



Exhibit 11: Tuning Procedure and **Parts List**

External Radio Frequency
Power Amplifier ACOM 600S

Model 600S

Array Solutions

2611 North Beltline Rd
Suite 109

Sunnyvale, Texas 75182

USA

Tel: 214 954 7140

fax: 214 954 7142

E-mail: info@arraysolutions.com

4-2. Band change, standard and expanded frequency coverage

When the amplifier is connected to a transceiver with the CAT/AUX interface or to a computer with the RS232 interface, the change of the frequency bands (i.e. change of the amplifier harmonic filters) occurs automatically, following the operating frequency changes from the transceiver or from the computer.

NOTE

In the Stand-by mode the change of bands through the CAT/AUX interface is deactivated temporarily; It is restored at returning to the Operate mode.

The RS232 band change commands operate continuously. If the amplifier gets a band change command during transmission, the transmission is blocked temporarily while the command is being worked out; the amplifier operation is restored after the change of the low-pass filters for the new band (if there is still a transmission request).

When the amplifier is not connected to any interface, the band changes can be accomplished manually or again automatically – through the built-in frequency counter in the amplifier.

Manual change of the frequency band can be done from the basic screen (Fig. 3-2) by the BAND buttons – up and down. It can be done also in the Stand-by mode as well in the Operate mode, but only during reception.

Automatic change of a frequency band via the built-in frequency counter of the amplifier or with CAT/AUX is performed only in the Operate mode. In the Stand-by mode the frequency changes are continuously followed (with the frequency counter – only during transceiver transmissions) but are not performed physically by the low-pass filters. The latest frequency change is performed at entering the Operate mode.

When you rely on an automatic change with the built-in frequency counter, it is a good practice (although not compulsory), that selecting a new band the operator makes one quite short “preliminary” transmission (100ms is enough) and leave a pause (also short) before the main transmission. During this pause the amplifier will change the band according to the new frequency without RF power, after which the operator can continue his operation as usual.

If the new frequency is within the range admissible for the amplifier but outside the currently selected band, the amplifier control unit temporarily blocks transmission while the change of the harmonics filter for the respective new band lasts, after which the transmission continues on the new frequency as usual.

If the new frequency is out of the range admissible for the amplifier (S. 8-1(a)), the transmission request is denied and the following fault message appears on the screen:

“FREQUENCY OUT OF RANGE”

The standard frequency bands within which all amplifier parameters are guaranteed are listed in S. 8-1(a)). Extension or changes of the bands could be negotiated with the manufacturer.

4-3.Change of antennas and operation with an external antenna tuner

At a band change or moving frequency from one to the other end of the band it may be necessary that you change the antenna and eventually retune the antenna tuner (unless your antenna is a multibander and / or is broadband enough).

At antenna SWR over 1.5:1, it is preferable that you use an external tuner. Usually the procedure for retuning the tuner requires a continuous carrier signal and small power. In such a case, go to the STBY mode of the amplifier and feed the power necessary for tuning from the transceiver only. After you have retuned the antenna tuner on the new operating frequency or with the new antenna, return to the Operate mode and adjust again the drive power according to the operating mode used – S. 3-6(f)).

ACOM 600S PARTS LIST

Item No.	Description	Qty.
1	Air Coil 125nH (L303)	1
2	Air Coil 130nH (L302)	1
3	Air Coil 130nH (L304)	1
4	Air Coil 150nH (L301)	1
5	Air Coil 185nH (L306)	1
6	Air Coil 265nH (L305)	1
7	Air Coil 340nH (L308)	1
8	Air Coil 340nH (L309)	1
9	Air Coil 480nH (L307)	1
10	Air Coil 540nH (L311)	1
11	Air Coil 620nH (L310)	1
12	Air Filter PPI20 118x118x10mm	1
13	Attenuator PCB mount Richardson ATC FA10975P10DBFBK)	1
14	Battery LIth Coin 3V 6.8mm SMD VL621-F9D	1
15	BNC Jack Bulkhead Receptacl female panel mount 50 Ohm SB-124A	1
16	BNC Plug Clamp Cable RG316 50 Ohm SB-101	1
17	Bushing PVC black 16x1.6	2
18	BUZZER DC 1.5-30V 24MM 2P PCMT PK21N30PQ	1
19	Cable clip, serie 114 self adhesive	2
20	Cable Holder type CB-5W-2	1

