

A. LED D3: the anode is the long lead and should go to the hole in the square pad. Do not solder this LED into the board. It will be on the front panel with extension leads connecting it to the PCB.

B. Coax jumper on top of board: use a 4" piece of the RG174 to go from "jmp1" located next to J1, over to "JUMP" located near Q1.

C. Bypass capacitors C67-C75 and C80-C86: the parts supplied have too narrow a lead spacing to fit the footprint in the board and need to be spread apart. Use a small needle nose plier to hold the lead when you bend it so as not to introduce small cracks in the seal of the ceramic body. Bend one lead as suggested below. Take care that the horizontal part of the bent lead does not short to any traces on the top of the board that go between the pads. This same technique should also be used for other caps having too close a lead spacing to fit the holes without straining the leads.



D. Capacitor C77 has the opposite problem to that above. Similarly bend one of its leads toward the other to shorten the spacing.

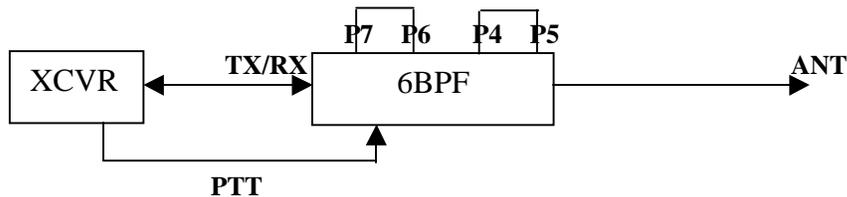
F. Cut lengths for the RG-174 coax.

9 3/4" for the piece going to J1 on the PCB

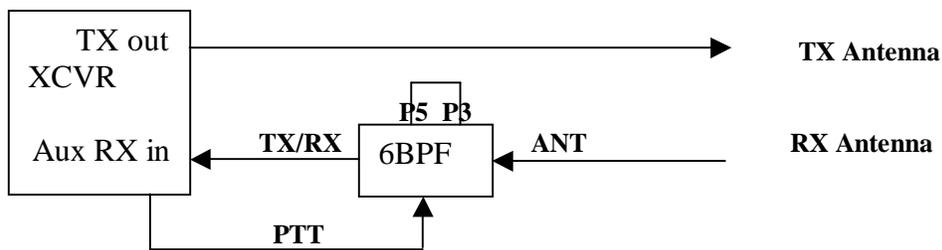
10 1/4" for the piece going to J2 on the PCB

G. Wiring of Option Jumpers P3-P7:

For using the filter with a radio that transmits and receives on the same connector (the usual situation), put a jumper between P7 and P6, and another between P4 and P5, and be sure to hook up a PTT signal to the filter. Keep the jumpers at least 1/8" away from other traces on the PCB. (And see K1NQ's warnings about the absolute necessity of using a PTT signal, and its delay requirement.) When you transmit, the TX/RX port of the 6BPF will then be switched directly to its ANT port, bypassing any selected filter section, but you must have proper PTT setup for that to happen.



For use with a radio's Aux RX input or a separate receiver, put just one jumper between P5 and P3.



This will disconnect the RX antenna and grounds the 6BPF TX/RX port during transmit. Again, see the K1NQ PTT setup warnings.

H. Delay putting in the largest caps until last, as they repeatedly got bent when the board was turned over. They could go in last, after the toroids. (tnx N1MM)

I. For spacers to mount the PCB in the box, use 1/4" high spacers for #6 screws. You can also use 2 dia 5/16" #6 nuts and a #6 flat washer as a spacer.

J. For the band decoder connector (J3) use the MALE on the chassis so that the cable end from the band decoder would not have live conductors exposed when it is not plugged in. The cable end would then be female. (The BOM looks like it has female on the chassis.)

Please let us know of any further comments for this list.