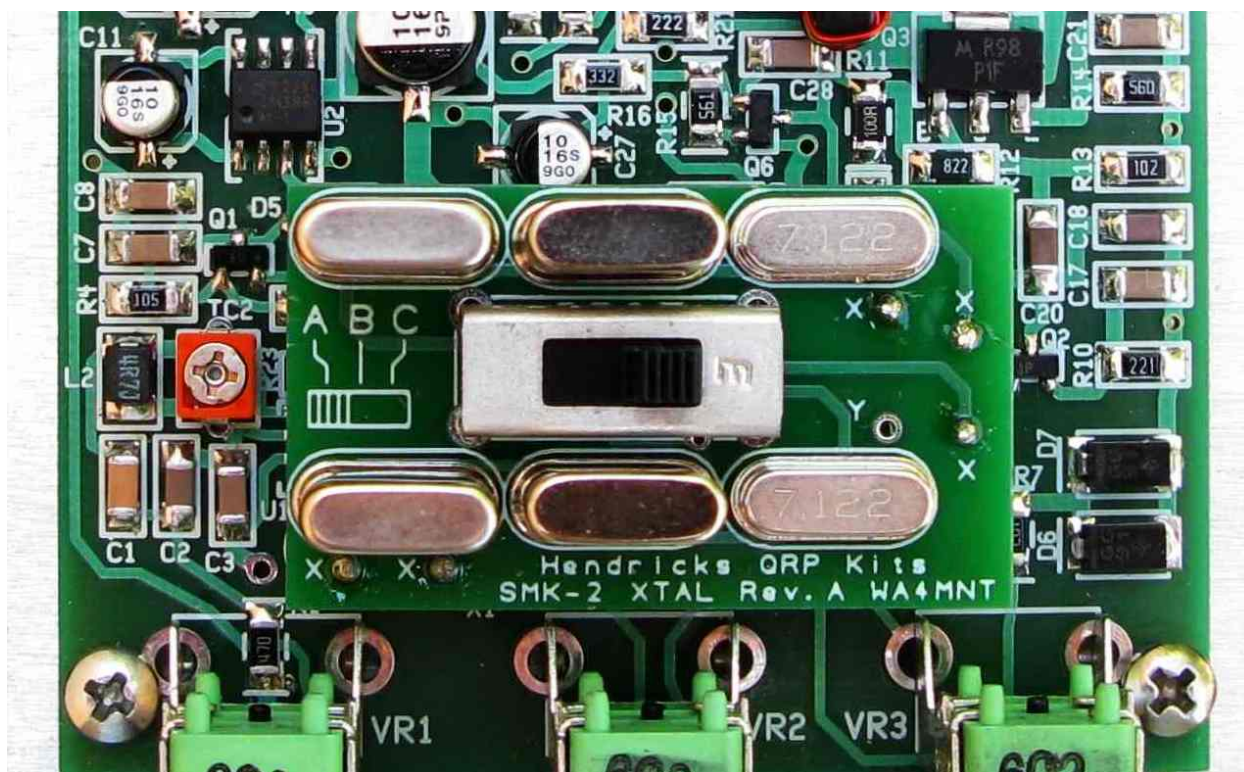


Hendricks SMK-2 Optional Switched Crystal Board Assembly

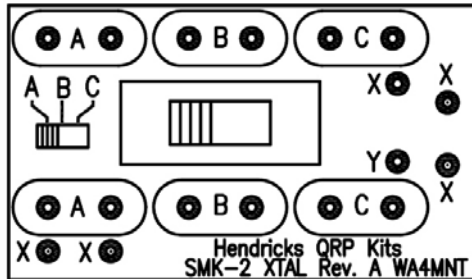


First off, check to see if the parts match the parts list...

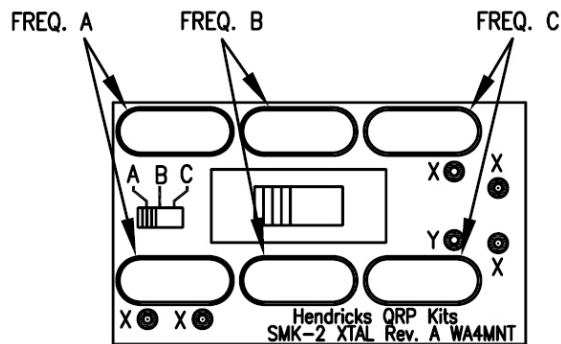
- 2 – 7035 kHz crystals
- 1 – DP3T slide switch
- 1 – 8" - 20AWG tinned wire
- 1 – PCB

Please read all the instructions before starting. This multi-crystal board should be added to your SMK-2 main board only after you have completed and assembly and tested the main board. We include one new frequency, and provide space for three total frequencies. This board will work with one, two, or three sets of crystals.

