

HH Transmitter ATW-T220 AUDIO BLOCK

	BLOCK	Reference NO.	Parts Name
1	AUDIO	R1	Chip Resistor 1005 2.0K Ω
2	AUDIO	R4	Chip Resistor 1005 10K Ω
3	AUDIO	R5	Chip Resistor 1005 2.7K Ω
4	AUDIO	R10	Chip Resistor 1005 56K Ω
5	AUDIO	R11	Chip Resistor 1005 100K Ω
6	AUDIO	R12	Chip Resistor 1005 82K Ω
7	AUDIO	R13	Chip Resistor 1005 1.0K Ω
8	AUDIO	R14	Chip Resistor 1005 33K Ω
9	AUDIO	R15	Chip Resistor 1005 10K Ω
10	AUDIO	R16	Chip Resistor 1005 15K Ω
11	AUDIO	R17	Chip Resistor 1005 30K Ω
12	AUDIO	R18	Chip Resistor 1005 33K Ω
13	AUDIO	R19	Chip Resistor 1005 3.9K Ω
14	AUDIO	R20	Chip Resistor 1005 3.9K Ω
15	AUDIO	R21	Chip Resistor 1005 10K Ω
16	AUDIO	R22	Chip Resistor 1005 10K Ω
17	AUDIO	R23	Chip Resistor 1005 200 Ω
18	AUDIO	R24	Chip Resistor 1608 10M Ω
19	AUDIO	R25	Chip Resistor 1005 220K Ω
20	AUDIO	R26	Chip Resistor 1005 470K Ω
21	AUDIO	R27	Chip Resistor 1005 1M Ω
22	AUDIO	R28	Chip Resistor 1005 1M Ω
23	AUDIO	R29	Chip Resistor 1005 10K Ω
24	AUDIO	R30	Chip Resistor 1005 1.5K Ω
25	AUDIO	R31	Chip Resistor 1005 100K Ω
26	AUDIO	R32	Chip Resistor 1005 100K Ω
27	AUDIO	R33	Chip Resistor 1005 10K Ω
28	AUDIO	R34	Chip Resistor 1005 10K Ω
29	AUDIO	R35	Chip Resistor 1005 2.2M Ω
30	AUDIO	R005	Chip Resistor 1005 47K Ω
31	AUDIO	R007	Chip Resistor 1005 10K Ω
32	AUDIO	R019	Chip Resistor 1005 1.0K Ω
33	AUDIO	C1	Tantalum Capacitor 2.2 μ F/20V 3216
34	AUDIO	C2	Tantalum Capacitor 3216 10 μ F/16V
35	AUDIO	C4	Tantalum Capacitor 2.2 μ F/20V 3216
36	AUDIO	C5	Chip Capacitor 1005 B680pF
37	AUDIO	C8	Chip Capacitor 1005 B1000pF