21	Cable Holder with Adhesive Film ESS 206-K	6
22	CAP Switch Black 1A09	6
23	Capacitor aluminium electrolytic SNAP-IN 150uF 450V 105C 25x30mm, RM10mm	6
24	Capacitor aluminium electrolytic 100uF 16V 5x11mm, RM2mm	1
25	Capacitor aluminium electrolytic 100uF 35V 6.3x11mm, RM2.5mm	1
26	Capacitor aluminium electrolytic 10uF 16V 5x11mm, RM2mm	1
27	Capacitor aluminium electrolytic 10uF 50V 105C 5x11mm, RM2mm	2
28	Capacitor aluminium electrolytic 220uF 35V 105C LOW ESR 8x12mm, RM3.5mm	1
29	Capacitor aluminium electrolytic 330uF 25V 105C LOW ESR 8x12mm, RM3.5mm	3
30	Capacitor aluminium electrolytic 330uF 35V 10x12mm RM5mm	1
31	Capacitor aluminium electrolytic 4.7uF 400V 105C 8x12mm RM3.5mm	2
32	Capacitor aluminium electrolytic 470uF 16V 8x12mm RM3.5mm	2
33	Capacitor aluminium electrolytic 470uF 35V 10x20mm RM5mm	1
34	Capacitor aluminium electrolytic 470uF 63V LOW ESR 13x25mm RM5mm	10
35	Capacitor aluminium electrolytic 47uF 16V 105C 5x11mm RM2mm	1
36	Capacitor aluminium electrolytic 47uF 25V 11x5mm RM2mm	1
37	Capacitor aluminium electrolytic SMD 100uF 10V 105C CK series D6.3xL5.4mm	1
38	Capacitor aluminium electrolytic SMD 100uF 16V CS series D6.3xL5.4mm	1
39	Capacitor aluminium electrolytic SMD 100uF 35V CS series D6.3xL7.7mm	1
40	Capacitor aluminium electrolytic SMD 150uF 80V FK series D12.5xL13.5mm	1
41	Capacitor ceramic 100pF 250VAC Y2, D6mm, RM10mm	2
42	Capacitor ceramic 3.3nF 400VAC±20% type Y1, DIA.12mm, RM10mm	1
43	Capacitor ceramic 3300pF 400VAC type TS22 11x6mm, RM 10mm	2
44	Capacitor ceramic 470pF Y1 400VAC type TS22, 9x6mm, RM10mm	2
45	Capacitor ceramic disc 10nF 500V, 10%	4
46	Capacitor ceramic disc 10pF 1000V, 5%	2
47	Capacitor ceramic disc 10pF 6.3kV, 5%	10
48	Capacitor ceramic disc 120pF 6.3kV, 5%	3
49	Capacitor ceramic disc 150pF 6.3kV, 5%	4
50	Capacitor ceramic disc 15pF 6.3kV, 5%	3

51	Capacitor ceramic disc 180pF 3.15kV, 5%	3
52	Capacitor ceramic disc 1nF 250VAC, 10%	1
53	Capacitor ceramic disc 2.2nF 1000V, 5%	1
54	Capacitor ceramic disc 2.2nF 400VAC, 10%	2
55	Capacitor ceramic disc 2.2nF 400VAC, 20%	1
56	Capacitor ceramic disc 2.7pF 5kV, 5%	1
57	Capacitor ceramic disc 220pF 1000V, 10%	1
58	Capacitor ceramic disc 220pF 3.15kV, 5%	2
59	Capacitor ceramic disc 22pF 6.3kV, 5%	4
60	Capacitor ceramic disc 270pF 3.15kV, 5%	1
61	Capacitor ceramic disc 27pF 6.3kV, 5%	6
62	Capacitor ceramic disc 330pF 3.15kV, 5%	5
63	Capacitor ceramic disc 33pF 6.3kV, 5%	11
64	Capacitor ceramic disc 47pF 6.3kV, 5%	1
65	Capacitor ceramic disc 560pF 2kV, 5%	8
66	Capacitor ceramic disc 56pF 6.3kV, 5%	8
67	Capacitor ceramic disc 68pF 6.3kV, 5%	8
68	Capacitor ceramic disc 82pF 6.3kV, 5%	1
69	Capacitor ceramic disc 100pF 6.3kV, 5%	4
70	Capacitor ceramic multilayer SMD 100nF 50V (0805)	1
71	Capacitor ceramic SMD 0805 100nF±5% 50V X7R	14
72	Capacitor ceramic SMD 0805 10nF ±10% 50V X7R	3
73	Capacitor ceramic SMD 0805 1nF±5% 50V X7R	2
74	Capacitor ceramic SMD 0805 1uF±5% 50V X7R	6
75	Capacitor ceramic SMD 0805 2.2nF±5% 50V X7R	1
76	Capacitor ceramic SMD 0805 220pF±5% 50V X7R	1
77	Capacitor ceramic SMD 0805 22nF±5% 50V X7R	4
78	Capacitor ceramic SMD 0805 33nF±5% 50V X7R	3
79	Capacitor ceramic SMD 0805 4.7nF±5% 50V X7R	1
80	Capacitor ceramic SMD 0805 470nF±5% 50V X7R	1