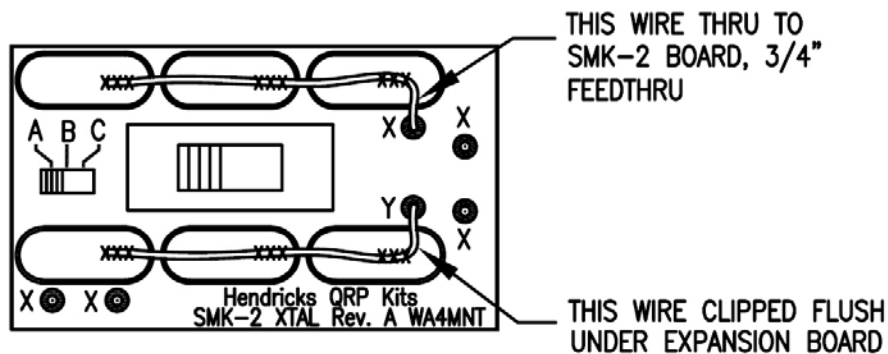
- Install the DP3T switch on the side of the PCB with the silk screening.



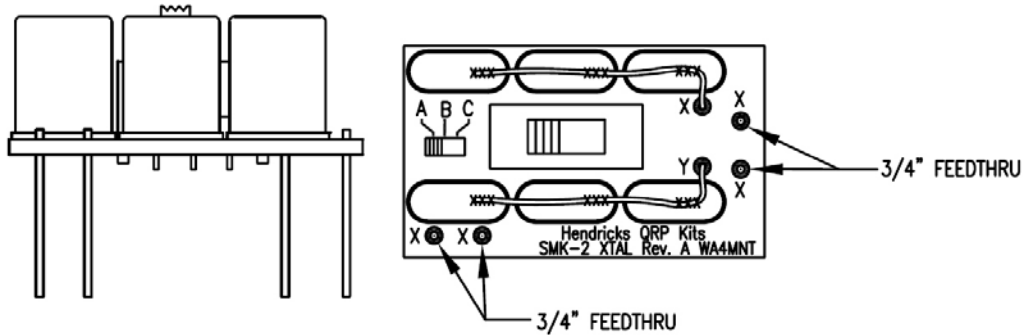
- Decide which frequency you want to be designated as “A”, “B”, and “C” and solder the crystals on the same side as the switch.



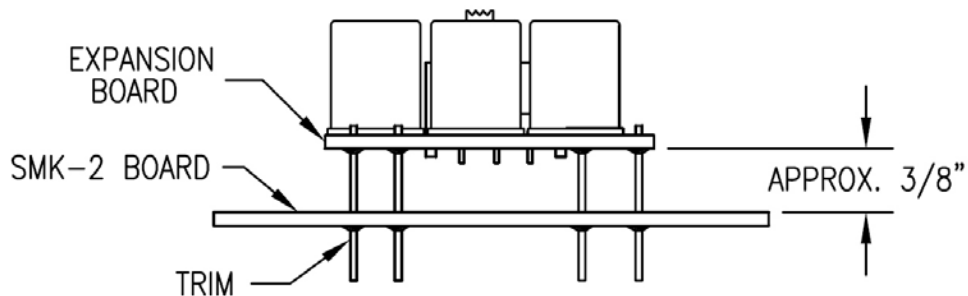
- It is common practice to tie all the crystal cases to ground. **Note: You may choose not to do this operation if you plan on changing crystals frequently, or use SIP sockets in one or more of the crystal locations.** Do not linger soldering the tinned wire to the crystal cases. The crystals are fairly tolerant, but they can be damaged by high prolonged heat. Cut two 3” pieces of the supplied tinned wire. After soldering the wires to the top of the crystals, the wire passing through the “Y” hole can be trimmed off flush on the far side, But the “X” wire will need to extend approximately 3/4” below the board for connecting to the main SMK-2 board.



- Next you need to cut four pieces of the tinned wire, 3/4" long and solder them to the "X" holes on the backside of the board, as shown below. These leads will connect the expansion board to the X1 and X2 crystal positions of the main board. There will be a total of five wires extending to the SMK-2 main board, four go to the crystal thru holes and one to a ground thru hole



- Mounting of the expansion board to the main SMK-2 board is accomplished by aligning the five 3/4" long leads of the expansion board, passing through pads of the existing two crystal positions and ground connection. Space the two boards apart approximately 3/8" so that the expansion board clears C27, and solder the interconnecting leads to the back side of the SMK-2 board, and trim flush.



- Mount the SMK-2 and expansion board assembly into the chassis and complete the I/O connections.

smk2_xtal_assy_050412.pdf