38	AUDIO	C9	Chip Capacitor 1005 B330pF
39	AUDIO	C10	Chip Capacitor 1005 CH100pF
40	AUDIO	C11	Chip Capacitor 1608 B 0.1 μ F
41	AUDIO	C12	Tantalum Capacitor 3216 10 μ F/16V
42	AUDIO	C14	Tantalum Capacitor 2.2 μ F/20V 3216
43	AUDIO	C15	Tantalum Capacitor 3216 1 μ F/25V
44	AUDIO	C16	Tantalum Capacitor 2.2 μ F/20V 3216
45	AUDIO	C17	Tantalum Capacitor 2.2 μ F/20V 3216
46	AUDIO	C18	Tantalum Capacitor 2.2 μ F/20V 3216
47	AUDIO	C19	Tantalum Capacitor 3216 1 μ F/25V
48	AUDIO	C20	Chip Film Capacitor 2012 0.01 μ F
49	AUDIO	C21	Chip Capacitor 1005 CH33pF
50	AUDIO	C22	Tantalum Capacitor 2.2 μ F/20V 3216
51	AUDIO	C23	Chip Film Capacitor 2012 0.01 μ F
52	AUDIO	C24	Tantalum Capacitor 4.7 μ F/16V 3216
53	AUDIO	C25	Tantalum Capacitor 3216 10 μ F/16V
54	AUDIO	C26	Chip Capacitor 1005 B 0.01 μ F
55	AUDIO	C27	Chip Capacitor 1005 B220pF
56	AUDIO	C28	Tantalum Capacitor 2.2 μ F/20V 3216
57	AUDIO	C29	Chip Film Capacitor 2012 0.01 μ F
58	AUDIO	C30	Tantalum Capacitor 2.2 μ F/20V 3216
59	AUDIO	C31	Tantalum Capacitor 2.2 μ F/20V 3216
60	AUDIO	C32	Tantalum Capacitor 2.2 μ F/20V 3216
61	AUDIO	C33	Chip Capacitor 1005 B470pF
62	AUDIO	C34	Chip Capacitor 1005 CH27pF
63	AUDIO	C35	Chip Capacitor 1005 CH27pF
64	AUDIO	C36	Chip Capacitor 1005 B 0.01 μ F
65	AUDIO	C37	Chip Capacitor 1005 B 0.01 μ F
66	AUDIO	C38	Chip Capacitor 1608 B 0.1 μ F
67	AUDIO	C39	Chip Capacitor 1005 B 0.01 μ F
68	AUDIO	C40	Tantalum Capacitor 3216 10 μ F/10V
69	AUDIO	C41	Chip Capacitor 1608 B 1000pF
70	AUDIO	C42	Chip Capacitor 1005 B 0.01 μ F
71	AUDIO	C004	Tantalum Capacitor 3216 10 μ F/16V
72	AUDIO	C005	Tantalum Capacitor 3216 10 μ F/16V
73	AUDIO	L1	CHIP Inductor 1608 1 μ H LK1608 1R0M
74	AUDIO	L3	CHIP Inductor 1608 1 μ H LK1608 1R0M
75	AUDIO	L4	CHIP Inductor 1608 1 μ H LK1608 1R0M
76	AUDIO	VR1	Volume 10K Ω ST-4EC

77	AUDIO	VR3	Volume 10K Ω RH03ADC14X
78	AUDIO	VR4	Volume 4.7K Ω RH03ADCS3X
79	AUDIO	D1	Diode DCJ010
80	AUDIO	D2	Diode DCJ010
81	AUDIO	D105	Diode RD13UM
82	AUDIO	D106	Diode RD13UM
83	AUDIO	Q2	Transistor 2SC4738
84	AUDIO	IC1	IC NJM2068MD
85	AUDIO	IC2	IC SA571D
86	AUDIO	IC3	IC TC4SU69F
87	AUDIO	IC4	IC TC75S51FU
88	AUDIO	IC5	IC TC7S66FU
89	AUDIO	CN1	Connector SM03B
90	AUDIO	X1	Crystal Unit 32.768KHz
91	FM MOD	R116	Chip Resistor 1005 10 Ω
92	FM MOD	R117	Chip Resistor 1005 10K Ω
93	FM MOD	R118	Chip Resistor 1005 5.6K Ω
94	FM MOD	R119	Chip Resistor 1005 1.0K Ω
95	FM MOD	R120	Chip Resistor 1005 1.0K Ω
96	FM MOD	R121	Chip Resistor 1608 22 Ω
97	FM MOD	R122	Chip Resistor 1005 100 Ω
98	FM MOD	R123	Chip Resistor 1005 56K Ω
99	FM MOD	R124	Chip Resistor 1005 22K Ω
100	FM MOD	R125	Chip Resistor 1005 33K Ω
101	FM MOD	R126	Chip Resistor 1005 330K Ω
102	FM MOD	R127	Chip Resistor 1005 10K Ω
103	FM MOD	C107	Chip Capacitor 1608 B 0.1 μ F
104	FM MOD	C108	Tantalum Capacitor 3216 10 μ F/10V
105	FM MOD	C109	Chip Capacitor 1005 CH33pF
106	FM MOD	C110	Chip Capacitor 1005 CH10pF
107	FM MOD	C111	Tantalum Capacitor 3216 10 μ F/10V
108	FM MOD	C112	Chip Capacitor 1005 B 0.01 μ F
109	FM MOD	C113	Chip Capacitor 1005 B 0.01 μ F
110	FM MOD	C115	Chip Capacitor 1005 B22000pF
111	FM MOD	C116	Tantalum Capacitor 3216 10 μ F/10V
112	FM MOD	C117	Chip Capacitor 1005 B22000pF
113	FM MOD	C118	Chip Capacitor 1005 CH100pF
114	FM MOD	C119	Chip Capacitor 1005 B1000pF
115	FM MOD	C120	Chip Capacitor 1005 B 0.01 μ F