81	Capacitor ceramic SMD 100nF 200V X7R (1206)	21
82	Capacitor ceramic SMD 100nF 50V X7R (0805)	42
83	Capacitor ceramic SMD 10nF 500V X7R (1206)	7
84	Capacitor ceramic SMD 10nF 50V X7R (0805)	58
85	Capacitor ceramic SMD 10pF 50V X7R (0805)	1
86	Capacitor ceramic SMD 10uF 16V X7R (0805)	13
87	Capacitor ceramic SMD 1206 100nF±5% 100V X7R	1
88	Capacitor ceramic SMD 1206 100pF±5% 630V NPO	1
89	Capacitor ceramic SMD 1206 47pF±5% 630V NPO	1
90	Capacitor ceramic SMD 1210 33nF±5% 200V X7R	12
91	Capacitor ceramic SMD 150pF 500V NPO (1206)	1
92	Capacitor ceramic SMD 180pF 1000V NPO (1206)	1
93	Capacitor ceramic SMD 18pF 50V COG (0805)	2
94	Capacitor ceramic SMD 1nF 100V X7R (1206)	5
95	Capacitor ceramic SMD 1nF 50V X7R (0805)	8
96	Capacitor ceramic SMD 1uF 100V X7R (1812)	1
97	Capacitor ceramic SMD 1uF 25V X7R (0805)	6
98	Capacitor ceramic SMD 1uF 50V X7R (0805)	13
99	Capacitor ceramic SMD 1uF 50V X7R (0805)	16
100	Capacitor ceramic SMD 2.2nF 50V X7R (0805)	6
101	Capacitor ceramic SMD 2.2nF 630V U2J (1210)	8
102	Capacitor ceramic SMD 220nF 50V X7R (0805)	1
103	Capacitor ceramic SMD 22pF 50V COG (0805)	3
104	Capacitor ceramic SMD 27pF 100V NPO (1206)	1
105	Capacitor ceramic SMD 3.3pF 630V NPO (1206)	1
106	Capacitor ceramic SMD 33pF 50V X7R (0805)	2
107	Capacitor ceramic SMD 4.7nF 100V X7R (0805)	1
108	Capacitor ceramic SMD 4.7uF 25V X7R (0805)	3
109	Capacitor ceramic SMD 4.7uF 50V X7R (1206)	3
110	Capacitor ceramic SMD 470pF 50V X7R (0805)	1

111	Capacitor ceramic SMD 47pF 630V NPO (1206)	2
112	Capacitor ceramic SMD 560pF 50V COG (0805)	1
113	Capacitor ceramic SMD HI Q 180pF 300V (1210)	1
114	Capacitor Metallized Polyester MKS4 100nF 100V case 12.5x6.5mm, RM10mm	1
115	Capacitor polyester 1uF 275V X2, 32x15mm, RM27.5mm	1
116	Capacitor polyester type KNB1560 2.2uF 275V X1, 32x20mm, RM27.5mm	2
117	Capacitor polyester type MKS4 100nF 630VDC, 18x12.5x6mm, RM15mm	1
118	Capacitor polyester type MKS4 1uF 630VDC, 31.5x21x11mm, RM27.5mm	1
119	Capacitor polyester type MKS4 2.2uF 400VDC, 31.5x21x11mm, RM27.5mm	2
120	Capacitor polyester type MKS4 2.2uF 630VDC, 31.5x17, RM27.5mm	2
121	Capacitor Polypropylene type MKP 33nF 630VDC, 13x9x4mm, RM10mm	2
122	Capacitor Polypropylene type MKX21W21003F00 10nF 275V X1 13x5mm, RM10mm	1
123	Capacitor Polypropylene type TS08S 100nF 275VAC	6
124	Capacitor tantalum SMD 10uF 35V (2312/case C)	1
125	Capacitor tantalum SMD 150uF 10V (case D)	5
126	Choke 0.22uH 680mA	2
127	Choke 1mH 200mA	2
128	Choke SMD 0805 10uH 150mA	2
129	Choke SMD 0805 22uH 100mA	24
130	Choke SMD 1812 10uH	8
131	Choke SMD 1812 56uH	4
132	Choke SMD 2220 180uH 190mA	1
133	Choke SMD 3.3uH (1210)	4
134	Choke SMD DBS 680uH 450mA	1
135	Choke SMD DBS135NP 330uH 600mA	1
136	Choke SMD DBS135NP 68uH 1.5A	1
137	Clamp Cable 3.2x9.5mm nylon (P-clamp)	1
138	Clamp UU9.8	2
139	Colour TFT LCD panel - KWH050TG08-F01	1

