



Exhibit 13: Parts List

**External Radio Frequency
Power Amplifier ACOM 2100**

Model 2100

ACOM 2100 PARTS LIST

Nr	Description	Qty
1	Capacitor aluminium electrolytic SNAP-IN 100uF 300V 10mm (max 25x31.5mm)	2
2	Capacitor aluminium electrolytic SNAP-IN 220uF 450V 10mm (D30mm x 43mm max)	10
3	Capacitor aluminium electrolytic 22uF 20% 250V 5mm (max D12.5x20.5mm)	1
4	Capacitor aluminium electrolytic 4.7uF 400V 5mm (max D10x16.5mm)	1
5	Capacitor aluminium electrolytic 1uF 20% 10V 2mm (max D5x12mm)	3
6	Capacitor aluminium electrolytic 10uF 20% 10V 2mm (max D5x12mm)	2
7	Capacitor aluminium electrolytic 10uF 20% 35V 2mm (max D5x12mm)	2
8	Capacitor aluminium electrolytic 100uF 20% 10V 2mm (max D5.5x12mm)	3
9	Capacitor aluminium electrolytic 100uF 20% 35V 3.5mm (max D9mm)	2
10	Capacitor aluminium electrolytic 1000uF 20% 35V 5mm (max D12.5x32mm)	1
11	Capacitor aluminium electrolytic 22uF 20% 10V 2mm (max D5mm)	1
12	Capacitor aluminium electrolytic 2200uF 20% 35V 7.62mm (max D16x31.5mm)	1
13	Capacitor aluminium electrolytic 3300uF 20% 25V 7.62mm (max D16x32mm)	1
14	Capacitor aluminium electrolytic 470uF 20% 35V 5mm (max D10x32mm)	1
15	Capacitor ceramic K15U-1a 100pF±10% 6kV M1500 7kVA	1
16	Capacitor ceramic 1500pF±20% 5kV	1
17	Capacitor ceramic 47pF 10% NP0 3.5kV	1
18	Capacitor ceramic 47pF±10% 6kV M1500 7kVA	1
19	Capacitor ceramic 10pF ±5% NPO 500VDC;	4
20	Capacitor ceramic NP0 100pF ±5% 500V	1
21	Capacitor ceramic SMD 0805 10nF 10% X7R 200V	4
22	Capacitor ceramic SMD 1206 10nF ±10% 500V X7R	2
23	Capacitor ceramic 10nF ±10% 5mm 1kVDC (Y5U) 13mm;	19
24	Capacitor ceramic Y2/X1 10nF 250V AC;	1
25	Capacitor ceramic NP0 130pF±5% 8kV/4kVA (D26mm)	5
26	Capacitor ceramic 1.5nF ±10% 500V 5mm	1
27	Capacitor ceramic 1pF NPO 500VDC; 5mm	1
28	Capacitor ceramic NP0 22pF ±5% 500V 5mm	2
29	Capacitor ceramic 2.2nF ±20% 3kVDC D22mm 10mm	1
30	Capacitor ceramic SMD 1206 2.2nF 10% X7R 1000V	2
31	Capacitor ceramic 2.2nF ±20% 10mm	2
32	Capacitor ceramic 22nF ±20% 1kV 5mm	2
33	Capacitor ceramic NP0 27pF ±5% 500V 5mm	2
34	Capacitor ceramic 2.7pF ±0.5pF NP0 5kVDC 5mm	4
35	Capacitor ceramic NP0 39pF ±5% 500V 5mm	3
36	Capacitor ceramic 4.7pF ±5% NPO 500VDC; 5mm	2
37	Capacitor ceramic 47nF ±10% X7R 250(500)VDC 5mm	7

