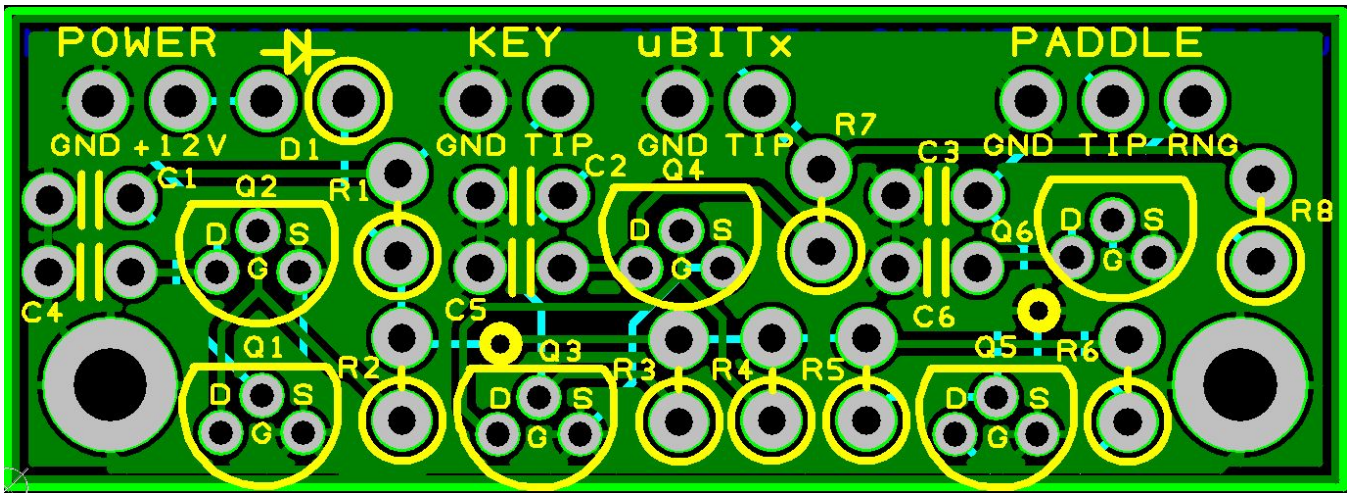
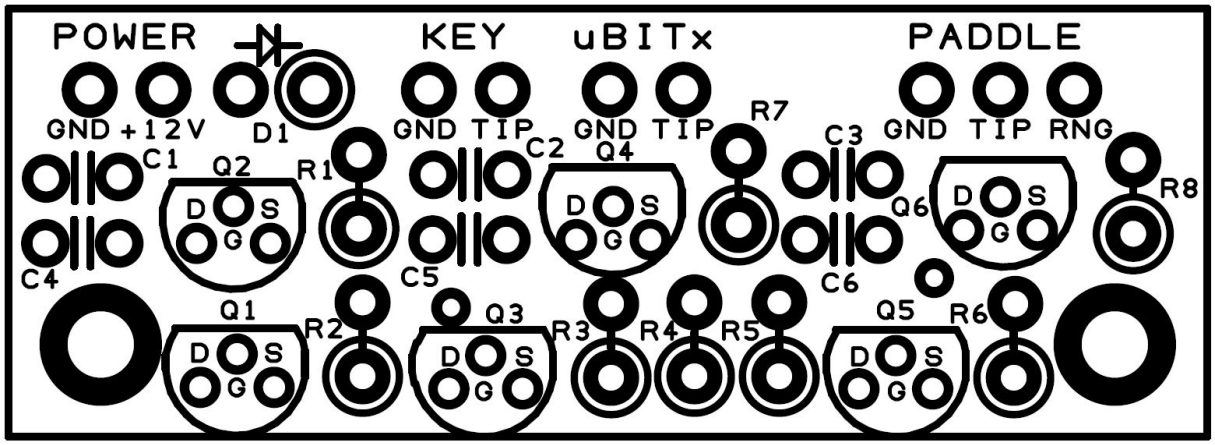
uBITx CW Keying Adapter



Parts List

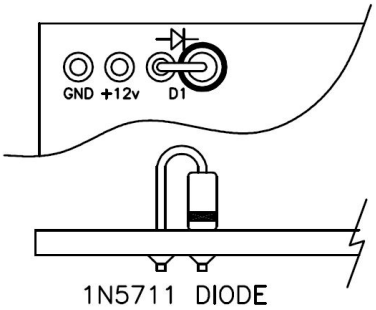
1 – Adapter pcb
6 – Q1,2,3,4,5,6, 2N7000 FET
1 – D1, 1N5711 diode
3 – C1,2,3, .1uF mono capacitor
3 – C4,5,6, .01uF mono capacitor
6 – R1,2,3,4,5,6, 100k ohm resistor (brown-black-yellow-gold)
1 – R7, 2.2k ohm resistor, 1%, (red-red-red-brown)
1 – R8, 10k ohm resistor, 1%, (brown-black-orange-brown)

Refer to the graphic below for parts placement.