140	Connector 1x17 90 deg. 2.54mm pitch SINGLE ROW RIGHT ANGLE PIN HEADER (HR1X17)	1
141	Connector 1x40 90 deg. 2.54mm pitch SINGLE ROW RIGHT ANGLE PIN HEADER (HR1X40)	1
142	Connector cable 10 pos. white MTA100 10 IDC Receptacle white 4-643814-0	3
143	Connector cable 12 pos. white MTA100 12 IDC Receptacle white 4-643814-2	2
144	Connector cable 14 pos. white MTA100 14 IDC Receptacle white 4-640441-4	1
145	Connector cable 2 pos. white MTA100 2 IDC Receptacle white 3-643814-2	5
146	Connector cable 3 pos. white MTA100 3 IDC Receptacle white 3-643814-3	2
147	Connector cable 4 pos. white MTA100 4 IDC Receptacle white 3-644020-4	5
148	Connector cable 6 pos. white MTA100 6 IDC Receptacle white 3-643814-6	2
149	Connector cable 8 pos. white MTA100 8 IDC Receptacle white 3-643814-8	3
150	Connector HEADER Right angle MTA-100 12pos. 1-640457-2	1
151	Connector HEADER Right angle MTA-100 3pos. 640457-3	1
152	Connector HEADER Right angle MTA-100 4pos. 640457-4	2
153	Connector PIN HEADER MTA100 10 STRAIGHT POST FRICTION LOCK 1-640456-0	4
154	Connector PIN HEADER MTA100 12 STRAIGHT POST FRICTION LOCK 1-640456-2	1
155	Connector PIN HEADER MTA100 14 STRAIGHT POST FRICTION LOCK 1-640456-4	1
156	Connector PIN HEADER MTA100 2 STRAIGHT POST FRICTION LOCK 640456-2	4
157	Connector PIN HEADER MTA100 4 STRAIGHT POST FRICTION LOCK 640456-4	2
158	Connector PIN HEADER MTA100 5 STRAIGHT POST FRICTION LOCK 640456-5	1
159	Connector PIN HEADER MTA100 6 STRAIGHT POST FRICTION LOCK 640456-6	3
160	Connector PIN HEADER MTA100 8 STRAIGHT POST FRICTION LOCK 640456-8	2
161	Connector PIN HEADER MTA156 3 STRAIGHT POST FRICTION LOCK 3-643817-3 orange	1
162	Connector SMD female FPC/FFC 40pos 0.5mm Horz FH12A-40S-0.5SH	1
163	Cooling Fan TD1225HS 24V 120x120mm	1
164	Core ETD39/20/13 /T3903	2
165	Core EEL-16A(10P)/FTE T1611	1

166	Core STYLE:ETD-29(14P)/T2901	1
167	Core UU-9.8-2S(4P)/T0901	1
168	Crystal SMD 12MHz, 20pF 20ppm (HC49SM SMD)	1
169	Crystal SMD 16MHz, 16pF 50ppm (HC49/US)	1
170	Crystal SMD 32.768kHz, 9pF, (2-SMD)	1
171	Crystal SMD 7.3728MHz +/- 15ppm, (HC49S / HC49US)	1
172	Diode pair series SMD BAV99 (SOT-23)	1
173	Diode 35A 600V Glass Passivated Bridge Rectifier GBJ3506 (KBJ6)	1
174	Diode Array STTH6003CW 300V, 30A (TO247)	4
175	Diode Fast Rec FFP08S60STU 600V 8A (TO220-2L)	2
176	Diode FFP08H60STU Rectifier 600V, 8A (TO220-2)	1
177	Diode Gen Purp 1N5406 600V, 3A (DO201AD)	1
178	Diode High Efficiency HER307 (DO-201)	1
179	Diode S1B 100V, 1A (DO214AC)	4
180	Diode S1G 400V, 1A (DO214AC)	2
181	Diode S1M 1000V, 1A (DO214AC)	1
182	Diode Schottky SMD B0540W-7-F 40V 0.5A (SOD123)	1
183	Diode Schottky SMD BAS70-04 (SOT23)	3
184	Diode Schottky SMD SK14 40V 1A (DO214AA)	1
185	Diode SMD 1N4148 (SOD-123)	6
186	Diode SMD 1N4148W-V-GS08 Fast Switching, 100V (SOD-123)	2
187	Diode SMD 1N5819 400V, 1A (SMA/DO214AC)	2
188	Diode SMD 1N5819 400V, 1A (SOD123)	7
189	Diode SMD BAS16 (SOT23)	16
190	Diode SMD Fast Recovery High Voltage BYGM 1000V, 1.5A (SMA)	1
191	Diode SMD LL4148 (mini-melf)	2
192	Diode SMD S1A 50V, 1A (DO214AC)	2
193	Diode SMD S1G 1A, 400V (SMA)	8
194	Diode SMD SMAJ16 16V 400W (SMA)	1
195	Diode SMD Super Fast ES1JL 600V 1A (SMA)	1