38	Capacitor ceramic NP0 47pF ±5% 500V 5mm	1
39	Capacitor ceramic multilayer 1nF ±10% 50V 5mm	1
40	Capacitor ceramic multilayer 10nF ±10% 50V 5mm	14
41	Capacitor ceramic multilayer 100nF ±20% 50V 5mm	9
42	Capacitor ceramic multilayer 1.8nF 630V NP0 5mm	1
43	Capacitor ceramic multilayer 220nF ±20% 50V 5mm	2
44	Capacitor ceramic multilayer 2.7nF 630V NP0 5mm	1
45	Capacitor ceramic multilayer 47nF ±20% 100V 5mm	10
46	Capacitor ceramic SMD 0603 1nF ±10% 50V X7R	8
47	Capacitor ceramic SMD 0805 1nF ±10% 100V	4
48	Capacitor ceramic SMD 0603 10nF ±10% 50V X7R	12
49	Capacitor ceramic multilayer 0.1uF 10% 50V X7R 0603	14
50	Capacitor ceramic SMD 1206 150pF 10% 2kV X7R	0
51	Capacitor ceramic SMD 1206 220pF 10% 2kV X7R	36
52	Capacitor ceramic SMD 0603 27pF ±5% 50V NPO	2
53	Capacitor ceramic SMD 0603 47nF ±10% 50V X7R	31
54	Capacitor ceramic SMD 0805 47nF ±10% 100V X7R	2
55	Capacitor ceramic SMD 0805 68pF ±5% 200V NP0	1
56	Capacitor 100nF ±20% 630VDC 16.5mm	2
57	LED 3mm green TLHG4400	1
58	LED 3mm orange TLHO4400	1
59	LED 3mm red TLHR4400	1
60	LED 3mm yellow TLHY4400	3
61	Diode 1N4148 6.35mm	2
62	Diode 1N4448W (BAS16W, BAS16H) SOD-123;	6
63	Diode SMD SOT-23 BAS16	4
64	Diode pair SMD SOT-23 BAV70	1
65	Diode pair series SMD SOT-23 BAV99	2
66	Diode Schottky 1N5711	3
67	Diode Schottky pair series SMD SOT23 BAS70-04	2
68	Diode Schottky 30V 200mA BAR43S SOT-23	1
69	Diode transil TVS SMAJ36CA 42Vdc@1mA SMA (DO-214AC)	6
70	Diode 1N4002	10
71	Diode 1N4004	4
72	Diode 1N4007	5
73	Diode SMD DO214AC (DO214BA, DO214AA)	2
74	Diode SMD S3M, DO214AB (SMC)	1
75	Diode Zener 10V/1,3W BZV85C10 9mm (1W 1N4740A)	1
76	Diode Zener 100V SMD SOD106A BZG 03C100	1
77	Diode Zener 130V/3W BZT03C130 9mm	1
78	Diode Zener 3.9V SMD SOT-23 BZX84C3V9	1
79	Diode Zener 4.7V 5% 350mW BZX84C4V7 SOT-23	11
80	Diode Zener 7.5V/0.4W BZX79C7V5 6.35mm	2

