.5P		
26	1	C358	CMC,		

			2. 5P=USA/2. 7P=
			UK
27	1	C341	CMC, 220P
28	3	C104	CMC, 222P
		C230-231	
29	1	C370	CMC, 223/X7R
30	3	C211 C223	CMC, 223P
		C254	
31	4	C207 C260	CMC, 224
		C266 C268	
32	2	C332 C377	CMC, 22P
33	1	C306	CMC, 27P
34	1	C383	CMC, 2P
35	4	C217 C219	CMC, 332P
		C257 C362	
36	1	C271	CMC, 333
37	4	C350 C352	CMC, 3P
		C359 C401	
38	4	C232 C354	CMC, 470P
		C365 C388	
39	2	C255-256	CMC, 472P
40	1	C2	CMC, 473P
41	1	C363	CMC, 474/X7R
42	1	C337	CMC, 47P
43	1	C330	CMC, 4P
44	1	C385	CMC, 5P
45	1	C312	CMC, 6. 8P
46	2	C209-210	CMC, 680P
47	2	C375-376	CMC, 68P
48	1	C302	CMC, 6P
49	1	C360	CMC, 8P
50	2	C351 C353	CMC, 9P
51	5	C29 C112	CMC, NU
		C114 C288	
		C307	
52	1	L302	COIL-3T, 2T
53	1	L315	COIL-3T, 3T
54	2	L301 L310	COIL-3T, 5T
55	1	L304	COIL-3T, USA=2T UK=3T
56	1	L309	COIL-4T, 4T
57	1	L305	COIL-4T, 5T
58	3	D101-102	D-1206, 1N4148
		D201	
59	3	D301-302	D3. 5MM, KDS114
		D306	
60	1	U301	DBL5018, TB31202
61	4	Q101-104	DTA143ZE, ???
62	1	S301	F465A, HDF465A
63	1	U201	KA3361D
64	1	D304	KDS114, KDS114
65	1	K24	KEY-5-5, #SYMBOL
66	1	K22	KEY-5-5, *CPAS
67	1	K23	KEY-5-5, OSPACE
68	1	K12	KEY-5-5, 1ABC
69	1	K13	KEY-5-5, 2DEF
70	1	K15	KEY-5-5, 3GHI
71	1	K16	KEY-5-5, 4JKL
72	1	K17	KEY-5-5, 5MNO
73	1	K18	KEY-5-5, 6PQRS
74	1	K19	KEY-5-5, 7TUV
75	1	K20	KEY-5-5, 8WXYZ
76	1	K21	KEY-5-5, 9SYMBOL
77	1	K1	KEY-5-5, CANCEL
78	1	K8	KEY-5-5, DOWN
79	1	K7	KEY-5-5, ID
80	1	K4	KEY-5-5, LEFT
81	1	K5	KEY-5-5, OK
82	1	K3	KEY-5-5, POWER
83	1	K6	KEY-5-5, RIGHT
84	1	K9	KEY-5-5, TALK
85	1	K2	KEY-5-5, UP

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86	2	L306 L308	L, 12nH			
87	2	L311-312	L, 15nH			
88	1	L303	L, 2. 2UH			
89	1	L313	L, 2. 2uH			
90	1	L314	L, 22nH			
91	1	LCD101	LCD1A			
92	1	LED101	LED			
93	2	U202-203	LM358	MOTOROLA	DUAL DIFFERENTIAL INPUT OPERATIONAL AMPLIFIER	
94	1	MIC2	MIC, CMT-64			
96	3	R111 R288 R316	R, 0			
97	1	R336	R, OR			
98	1	R258	R, 1. 2K			
99	2	R323 R341	R, 1. 5K			
100	1	R259	R, 1. 8K			
101	7	R107 R117 R201-202 R268 R329 R337	R, 10			
102	6	R105-106 R118 R219 R273 R339	R, 100K			
103	1	R318	R, 102P			
104	16	R113 R116 R211-212 R218 R223 R226 R236 R238-239 R243-244 R254-255 R283 R328	R, 10K			
105	1	R340	R, 120K			
106	2	R322 R316A	R, 150R			
107	1	R302	R, 15K			
108	1	R261	R, 18K			
109	6	R115 R209 R301 R315 R320 RT1	R, 1K			
110	3	R207 R224 R235	R, 1M			
111	6	R1 R108-109 R252 R326 R380	R, 2. 2K			
112	2	R308 R402	R, 2. 7K			
113	2	R205 R332	R, 220K			
114	1	R333	R, 27K			
115	3	R210 R229 R317	R, 3. 3K			
116	1	R203	R, 3. 9K			
117	1	R303	R, 30K			
118	1	R342	R, 330K			
119	2	R227 R280	R, 33K			
120	1	R321	R, 3K			
121	11	R110 R114 R206 R213 R256 R309 R325 R327 R330-331 R401	R, 4. 7K			
122	3	R250-251 R307	R, 4. 7R			
123	1	AR1	R, 4. 7k			
124	2	R312-313	R, 47			
125	3	R208 R314 R381	R, 470K			
126	11	R104 R216 R221 R233-234 R241-242 R253 R257 R281 R324	R, 47K			

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127	3	R101-103	R, 560K	
128	1	R217	R, 680K	
129	3	R204 R220 R310	R, 68K	
130	2	R225 R260	R, 8. 2K	
131	2	R240 R282	R, 820K	
132	2	R228 R245	R, 82K	
133	1	R338	R, NC	
134	3	R112 R237 R311	R, NU	
135	1	R222	R, USA=1. 5K UK=1K	
136	3	RV201 VR2 VR201	RV601	
137	1	U1	SH57P95	
138	1	U3	SL386	
139	1	SPK201	SPEAKER, 4R/1W	
140	1	SW101	SW-ROCKER-DPDT -V	NKK M2T22TXW41-DA
141	1	TP103	TP, GND	DPDT ROCKER SWITCH, VERTICAL PCB MOUNT
142	1	TP301	TP, RF	
143	3	TP7 TP101 TP201	TP, SCK	
144	1	TP102	TP, SDA	
145	1	TP105	TP, USA\UK	
146	1	TP304	TP, VCO	
147	1	TP1	TP, VDD	
148	1	TP104	TP, VPP	
149	1	U102	USA	
150	5	Q9 Q105 Q201 Q203 Q309	UMT3904, umt3904	
151	1	X101	XTAL1, 32. 768KHz	
152	1	IF201	XTAL1, 450KHz	
153	1	TC301	ZR01A, 6P	