116	FM	MOD	C121	Tantalum Capacitor 3528 100 μ F/6.3V
117	FM	MOD	C122	Tantalum Capacitor 3528 100 μ F/6.3V
118	FM	MOD	C123	Chip Capacitor 1608 B 0.1 μ F
119	FM	MOD	C124	Tantalum Capacitor 3216 10 μ F/10V
120	FM	MOD	C148	Chip Capacitor 1608 B 0.1 μ F
121	FM	MOD	C149	Tantalum Capacitor 3528 100 μ F/6.3V
122	FM	MOD	L101	CHIP Inductor 2012 1 μ H LB2012T101M
123	FM	MOD	L102	CHIP Inductor 2012 100 μ H LB2012T101M
124	FM	MOD	VC1	Trimmer Capacitor 20pF TC03C200A
125	FM	MOD	IC103	IC MB1511FPV
126	FM	MOD	IC104	IC TA75S393F
127	FM	MOD	X102	Crystal Unit 12.8MHz AT-41CD2
128	FM	MOD	VCO101	VCO T668-T
129	RF	AMP	R002	Chip Resistor 1005 100K Ω
130	RF	AMP	R003	Chip Resistor 1005 4.7K Ω
131	RF	AMP	R004	Chip Resistor 1005 10K Ω
132	RF	AMP	R006	Chip Resistor 1005 47K Ω
133	RF	AMP	R128	Chip Resistor 1005 68 Ω
134	RF	AMP	R129	Chip Resistor 1005 120 Ω
135	RF	AMP	R130	Chip Resistor 1005 68 Ω
136	RF	AMP	R131	Chip Resistor 1005 27K Ω
137	RF	AMP	R132	Chip Resistor 1005 100K Ω
138	RF	AMP	R133	Chip Resistor 1005 120 Ω
139	RF	AMP	R134	Chip Resistor 1608 560 Ω
140	RF	AMP	R135	Chip Resistor 1005 18K Ω
141	RF	AMP	R136	Chip Resistor 1005 47K Ω
142	RF	AMP	R137	Chip Resistor 2012 330 Ω
143	RF	AMP	R138	Chip Resistor 1005 10K Ω
144	RF	AMP	R139	Chip Resistor 1005 10K Ω
145	RF	AMP	R140	Chip Resistor 1005 22K Ω
146	RF	AMP	R141	Chip Resistor 2012 10 Ω
147	RF	AMP	R144	Chip Resistor 1005 47K Ω
148	RF	AMP	R145	Chip Resistor 1005 47K Ω
149	RF	AMP	R146	Chip Resistor 1005 4.7K Ω
150	RF	AMP	R147	Chip Resistor 1005 100K Ω
151	RF	AMP	C003	Tantalum Capacitor 3528 47 μ F/10V
152	RF	AMP	C125	Chip Capacitor 1005 B1000pF
153	RF	AMP	C126	Chip Capacitor 1005 CH5pF
154	RF	AMP	C127	Chip Capacitor 1005 B1000pF

