

# TxTopper List of Materials

W5USJ QRP Amplifier

10 Dec '08

**Note: Parts other than those listed here may not fit the PCB layout or produce the desired results!**

ID	Description	Supplier	Part No.	Qty Used	Price Ea	Buy Qty	Total
PCB	Printed Circuit Board	QRPme.com			\$11.00	1	\$11.00
<b>Capacitors</b>							
C1 - C4, C11,	0.1 uf	Mouser	581-SR201C104KAR	5	0.18	5	\$ 0.90
C13, C14	0.1 uf	Mouser	581-SR201C104KAR	2	0.18	2	\$ 0.36
C10	0.01uF	Mouser	581-SR151C103KAR	1	0.14	1	\$ 0.14
C12	2.2 uf Electrolytic	Mouser	140-MLRL50V2.2-RC	1	0.11	1	\$ 0.11
<b>Resistors (5%)</b>							
				1			
R3	51 Ohm Grn Brn Blk	Mouser	660-CF1/4C510J	1	0.05	1	\$ 0.05
R1	1.2k Ohm Brn Red Red	Mouser	660-CF1/4C122J	1	0.05	1	\$ 0.05
R2	12 Ohm Brn Red Blk	Mouser	660-CF1/4C120J	1	0.05	1	\$ 0.05
R6	100 Ohm Brn Blk Brn	Mouser	660-CF1/4C101J	1	0.05	1	\$ 0.05
R4	1k Ohm Brn Blk Red	Mouser	660-CF1/4C102J	1	0.05	1	\$ 0.05
R5	47k Ohm Yel Vio Orn	Mouser	660-CF1/4C473J	1	0.05	1	\$ 0.05
R7, R8, R9	See Assembly -- Optional	Mouser	660-CF1/4CvalueJ	3	0.05	3	\$ 0.15
R10	500 Ohm Pot -- Optional	Mouser	652-3352W-1-501LF	1	1.42	1	\$ 1.42
<b>Semi-conductors</b>							
LED	FET Bias Voltage	Mouser	604-WP132XGD (2.2v)	1	0.11	1	\$ 0.11
D1, D2, D3	1N914 Diode	Mouser	512-1N914A	3	0.06	3	\$ 0.18
Q2	2N2222A	Mouser	610-2N2222A	1	0.44	1	\$ 0.44
Q1	STP16NF06 MOSFET	Mouser	511-STP16NF06	1	0.41	1	\$ 0.41
K1	Omron Relay Low Current	Mouser	653-G5V-2-H-DC12	1	2.49	1	\$ 2.49
<b>Toroid Cores/Magnet Wire</b>							
	T50-2 toroid - Red		T50-2	2 ea for 80, 40, 30 meters			
	T50-6 toroid - Yellow		T50-6	2ea for 20 meters			
	FT37-43 toroid		FT37-43	1			
	FT50-43 toroid		FT50-43	1			
	Magnet Wire Asst. #22/#26		AR	AR			
<b>Bandpass Filters (Capacitors are Kemet 200V Ceramics)</b>							
<b>80M</b>							
C5,C9	680pf Capacitor	Mouser	<b>80-C322C681J2G</b>	2	0.28	2	\$ 0.56
C6	100pf Capacitor	Mouser	80-C315C101J2G	1	0.21	1	\$ 0.21
C7	1200pf Capacitor	Mouser	<b>80-C320C122J2G</b>	1	0.33	1	\$ 0.33
C8	220pF Capacitor	Mouser	80-C315C221J2G	1	0.24	1	\$ 0.24
<b>40M</b>							
C5,C9	330pf Capacitor	Mouser	80-C315C331J2G	2	0.28	2	\$ 0.56
C6	47pf Capacitor	Mouser	80-C315C470J2G	1	0.21	1	\$ 0.21
C7	680pF Capacitor	Mouser	<b>80-C322C681J2G</b>	1	0.28	1	\$ 0.28
C8	150pF Capacitor	Mouser	80-C315C151J2G	1	0.23	1	\$ 0.23
<b>30M</b>							
C5, C9	220pF Capacitor	Mouser	80-C315C221J2G	2	0.24	2	\$ 0.48
C6	47pf Capacitor	Mouser	80-C315C470J2G	1	0.21	1	\$ 0.21
C7	470pF Capacitor	Mouser	80-C315C471J2G	1	0.28	1	\$ 0.28
C8	82pF Capacitor	Mouser	80-C315C820J2G	1	0.21	1	\$ 0.21
<b>20M</b>							
C5, C9	220pF Capacitor	Mouser	80-C315C221J2G	2	0.24	2	\$ 0.48
C6	68pF Capacitor	Mouser	80-C315C680J2G	1	0.22	1	\$ 0.22
C7	470pF Capacitor	Mouser	80-C315C471J2G	1	0.28	1	\$ 0.28
C8	27pF Capacitor	Mouser	80-C315C270J2G	1	0.21	1	\$ 0.21
<b>Mouser Total</b>							<b>\$ 11.79</b>

Enclosures, peripheral connectors and other parts are the builders choice. Some suggestions might be:

Enclosure - The BC#1 from QRPkits.com, BNC Connectors, #14 ga pigtail using Power Pole connectors for DC supply.