81	Fuse holder PANEL MOUNT 3AG 20A/250V 1/4" QC 342-828A	2
82	Fuse holder 20mm type ZH1	3
83	Fuse 15A (16A) 250V 6.3x32mm Quick Blow, 1-1/4 inch Cartridge Fuse, Size "0";	2
84	Fuse 20A 250V 6.3x32mm Quick Blow, 1-1/4 inch Cartridge Fuse, Size "0";	2
85	Fuse 0.2A 250V SLOW BLOW D5x20mm 218.200	1
86	Fuse 2A 250V SLOW BLOW D5x20mm 218002	2
87	Double aperture ferrite core (Doppellochkerne); u=125; 20x22x10mm	2
88	Ferrite toroid u=50 K25x15x10mm	1
89	Ferrite toroid u=800...2200 K7x4x4	3
90	Ferrite core STF4.4x1.6x10mm u=2000	1
91	RCA Phono Jack PC Snap-Fit 90 Deg	2
92	UHF Coaxial Connectors Panel Mount SO239	1
93	UHF Coaxial Connectors Panel Mount (TFE Insul.) SO239/A	3
94	Coaxial connector BNC (UG-1094/U)	1
95	PCB Terminal Block LP5.08/2/135	6
96	MATE-N-LOK UL94-V2 Cap 2 pos. in-line	2
96a	MATE-N-LOK UL94-V2 Cap 9 pos. 3x3	1
97	Shorting Jumpers (Shunts)	3
98	CONNECTOR SL-156 Housings White 3 Circuits AMP p/n 640250-3	1
99	Connector cable 3 receptacles MTA100 3 IDC Contacts White (AWG24) 3-643814-3	3
100	Connector cable 5 receptacles MTA100 5 IDC Receptacle white (AWG24) 3-643814-5	3
101	Connector cable 6 receptacles MTA100 6 IDC Receptacle white (AWG24) 3-643814-6	1
102	Connector Housing cable 8 receptacles . CONNECTOR CST-100 Crimp housings	1
103	Connector cable 10 pos. white MTA100 10 IDC Receptacle white (AWG24)	4
104a	MATE-N-LOK UL94-V2 Plug 2 pos. in-line	1
104	MATE-N-LOK UL94-V2 Plug 9 pos. 3x3	1
105	PIN HEADER MTA156 3 STRAIGHT POST FRICTION LOCK	1
106	PIN HEADER MTA100 3 STRAIGHT POST FRICTION LOCK	3
107	PIN HEADER MTA100 5 STRAIGHT POST FRICTION LOCK	1
108	PIN HEADER MTA100 5 STRAIGHT POST FRICTION LOCK	3
109	PIN HEADER MTA100 6 STRAIGHT POST FRICTION LOCK	2
110	PIN HEADER MTA100 8 STRAIGHT POSTS FRICTION LOCK	6
111	PIN HEADER MTA100 10 STRAIGHT POST FRICTION LOCK	4
112	Strain Relief Straps CWN-SR-14	1
113	Flat Cable DIP14 Connector CWR-130-14-0000	1
114	Connector Straight Dual Row Male	1
115	Flat cable connector 2x7x2.54mm	1
116	Socket IC DIL 14	1
117	Socket IC DIL 28	1
117a	Button Keyboard	4
117b	Button On/Off	1
118	Connector housing FASTON 6.35x0.8mm, 22-18AWG red	6
119	Connector housing FASTON 6.35mm 22-18AWG red	2

120	Connector pin CST-100 Crimp Contacts 22-26AWG	4
121	Connector pin MATE-N-LOK 20-14AWG	10
122	Connector housing TV18-10BL	9
123	Connector housing 6.35mm/1.5-2.5 sq.mm	1
124	Connector pin MATE-N-LOK 20-14AWG AMP p/n 350547-1	10
125	Connector (AMP FASTON TAB 6.3mmx0.8mm)	2
126	Relay 29x12.7x15.7mm 2x8A	2
127	Relay AZ733-2A-24DE	2
128	Relay A-12WK (TQ2E-12V)	3
129	Choke 10uH	3
130	Choke 2.2uH 1A	2
131	Choke 22uH	6
132	Choke SMD 1210 10uH 10% (20%) 900mA 0.2 Ohm	1
133	Choke SMD 1210 10uH	16
134	Choke SMD 1210 2.2uH	1
135	Fan Auxilary Optional 24VDC 92x92mm	1*
136	Core SU114a	2
137	Cable tie 98x2.5mm	37
138	Cable tags 0, 1, ..., 8	9
139	Display green acrylic filter	0
140	Resistor 10 Ohm $\pm 5\%$ 0.25W	1
141	Resistor 1kOhm $\pm 5\%$ 0.25W	6
142	Resistor 100kOhm $\pm 5\%$ 0.25W	2
143	Resistor 7.5kOhm 1% 0.25W	1
144	Resistor 120kOhm $\pm 5\%$ 0.25W	1
145	Resistor 1.5kOhm $\pm 5\%$ 0.25W	1
146	Resistor 15kOhm $\pm 5\%$ 0.25W	3
147	Resistor 2.2kOhm $\pm 5\%$ 0.25W	8
148	Resistor 22kOhm $\pm 5\%$ 0.25W	1
148a	Resistor 1kOhm 1% 0.25W	1
149	Resistor 2.2 Ohm $\pm 5\%$ 0.25W	2
150	Resistor 33kOhm $\pm 5\%$ 0.25W	1
151	Resistor 330kOhm $\pm 5\%$ 0.25W	2
152	Resistor 470 Ohm $\pm 5\%$ 0.25W	4
153	Resistor 4.7kOhm $\pm 5\%$ 0.25W	6
154	Resistor 47kOhm $\pm 5\%$ 0.25W	1
155	Resistor 6.2kOhm $\pm 5\%$ 0.25W	3
156	Resistor 68kOhm $\pm 5\%$ 0.25W	2
157	Resistor 680kOhm $\pm 5\%$ 0.25W	1
158	Resistor 115kOhm $\pm 1\%$ 0.25W	1
159	Resistor 10kOhm $\pm 1\%$ 0.25W	1
160	Resistor 100kOhm $\pm 1\%$ 0.25W	2
161	Resistor 200kOhm $\pm 1\%$ 0.25W	1