All the components mount of the top side of the board. There are two #2 clearance holes for mounting.

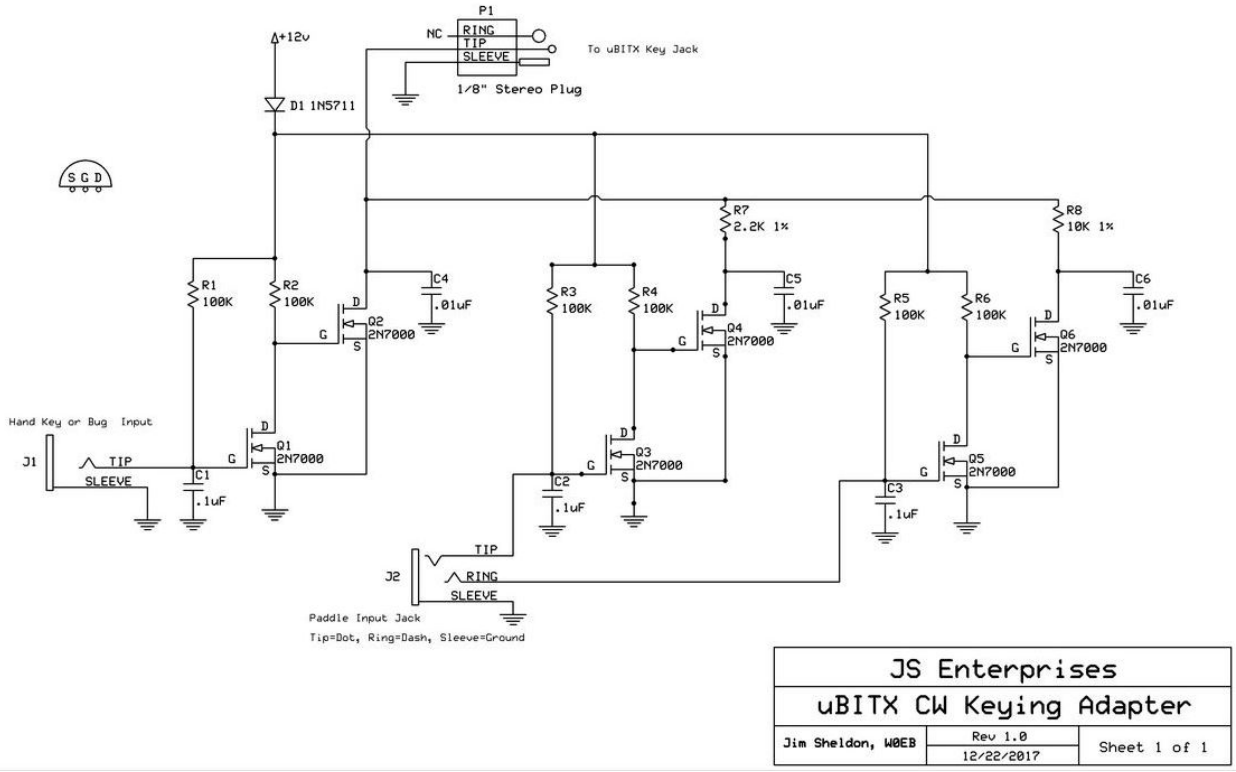
Mount D1 as shown below, with the cathode band down on the pad with the silkscreened ring.



All the resistors mount vertically, then the three .1uF mono capacitors, and three .01uF capacitors.

When installing the 2N7000 FET transistors, observe the silkscreen outline. If you choose to use BS-170 FET's the Source and Drain are reversed from the outline and the transistors need to be rotated 180º. Mount the board conveniently, and avoid long lead lengths. It can be mounted using the two #2 holes or it is so lightweight you can clip the leads short on the backside and use some foam two-sided tape to the inside of the chassis. Jim says the circuit works well with 5-12V input.

Thanks to Jim for his design to clean up the straight key issues. According to Jim, a hand key works 100 percent better and you can even use a bug with the uBITX through the hand key stage of the adapter. The internal keyer itself is only slightly helped by using the FET switches. Shown below is a copy of Jim Sheldon's (W0EB) schematic as it appeared in the user group.



Notes: