

KN-Q7A 40m version Part List 20130518, for PCB V2.2

Note: This is only for 40m version. For 20m version, see <http://crkits.com/knq7a20mpartlist.pdf>

Part	Qty	Comments
Resistors		
10 Ω	4	BRN-BLK-BLK-GLD-BRN
27 Ω	1	RED-VIO-BLK-GLD-BRN
51 Ω	1	GRN-BRN-BLK-GLD-BRN
120 Ω	1	BRN-RED-BLK-BLK-BRN
220 Ω	1	RED-RED-BLK-BLK-BRN
220 Ω 1W	1	RED-RED-BLK-BLK-BRN, Big Size
330 Ω	1	ORG-ORG-BLK-BLK-BRN
680 Ω	1	BLU-GRY-BLK-BLK-BRN
1.5 kΩ	7	BRN-GRN-BLK-BRN-BRN. Was 6 pcs on PCB V2.1.
3.3 kΩ	3	ORG-ORG-BLK-BRN-BRN
10 kΩ	4	BRN-BLK-BLK-RED-BRN. Was 3 pcs on PCB V2.1.
100 kΩ	2	BRN-BLK-BLK-ORG-BRN
10 kΩ trimmer	1	103. Blue and White. 3-pin. Was 2 pcs on PCB V2.1 and V2.1a.
10 kΩ potentiometer	2	A10K marking for TUNE, B10K marking for IF GAIN.
Capacitors		
2 pF NPO	2	2. Ceramic
27 pF NPO	5	27. Ceramic
47 pF NPO	11	47. Ceramic
68 pF NPO	1	68. Light green body
120 pF 100 V NPO	1	121. Light green body. Was 2 pcs on PCB V2.1 and V2.1a.
470 pF 100 V NPO	4	471. Light green body
0.01 μF	7	103. Ceramic
0.1 μF	34	104. Ceramic. Was 35 pcs on PCB V2.1 and V2.1a.
10 μF 50 V	1	Electrolytic capacitor
100 μF 25 V	2	Electrolytic capacitor
1000 μF 25 V	3	Electrolytic capacitor
50 pF trimmer capacitor	1	9~50 pF range, for BFO tuning
Diodes, Transistors and IC's		
1N4148	6	Glass body. Band is cathode.
1N5401	1	Black body. Band is cathode. Was 2 pcs on PCB V2.1.
BB910	1	Black body, similar to TO-92 transistor. 2-pin. Varicap diode.
C8050 or S8050	1	TO-92 transistor. 3-pin. RX muting.
C3357	1	RE or RF marking. SMD 3-pin. First TX amplifier.
D882	1	TO-126 transistor. 3-pin. TX driver amplifier.
IRF530	1	TO-220 MOSFET. 3-pin. Final TX amplifier. Was IRF640 on PCB V2.1 and V2.1a.
7808	1	TO-220 IC. 3-pin. 8V voltage regulator.
NE602A	2	DIP-8 IC. Balanced mixer.
MC1350	1	DIP-8 IC. IF amplifier.
TDA2822M	1	DIP-8 IC. Audio amplifier.
IC Socket	4	DIP-8. Not offered on PCB V2.1 and V2.1a.
Inductors		
4.7 μH Solenoidal	1	YEL-VIO-GLD-SLV
22 μH Solenoidal	1	RED-RED-BLK-SLV
100 μH Solenoidal	3	BRN-BLK-BRN-SLV
FT37-43 Toroid	3	Black, for RF wide-band transformers, 5 turns bifilar, was NXO-100 on PCB V2.1
T37-2 Toroid	2	Red, for low-pass filters, 15 turns, was NXO-10 on PCB V2.1

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Magnet Wire	2m	For toroids winding, was enamel wire on PCB V2.1
7M IFT/ shielded coil	5	DIY7-7, one needs rework to remove built-in tubular capacitor.
Others		
IF Crystals	8	8.467 M or 8.192 M, depending on operation frequency range
VXO Crystals	1 or 2	15.360 MHz, 15.418 MHz, 15.500 MHz, 15.536 MHz or 15.570 MHz, depending on operation frequency range
Black chassis screw	8	For front and rear panels.
Chassis Feet	4	14 mm tall.
TO-220 thermal insulator	2	For IRF640 and D882, as insulator between chassis and plate
TO-220 washer	1	Small and white, for IRF640, as insulator between plate and nut
Silver M3x10 Screw	7	For chassis feet and semiconductors.
Silver M3 Nut	7	Was 11 pcs on PCB V2.1 and V2.1a
Silver M3x6 Screw	0	For antenna connector. Flat head. Was 4 pcs on PCB V2.1 and V2.1a
Soldering Tab	0	For antenna connector ground connection. Was 1 pcs on PCB V2.1 and V2.1a
Phone Jack	1	3.5mm, for speaker output
DC IN Connector	1	2.1mm type. Center positive.
Mic Connector	1	8-pin type socket.
SIP5 Connector	1	One pair with cable, for mic connector to PCB connection. Was SIP4 on PCB V2.1 and V2.1a
Black plastic knob	1	Smaller, for IF GAIN control
Silver and black knob	1	Bigger, for TUNE control
9V Relay	4	HK4100F-DC9V-SHG. Yellow body
Antenna Connector	1	BNC type, PCB mount. Was SL-16 type, equivalent to M-type or SO-239 type. Chassis mount.
Chassis	1	Black, aluminum alloy material
PCB set of 3 pcs	1	Including main board, black front panel and rear panel.
Quick Guide	1	Printed one-page guide.