155	RF AMP	C128	Chip Capacitor 1005 B1000pF
156	RF AMP	C129	Chip Capacitor 1005 CH4pF
157	RF AMP	C130	Chip Capacitor 1005 B1000pF
158	RF AMP	C131	Chip Capacitor 1005 CH5pF
159	RF AMP	C132	Chip Capacitor 1005 B1000pF
160	RF AMP	C133	Chip Capacitor 1005 CK1 p F
161	RF AMP	C134	Chip Capacitor 1005 B1000pF
162	RF AMP	C135	Chip Capacitor 1005 CH5pF
163	RF AMP	C136	Chip Capacitor 1005 B1000pF
164	RF AMP	C137	Chip Capacitor 1005 B1000pF
165	RF AMP	C138	Chip Capacitor 1005 B1000pF
166	RF AMP	C151	Chip Capacitor 1005 B 0.1 μ F
167	RF AMP	L103	CHIP Inductor 1608 15nH LBH1608T15NJ
168	RF AMP	L104	CHIP Inductor 1608 12nH LBH1608T12NJ
169	RF AMP	L105	CHIP Inductor 1608 6.8nH LBH1608T6R8NJ
170	RF AMP	VR101	Volume 100K Ω RH03ADC15X
171	RF AMP	Q001	Transistor XP04601
172	RF AMP	Q002	Transistor DTC144EE
173	RF AMP	Q101	Transistor 2SC4226 R25
174	RF AMP	Q102	Transistor 2SC4226 R25
175	RF AMP	Q103	Transistor 2SC4226 R25
176	RF AMP	Q104	Transistor XP04601
177	FILTER	R001	Chip Resistor 1005 1.0K Ω
178	FILTER	R142	Chip Resistor 1608 0 Ω
179	FILTER	C001	Chip Capacitor 1005 B1000pF
180	FILTER	C002	Chip Capacitor 1005 B1000pF
181	FILTER	C139	Chip Capacitor 1005 CK1pF
182	FILTER	C140	Chip Capacitor 1005 CH5pF
183	FILTER	C141	Chip Capacitor 1005 CH4pF
184	FILTER	C142	Chip Capacitor 1005 CH4pF
185	FILTER	C143	Chip Capacitor 1005 CH4pF
186	FILTER	C144	Chip Capacitor 1005 CH4pF
187	FILTER	C145	Chip Capacitor 1005 CH4pF
188	FILTER	L106	CHIP Inductor 1608 15nH LBH1608T15NJ
189	FILTER	L107	CHIP Inductor 1608 22nH LBH1608T22NJ
190	FILTER	L108	CHIP Inductor 1608 22nH LBH1608T22NJ
191	FILTER	L109	CHIP Inductor 1608 22nH LBH1608T22NJ
192	FILTER	L110	CHIP Inductor 1608 15nH LBH1608T15NJ
193	FILTER	L111	CHIP Inductor 1608 68nH

194	FILTER	D001	Diode 1 SV271
195	FILTER	CN001	NONE
196	FILTER	CN002	IC MM7329-2700B
197	CONTOROR	R62	Chip Resistor 1005 10K Ω
198	CONTOROR	R64	Chip Resistor 1005 100K Ω
199	CONTOROR	R008	Chip Resistor 1005 1.0K Ω
200	CONTOROR	R009	Chip Resistor 1005 1.0K Ω
201	CONTOROR	R010	Chip Resistor 1005 1.0K Ω
202	CONTOROR	R011	Chip Resistor 1005 1.0K Ω
203	CONTOROR	R012	Chip Resistor 1005 1.0K Ω
204	CONTOROR	R013	Chip Resistor 1005 1.0K Ω
205	CONTOROR	R014	Chip Resistor 1005 1.0K Ω
206	CONTOROR	R015	Chip Resistor 1005 1.0K Ω
207	CONTOROR	R016	Chip Resistor 1005 1.0K Ω
208	CONTOROR	R017	Chip Resistor 1005 1.0K Ω
209	CONTOROR	R018	Chip Resistor 1005 1.0K Ω
210	CONTOROR	R101	Chip Resistor 1005 10K Ω
211	CONTOROR	R102	NONE
212	CONTOROR	R103	Chip Resistor 1005 47K Ω
213	CONTOROR	R104	Chip Resistor 1005 10K Ω
214	CONTOROR	R106	Chip Resistor 1005 47K Ω
215	CONTOROR	R107	Chip Resistor 1005 15K Ω
216	CONTOROR	R108	Chip Resistor 1005 10K Ω
217	CONTOROR	R109	Chip Resistor 1005 10K Ω
218	CONTOROR	R110	Chip Resistor 1005 15K Ω
219	CONTOROR	R112	Chip Resistor 1005 0 Ω
220	CONTOROR	R148	Chip Resistor 1005 10K Ω
221	CONTOROR	R149	Chip Resistor 1005 10K Ω
222	CONTOROR	R150	Chip Resistor 1005 10K Ω
223	CONTOROR	R151	Chip Resistor 1005 10K Ω
224	CONTOROC	C101	Chip Capacitor 1005 B 0.01 μ F
225	CONTOROC	C104	Chip Capacitor 1005 B 0.01 μ F
226	CONTOROC	C105	Chip Capacitor 1005 B 0.01 μ F
227	CONTOROC	C106	Chip Capacitor 1005 CH100pF
228	CONTOROD	D101	Diode RD5.6UM
229	CONTOROD	D102	Diode RD5.6UM
230	CONTOROD	D103	Diode RD5.6UM
231	CONTOROD	D104	Diode RD5.6UM
232	CONTOROD	IC101	IC μ PD78F9456-8EU