162	Resistor 40.2Ohm $\pm 1\%$ 0.25W	4
163	Resistor 49.9kOhm $\pm 1\%$ 0.25W	1
164	Resistor 61.9kOhm (62kOhm) 1% (5%) 0.25W	1
165	Resistor 68.1 Ohm $\pm 1\%$ 0.25W	2
166	Resistor 82.5kOhm $\pm 1\%$ 0.25W	1
167	Resistor 100 Ohm $\pm 5\%$ 0.5W	1
168	Resistor 2.7kOhm $\pm 5\%$ 0.5W	1
169	Resistor 27kOhm $\pm 5\%$ 0.5W	1
170	Resistor 100 Ohm $\pm 5\%$ 1W	2
171	Resistor 1MOhm $\pm 5\%$ 2W	5
172	Resistor 180 Ohm $\pm 5\%$ 0.5W	4
173	Resistor 10kOhm $\pm 5\%$ 2W	1
174	Resistor 100kOhm $\pm 5\%$ 2W	2
175	Resistor 160 Ohm $\pm 5\%$ 2W 20mm	2
176	Resistor 2.2kOhm $\pm 5\%$ 2W	1
177	Resistor 47 Ohm $\pm 5\%$ 2W 20mm	3
178	Resistor 4.7kOhm $\pm 5\%$ 2W	1
179	Resistor 68kOhm $\pm 5\%$ 2W	1
180	Resistor 150kOhm $\pm 5\%$ 3W	8
181	Resistor 220 Ohm $\pm 5\%$ 3W	2
182	Resistor 330 Ohm $\pm 5\%$ 3W 25mm	1
182a	Resistor HV 1 MOhm $\pm 10\%$ 1W	1
183	Resistor HV 3 MOhm $\pm 10\%$ 5W	1
184	Resistor 10 Ohm $\pm 10\%$ 2W;	3
185	Resistor 2.2 Ohm $\pm 10\%$ 1W	3
186	Resistor 10 Ohm $\pm 10\%$ 10W	2
187	Resistor 30 Ohm 5% 100W 25x25mm	1
188	Resistor 10kOhm 1% 20W 500V TO-220	2
189	Resistor SMD 0603 1kOhm $\pm 5\%$	3
190	Resistor SMD 0603 10kOhm $\pm 5\%$	17
191	Resistor SMD 0603 100kOhm 5%	6
192	Resistor SMD 0603 1.3kOhm $\pm 5\%$	2
193	Resistor SMD 0603 180 Ohm $\pm 5\%$	2
194	Resistor SMD, 1206 220 Ohm $\pm 5\%$	6
195	Resistor SMD 0603 2.2kOhm $\pm 5\%$;	12
196	Resistor SMD 1206 2.2kOhm $\pm 5\%$	1
197	Resistor SMD 0603 22kOhm $\pm 5\%$	4
198	Resistor SMD, 1206 22kOhm $\pm 5\%$	5
199	Resistor SMD 0603 220kOhm $\pm 5\%$	4
200	Resistor SMD 0603 2.4kOhm $\pm 5\%$	1
201	Resistor SMD 0603 330 Ohm $\pm 5\%$	5
202	Resistor SMD 0603 3.3kOhm $\pm 5\%$	1
203	Resistor SMD 0603 33kOhm $\pm 5\%$	2