196	Diode SMD UF3GB Ultra Fast (SMB)	3
197	Diode Schottky SMD BAT65S 30V, 200mA (SOT23)	5
198	Diode Ultra Fast STTH3006W 600V 30A (DO247)	1
199	Diode Ultra Fast FFP08H60STU 600V, 8A (TO220)	1
200	Diode Zener SMD 1SMB5956BT3 C200 3W (SMB)	2
201	Diode Zener SMD BZV55C12 12V (SOD80C)	1
202	Diode Zener SMD BZV55C62 62V (SOD80C)	1
203	Diode Zener SMD BZV55C6V2 6.2V (SOD80C)	2
204	Diode Zener SMD BZX84C12 12V 250mW (SOT23)	1
205	Diode Zener SMD BZX84C15 15V (SOT23)	1
206	Diode Zener SMD BZX84C24 24V 250mW (SOT23)	1
207	Diode Zener SMD BZX84C4V7 4.7V 250mW (SOT23)	11
208	Diode Zener SMD BZX84C5V6 5.6V (SOT23)	1
209	Double Pole Rocker Switch 250V, 10A MR210-C2N-BBNN	1
210	D-Sub connector Footprint Right angle DIP solder Canon 15 DHR15SR	1
211	D-Sub connector Footprint Right angle DIP solder Canon 9 DB9BFR	1
212	Dual Row Multiple shunt (jumper) 2.54/6mm	1
213	Dual Row Pin Header 2.54mm 2x40 HN2x40	4
214	Dual Row Pin Header 2.54mm 2x5 (BH10S)	1
215	E Cores - Core halves E16/12/5 3C90	2
216	Fan TD6010 60x60mm24V	1
217	Female disconnectors 0.5 – 1 mm ² , completely insulated 44043	4
218	Female disconnectors 0.5 – 1 mm ² , completely insulated 44044	2
219	Female disconnectors 1.5 – 2.5 mm ² , completely insulated 44047	4
220	Ferrite bead AL=300nH	4
221	Ferrite bead SMD 1000ohm/100MHz (0805)	1
222	Ferrite bead SMD 330ohm/100MHz (0805)	6
223	Ferrite Core - Double Aperture 20x22, u125	1
224	Ferrite Core - Double Aperture 20x22, u250	1
225	Ferrite Core - Double Aperture 32x32, u125	1

226	Ferrite core 8x31mm u80	6
227	Ferrite core E25/7(EF25/7.5) K2006	2
228	Ferrite core E25x13x7 type B66208J1110T1	1
229	Ferrite core ETD-29/16/10, material N87	2
230	Ferrite core ETD39/20/13, material 3C90	2
231	Ferrite core ETD39/20/13, material N97	2
232	Ferrite core U10x8x3, material NC-10H/UU9.8 F07	3
233	Ferrite tube 3.5x1.2x5mm u80	3
234	Ferrite tube 4x2x5mm u300	1
235	Ferrite tube 6x3x10mm u2000	4
236	Foot series 066 066 0200 114 07	4
237	Fuse 10A 250V Fast (Quick blow), 5 x 20mm	3
238	Fuse 6.3A 250V Fast (Quick blow), 5 x 20mm	2
239	Fuse Holder snap-in WTN1114R2 5x20mm	2
240	Heat shrinkable tubing dia. 3mm	30mm
241	Heat shrinkable tubing dia. 4mm	15mm
242	IC LM2575-5.0V (TO220)	1
243	IC LM317MDT (TO252)	1
244	IC M51957B (5-SIP)	1
245	IC SMD ACS713, 30A, 250V, (SO8)	1
246	IC SMD DSPIC30F6014A-30I/PT (TQFP80 12x12mm)	1
247	IC SMD LD1117S33TR IC REG LDO 3.3V 0.95A (SOT223)	1
248	IC SMD 24LC512-I/SN IC EEPROM 512KBIT 400KHZ (8SOIJ)	1
249	IC SMD 4HC30D IC GATE NAND 8INPUT HS (14SOIC)	1
250	IC SMD 74AC04 (SO14)	1
251	IC SMD 74ACT74 (SO14)	1
252	IC SMD 74HC00 IC QUAD 2-INPUT NAND GATE (14SOIC)	1
253	IC SMD 74HC125 (SO14)	1
254	IC SMD 74HC4051 (SO16)	2
255	IC SMD 74HC573 (TSSOP20)	5