233	CONTOROC	IC102	IC S-80839CNNB
234	CONTOROC	IC105	IC BR93L46RFVM
235	CONTOROC	CN2	Connector BM06B
236	CONTOROS	S101	Rotary SW S-7010TA
237	CONTOROX	X101	Ceramic Resonator CSTCR
238	POWER	R51	Chip Resistor 1005 100K Ω
239	POWER	R52	Chip Resistor 1005 15K Ω
240	POWER	R53	Chip Resistor 1005 68K Ω
241	POWER	R54	Chip Resistor 1005 22K Ω
242	POWER	R55	Chip Resistor 1005 220 Ω
243	POWER	R56	Chip Resistor 1005 6.8K Ω
244	POWER	R57	Chip Resistor 1005 100K Ω
245	POWER	R58	Chip Resistor 1005 10K Ω
246	POWER	R60	Chip Resistor 1005 4.7K Ω
247	POWER	R61	Chip Resistor 1005 4.7K Ω
248	POWER	C53	Tantalum Capacitor 3216 1 μ F/25V
249	POWER	C54	Chip Capacitor 1005 B 0.01 μ F
250	POWER	C55	Tantalum Capacitor 3528 47 μ F/10V
251	POWER	C56	Tantalum Capacitor 3528 47 μ F/10V
252	POWER	C57	Tantalum Capacitor 3528 47 μ F/10V
253	POWER	C58	Tantalum Capacitor 3528 47 μ F/10V
254	POWER	C60	Chip Capacitor B2.2 μ /16V 3216
255	POWER	C61	Tantalum Capacitor 3528 15 μ F/16V
256	POWER	C62	Tantalum Capacitor 3528 15 μ F/16V
257	POWER	C63	Tantalum Capacitor 3528 15 μ F/16V
258	POWER	C65	Chip Capacitor 1005 B 0.01 μ F
259	POWER	C66	Chip Capacitor 1005 B 0.01 μ F
260	POWER	C152	Chip Capacitor 1005 B 0.01 μ F
261	POWER	L51	CHIP Inductor 22 μ H CDRH5D28
262	POWER	L52	CHIP Inductor 2518 22 μ H LB2518220M
263	POWER	L54	CHIP Inductor 2518 22 μ H LB2518220M
264	POWER	D51	Diode SB07-03C
265	POWER	D52	Diode 1 SS383
266	POWER	D53	Led Lamp SML-A12UT 1608
267	POWER	Q51	Transistor 2SB1120
268	POWER	Q52	Transistor 2SC4617
269	POWER	Q53	Transistor XP161A1265
270	POWER	Q54	Transistor 2SC4617
271	POWER	Q003	Transistor DTC144EE

272	POWER	IC51	Transistor XC6367A503MR
273	POWER	S51	SW ESD175206