**Notes on ordering the printed circuit board for the “TR switch**” **revised 8-7-18**

* Note that my web host (or most hosts) doesn’t allow executable printed circuit files to be shown anywhere (even embedded in a file). So, for now send me an email to KU6X@ARRL.net and I’ll forward the ExpressPCB**Plus** file to you.
* **First download the ExpressPCBPlus program from their site shown on the main page.**
* **You can order the boards when you open the “.RRB” file I sent you. This file has two of the TRS boards and two small 12Volt “power tap” boards.( I didn’t want to waste the otherwise unused board area).**
* **Order the “miniboards plus” option. It’s about $77 for three boards which when cut will give you 6 boards total. You get plated through-holes, silkscreen and solder mask layers on both sides. They’re high quality boards.**

I have not investigated other PCB houses to see if these can be made more inexpensively. I’d be interested in your experience .

I believe there’s a house that can work with ExpressPCB files, but they don’t do plated through-holes. This means that you should solder the top of leads going to both the top and bottom layers. These leads tie the top and bottom ground layers together for best RF performance.

73, John

**Notes.**

* The circuit board files are now laid out with EPCB **Plus** program and they have an “.rrb” extension.
* **If you’re running Windows 10 you may have to open the program as the “administrator” before you can actually order boards. I had a problem placing an order until I did that with my Windows 10 machine.**
* There’s a trace which connects the center pin of the SO239 to C1. This shows up as an error (for each board on the panel). Just ignore that message.

**8-6-18 Alternate PCB layout with Gerber files**

**Dick K9VIB has done two redesigns of the PCB**

**Here is his brief description:**

**“ The through hole design uses the same components and BOM as John's design.  There are provisions to use some alternative components that are entirely optional.  The PCB is shorter.  If you download the zipped doc file there is a description of the alternates in the read-me file and complete set of design files as well.”**

 **There’s more info on his site:** <http://www.k9ivb.net/KU6X%20TRS/> **Dick has info on how this will allow you to get the boards made at a lower cost.**