256	IC SMD 74HC86 (SO14)	1
257	IC SMD 78L05 5V/0.1A (SOT89)	2
258	IC SMD 78L12 12V/0.1A (SOT89)	1
259	IC SMD AGB75LC04-QU-E IC GUI PROC 24BIT COLOR (208PQFP)	1
260	IC SMD AT45DB041E IC DATAFLASH 4MBIT 85MHZ (8SOIC)	1
261	IC SMD AT45DB321D-SU DATAFLASH 32MB SERIAL 2.7V (8SOIC)	1
262	IC SMD ATMEGA128A-AU IC MCU 8BIT 128KB FLASH (64TQFP 14x14mm)	1
263	IC SMD CD4047 (SO14)	1
264	IC SMD DS1307ZN RTC SERIAL 512K IND (8-SOIC)	1
265	IC SMD DS1818R-10 IC ECONRST 3.3V W/PB 10% (SOT23-3)	1
266	IC SMD IS42S32200E, SDRAM 64MBIT 143MHz (86TSOP)	1
267	IC SMD IS62C1024AL-35QLI 128Kx8 bit Low Power CMOS Static RAM (SOP32)	1
268	IC SMD LD1117S12TR IC REG LDO 1.2V 0.95A (SOT223)	1
269	IC SMD LM324 (SO14)	1
270	IC SMD LM358 (SO8)	3
271	IC SMD LM358D (SO8)	4
272	IC SMD LTV817 (SMD-4)	4
273	IC SMD MAX232 DVR/RCVR RS232 5V SGL (16NSOIC)	1
274	IC SMD MAX232D (SO16)	3
275	IC SMD MC34063 - SO8 IC REG BUCK BOOST INV ADJ (8SOIC)	1
276	IC SMD MCP120T-475 SUPRVSR 4.75V OPN DRAIN (SOT23)	1
277	IC SMD TEA1721AT (SO7)	1
278	IC SMD TS431 (SOT23)	4
279	IC SMD UC3855BDW (SO20)	1
280	IC SMD UCC27424 (SO8)	2
281	IC SMD UCC2895DW (SO20)	1
282	IC SMD ULN2003A (SO16)	1
283	IC TOP244YN (TO220)	1
284	Insulated terminals with soldered seam and easy-entry insulation 1.5 – 2.5 mm2 DIN 46 237 42021	2

285	Iron powder toroid N29/19/15-2P65	1
286	Iron powder toroid TN27/15/11-2P65	1
287	LED 3mm green TLHG4400	1
288	LED SMD KP-2012EC red (0805)	11
289	LED SMD KP-2012SGC green (0805)	2
290	Lens mount/red CLB300RTP + SPC125	1
291	Mini USB chassis socket type B 5 Poles Receptacle SMT (LUMBERG 2486 01)	1
292	Noninsulated terminals with brazed seam 0.5 – 1 mm ² DIN 46234 41013	2
293	PC Test Terminal Lug .130" DIM	1
294	Phono (RCA) Jack female snap-fit 90 deg. 901K	2
295	Relay RTE24024 (Schrack) 8A 24VDC DPDT	16
296	Relay General Purpose OZ-SS-112L SPST 16A 12V	1
297	Relay RT334012 (Schrack) SPST 16A 12V	2
298	Relay RTE25012 (Schrack) 2 pole 8A 12V	2
299	Relay TQ2-12V Telecom DPDT 1A 12V	2
300	Resistor array SMD 4x330 Ohm \pm 5% (1206)	3
301	Resistor metal film 1 MOhm \pm 5% 1W	1
302	Resistor metal film 15 Ohm \pm 5% 2W	1
303	Resistor metal film 33 kOhm \pm 5% 2W	1
304	Resistor metal film 330 Ohm \pm 5% 1W	1
305	Resistor metal film 330 Ohm \pm 5% 3W	2
306	Resistor metal film 390 Ohm \pm 5% 0.5W	1
307	Resistor metal oxide 18 Ohm \pm 5% 3W	4
308	Resistor metal oxide 33 Ohm \pm 5% 3W	2
309	Resistor metal oxide 39 kOhm \pm 5% 3W	1
310	Resistor precise metal film 750 kOhm \pm 1% 0.6W	1
311	Resistor precise SMD 0.47 Ohm \pm 1% (1206)	1
312	Resistor precise SMD 1 kOhm \pm 1% (0805)	21
313	Resistor precise SMD 1 Ohm \pm 1% (0805)	1

314	Resistor precise SMD 1.1 kOhm \pm 1% (1206)	1
315	Resistor precise SMD 1.2 kOhm \pm 1% (0805)	6
316	Resistor precise SMD 1.2 MOhm \pm 1% (0805)	1
317	Resistor precise SMD 1.5 kOhm \pm 1% (0805)	1
318	Resistor precise SMD 10 kOhm \pm 1% (0805)	20
319	Resistor precise SMD 10 Ohm \pm 1% (0805)	1
320	Resistor precise SMD 100 kOhm \pm 1% (0805)	3
321	Resistor precise SMD 100 Ohm \pm 1% (0805)	4
322	Resistor precise SMD 102 kOhm \pm 1% (0805)	1
323	Resistor precise SMD 11 kOhm \pm 1% (0805)	1
324	Resistor precise SMD 120 kOhm \pm 1% (0805)	3
325	Resistor precise SMD 15 kOhm \pm 1% (0805)	2
326	Resistor precise SMD 150 kOhm \pm 1% (0805)	1
327	Resistor precise SMD 16.5 Ohm \pm 1% (0805)	2
328	Resistor precise SMD 160 kOhm \pm 1% (0805)	1
329	Resistor precise SMD 17.8 kOhm \pm 1% (0805)	1
330	Resistor precise SMD 18 kOhm \pm 1% (0805)	1
331	Resistor precise SMD 2 kOhm \pm 1% (0805)	2
332	Resistor precise SMD 2.2 kOhm \pm 1% (0805)	10
333	Resistor precise SMD 2.32 kOhm \pm 1% (0805)	1
334	Resistor precise SMD 2.4 kOhm \pm 1% (0805)	5
335	Resistor precise SMD 2.7 kOhm \pm 1% (0805)	2
336	Resistor precise SMD 200 kOhm \pm 1% (0805)	7
337	Resistor precise SMD 21.5 kOhm \pm 1% (0805)	1
338	Resistor precise SMD 22 kOhm \pm 1% (0805)	5
339	Resistor precise SMD 23.7 kOhm \pm 1% (0805)	1
340	Resistor precise SMD 24.9 kOhm \pm 1% (0805)	2
341	Resistor precise SMD 240 kOhm \pm 1% (0805)	2
342	Resistor precise SMD 270 kOhm \pm 1% (0805)	13
343	Resistor precise SMD 270 kOhm \pm 1% (1206)	4