204	Resistor SMD 0603 39 Ohm $\pm 5\%$	1
205	Resistor SMD 0603 390 Ohm $\pm 5\%$	2
206	Resistor SMD 0603 47 Ohm $\pm 5\%$	1
207	Resistor SMD 0603 470 Ohm $\pm 5\%$	5
208	Resistor SMD 0603 4.7kOhm $\pm 5\%$	8
209	Resistor SMD 0603 47kOhm $\pm 5\%$	1
210	Resistor SMD, 1206 47kOhm $\pm 5\%$	1
211	Resistor SMD 0603 560 Ohm $\pm 5\%$	1
212	Resistor SMD 0603 56kOhm $\pm 5\%$	1
213	Resistor SMD 0603 6.8kOhm 5%	4
214	Resistor SMD 0603 1kOhm $\pm 1\%$	1
215	Resistor SMD 0603 10kOhm $\pm 1\%$	2
216	Resistor SMD 0603 2kOhm $\pm 1\%$	1
217	Resistor SMD 0603 200kOhm $\pm 1\%$	1
218	Resistor SMD 0603 316kOhm $\pm 1\%$	1
219	Trimmer 10kOhm Type Piher PT6V	3
220	Trimmer 50kOhm Type Piher PT6V	3
221	Varistor 360VDC 20mm 100A@595V ERZ-V20D361	1
222	Switch ITT ISOSTAT 532-010-001 (E-SWITCH 520-02-1)	4
223	Microswitch top cover	1
224	Mains switch 2x20a RGSC701-R-B-B-0	1
225	Transistor n-MOSFET SMD, SOT-23 BSS138	1
226	Transistor n-MOSFET SMD, SOT-223 ZVN4424G (BSP88/89/297)	1
227	Transistor STQ3N45K3-AP (STP7N20, IRF710)	1
228	Transistor MOSFET IRFBE30PBF TO-220AB	1
229	Transistor STP3N80FI ISOWATT 220 (IRFBE30)	1
230	Transistor npn SOT-23 BCX19	6
231	Transistor BD139	2
232	Transistor BF469 (BF459, BF471)	1
233	Transistor 2N3904	5
234	Transistor 2N5551	1
235	Transistor BF423 (KF423)	2
236	Transistor pnp SOT-23 BCX17	1
237	Transformer 2x110-2x10.5V 18VA	1
237a	Transformer HV 2x110/2510V 3500VA	1
238	Opto coupler IC TIL111	1
239	IC LM358 Operational amplifier	2
240	IC uA723 Voltage regulator adjustable	1
241	IC uA7805 TO-220 5V regulator	1
242	IC 27C512 (EPROM 120ns DIL28)	1
243	IC SMD QFP80 PCB80C552-5-16H	1
244	OLED 2x20 RAYSTAR type REC002002AYPP5N000001	1
245	IC SMD SO14 CD74HCT132M	2

246	IC SMD SO16 CD74HCT238M	1
247	IC SMD SO8 LM336D	1
248	IC SMD SO8 LM358D	1
249	IC SMD SO8 LM393D	3
250	IC SMD SO16 ULN2003D	3
251	IC SMD SO20 M74HCT573M1	3
252	IC SMD SOT-23 MAX810MTRG 4.38V	1
253	IC SMD SO8 ST24C01M1R (EEPROM)	1
254	Electron tube 4CX1000A	1
255	Quartz crystal 16000kHz HC49/US	1
256	Grid choke (A1010)	1
257	Knob variable capacitor	2
258	Knob bandswitch	1
259	Plate choke	1
260	Antenna choke 60uH	1
261	Coil ceramic L section	1
262	Blower A2000	1
263	Coil air Pi section 2100	1
264	Coil Delrin L2 - 4.5uH	1
265	Coil ceramic Pi section 2100	1
266	Bandswitch 2100	1
267	Cathode choke	1
268	Input transformer	1
269	Antenna switch	1
270	Front panel	1
271	HF load / swamping resistor 30 Ohm 100W	1
272	4CX1000A socket	1
273	Coil air L1 – Input PCB	1
274	Coil air L3 – Input PCB	1
275	Coil air L4 – Input PCB	1
276	Coil air L5 – Input PCB	1
277	Coil air L6 – Input PCB	1
278	Coil air L7 – Input PCB	1
279	Coil air L8 – Input PCB	1
280	Coil air L9 – Input PCB	1