344	Resistor precise SMD 270 Ohm \pm 1% (0805)	1
345	Resistor precise SMD 3.3 kOhm \pm 1% (0805)	3
346	Resistor precise SMD 3.6 kOhm \pm 1% (0805)	1
347	Resistor precise SMD 3.9 kOhm \pm 1% (0805)	1
348	Resistor precise SMD 30 kOhm \pm 1% (0805)	5
349	Resistor precise SMD 332 kOhm \pm 1% (1206)	4
350	Resistor precise SMD 390 kOhm \pm 1% (0805)	4
351	Resistor precise SMD 4.7 kOhm \pm 1% (0805)	3
352	Resistor precise SMD 4.7 kOhm \pm 1% (2512)	1
353	Resistor precise SMD 4.87 kOhm \pm 1% (0805)	1
354	Resistor precise SMD 40.2 kOhm \pm 1% (0805)	1
355	Resistor precise SMD 47 kOhm \pm 1% (0805)	2
356	Resistor precise SMD 47 Ohm \pm 1% (1206)	10
357	Resistor precise SMD 470 Ohm \pm 1% (1206)	1
358	Resistor precise SMD 49.9 kOhm \pm 1% (0805)	1
359	Resistor precise SMD 5.1 kOhm \pm 1% (0805)	6
360	Resistor precise SMD 51 Ohm \pm 1% (0805)	1
361	Resistor precise SMD 510 Ohm \pm 1% (0805)	1
362	Resistor precise SMD 6.2 kOhm \pm 1% (0805)	1
363	Resistor precise SMD 68 kOhm \pm 1% (0805)	2
364	Resistor precise SMD 7.5 Ohm \pm 1% (0805)	1
365	Resistor precise SMD 8.25 kOhm \pm 1% (0805)	1
366	Resistor precise SMD 90.9 kOhm \pm 1% (0805)	1
367	Resistor SMD 0 Ohm \pm 5% (0805)	6
368	Resistor SMD 0 Ohm \pm 5% (1206)	11
369	Resistor SMD 1 kOhm \pm 5% (0805)	46
370	Resistor SMD 1 kOhm \pm 5% (1206)	5
371	Resistor SMD 1.1 kOhm \pm 5% (0805)	2
372	Resistor SMD 1.3 kOhm \pm 5% (1206)	2
373	Resistor SMD 1.5 Ohm \pm 5% (2010)	1

374	Resistor SMD 10 kOhm±5% (0805)	24
375	Resistor SMD 10 Ohm±5% (1206)	8
376	Resistor SMD 100 kOhm±5% (0805)	10
377	Resistor SMD 100 Ohm±5% (0805)	3
378	Resistor SMD 100 Ohm±5% (1206)	2
379	Resistor SMD 12 Ohm±5% (2010)	1
380	Resistor SMD 15 kOhm±5% (0805)	1
381	Resistor SMD 150 Ohm±5% (0805)	1
382	Resistor SMD 180 Oh±5%m (0805)	1
383	Resistor SMD 2 kOhm±5% (0805)	25
384	Resistor SMD 2.2 kOhm±5% (0805)	2
385	Resistor SMD 22 kOhm±5% (0805)	5
386	Resistor SMD 22 Ohm±5% (2010)	6
387	Resistor SMD 220 kOhm±5% (0805)	1
388	Resistor SMD 220 Ohm±5% (1206)	3
389	Resistor SMD 27 kOhm±5% (0805)	1
390	Resistor SMD 27 Ohm±5% (0805)	2
391	Resistor SMD 3.3 kOhm±5% (0805)	5
392	Resistor SMD 3.3 Ohm±5% (2512)	4
393	Resistor SMD 300 Ohm±5% (0805)	1
394	Resistor SMD 330 kOhm±5% (0805)	2
395	Resistor SMD 330 Ohm±5% (0805)	7
396	Resistor SMD 39 Ohm±5% (0805)	2
397	Resistor SMD 390 Ohm±5% (2010)	5
398	Resistor SMD 4.7 kOhm±5% (0805)	12
399	Resistor SMD 47 kOhm±5% (0805)	3
400	Resistor SMD 47 Ohm±5% (0805)	12
401	Resistor SMD 470 kOhm±5% (0805)	1
402	Resistor SMD 5.1 Ohm±5% (1206)	6
403	Resistor SMD 510 Ohm±5% (0805)	1

404	Resistor SMD 510 Ohm±5% (1206)	2
405	Resistor SMD 560 Ohm±5% (0805)	2
406	Resistor SMD 6.8 kOhm±5% (0805)	1
407	Resistor SMD 6.8 kOhm±5% (1206)	1
408	Resistor SMD 6.8 Ohm±5% (0805)	1
409	Resistor SMD 680 Ohm±5% (0805)	2
410	Resistor SMD 8.2 Ohm±5% (1206)	1
411	Resistor wirewound 39 Ohm±5% 3W	1
412	Resistor wirewound 82 Ohm±5% 3W	1
413	RF Toroid T130-6	8
414	RF Toroid T68-18	1
415	Ring core 10/6/4 u125	1
416	Ring core 17/10/6.6 u125	8
417	Ring core 22/13.2/6.35 u40	2
418	Ring core R 10/6/4 u125	1
419	Ring core R 10/6/4 u6000	6
420	Ring core R23/14/7 K5500	1
421	Silicone insulator CPU7-0.2TA type SB-600A	1
422	Silicone Insulator Heat sink pad P-TO3P	4
423	Single Pole Rocker Switch round 12A/250V SPST MR2-141-R2-BB-6NN	1
424	Single Row Female Header 1x10 2.54x2.5mm (PN1x10)	1
425	Single Row Female Header 1x8 2.54x2.5mm (PN1x8)	1
426	Single Row Pin Header 2.54mm 1x10 HN1x10	2
427	SMA Jack Straight PCB receptacle 50 Ohm SSA-1108-3	1
428	SMA Plug Crimp Cable RG174 50 Ohm SSA-1102	1
429	Square Fan DC 24V 3.6W, 90x90x25mm KDE2409PTB1-6	1
430	Switch SMD DIP OFF ON SPST 2 Raised Slide 0.025A 24VDC DM-02-V	1
431	Switch Tactile SPST-NO 0.05A 24V 3ATL6	6
432	Tact momentary switch SMD 2p SPST SMD 6x6x5.0 mm	2

433	Terminal PC RA Male 6.35mm Tab width 0.81mm Tab thickness 4966K	4
434	Terminal PCB Snap-in vert. M3 Thread 7788k	
435	Terminal PCB tin plated K15 15A, 300V vert.	4
436	Test Point PC Compact 1.6mm hole diameter 5005K	1
437	Thyristor logic level type BT169D (TO92)	1
438	Toroidal Coil 0.68uH (L315)	1
439	Toroidal Coil 0.9uH (L314)	1
440	Toroidal Coil 1.4uH (L317)	1
441	Toroidal Coil 1.85uH (L316)	1
442	Toroidal Coil 2.8uH (L319)	1
443	Toroidal Coil 3.7uH (L318)	1
444	Toroidal Coil 500nH (L313)	1
445	Toroidal Coil 650nH (L312)	1
446	Transistor MOSFET 20N60C3 (TO247)	4
447	Transistor MOSFET N-CHANNEL 24N50 (TO247)	4
448	Transistor MOSFET N-Channel MRFE6VP6300 1.8 - 600 MHz 300 W 50 V	2
449	Transistor SMD 2N7002 60V 300mA (SOT23)	1
450	Transistor SMD 2SC4116 (SOT23)	1
451	Transistor SMD BC807- 40 (SOT23)	1
452	Transistor SMD BC817 (SOT23)	1
453	Transistor SMD BC817-40 (SOT23)	1
454	Transistor SMD BC847 (SOT23)	2
455	Transistor SMD BC857 (SOT23)	1
456	Transistor SMD BCX52 (SOT89A)	5
457	Transistor SMD BCX55 (SOT89)	7
458	Transistor SMD BSS138 N-MOS (SOT23)	5
459	Transistor SMD DDA114YU (SOT363)	14
460	Transistor SMD DDTC143XUA (SOT323)	5
461	Transistor SMD MMBT2907 (SOT23)	1
462	Transistor SMD MOSFET 2N7002 (SOT23)	1

463	Transistor TIP122 (TO220)	1
464	Trimmer 1 kOhm \pm 10%, 100ppm 3362X-1-102LF	1
465	Trimmer 10 kOhm \pm 10% EVN- D8AA03B13	2
466	Trimmer 10 kOhm \pm 10% M64P502KB40	2
467	Trimmer 4.2/20pF TZ03R200F169B00	1
468	Trimmer 5-40pF 100V, 10%	1
469	UHF Coaxial Connector Panel Mount (TFE Insul.) SO239	2
470	Varistor 430V 6.5KA Disc 20mm ERZV20D431 300V	1
471	Thermistor 10kOhm \pm 3%, 0,015W	1
472	Thermistor NTC type SCK20150 20mm 15 Ohm 4.5A	2