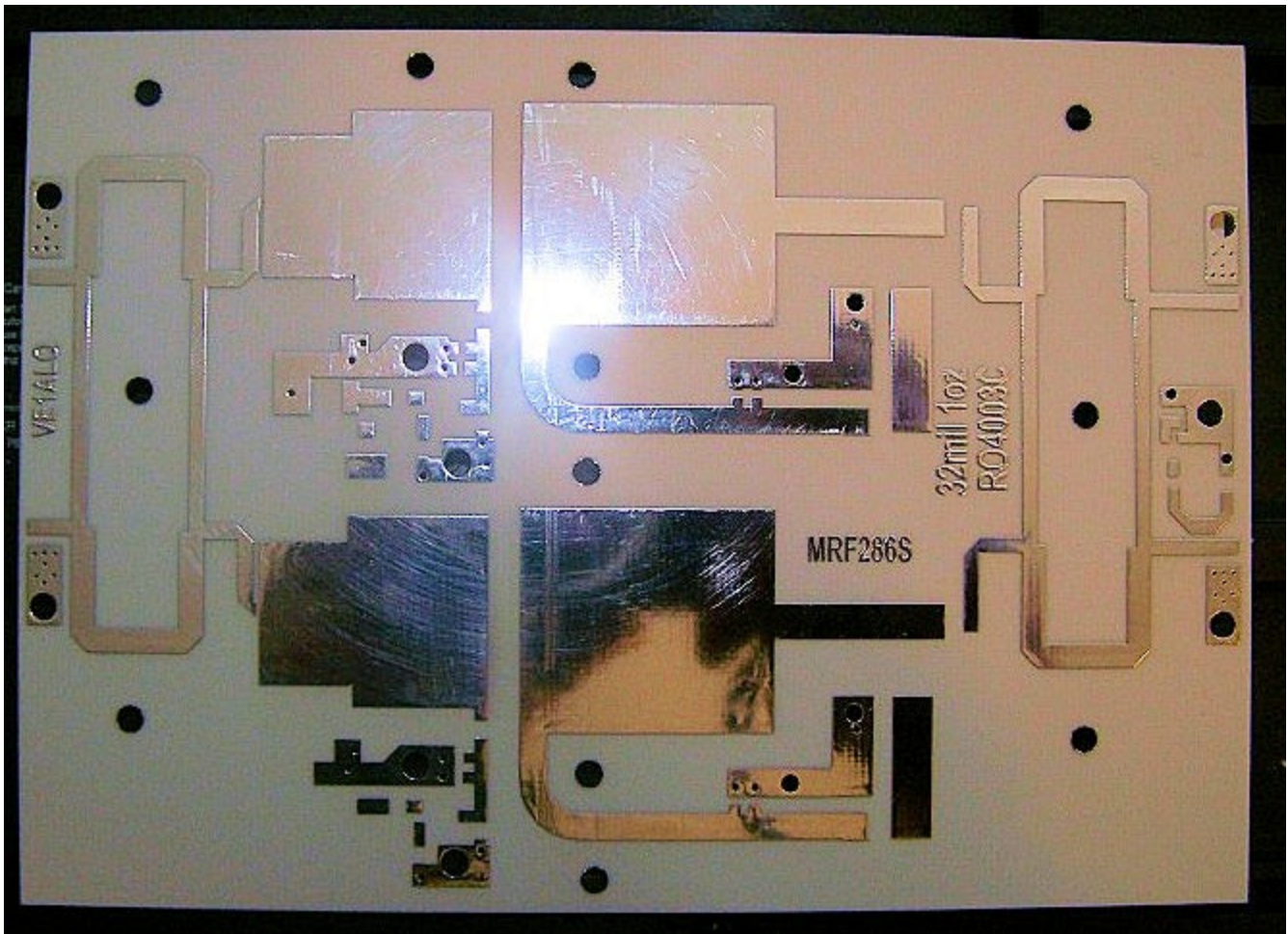


MRF286 Assembly Manual

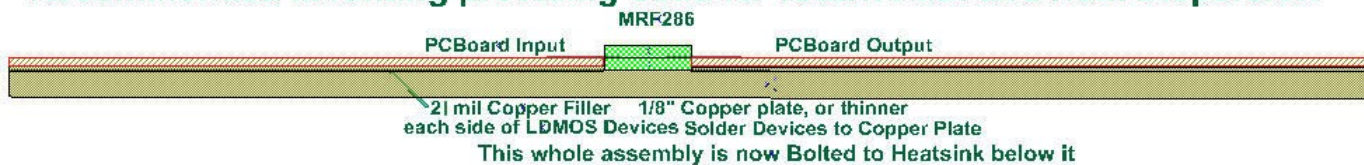
1/ The complete board as you would have received it.



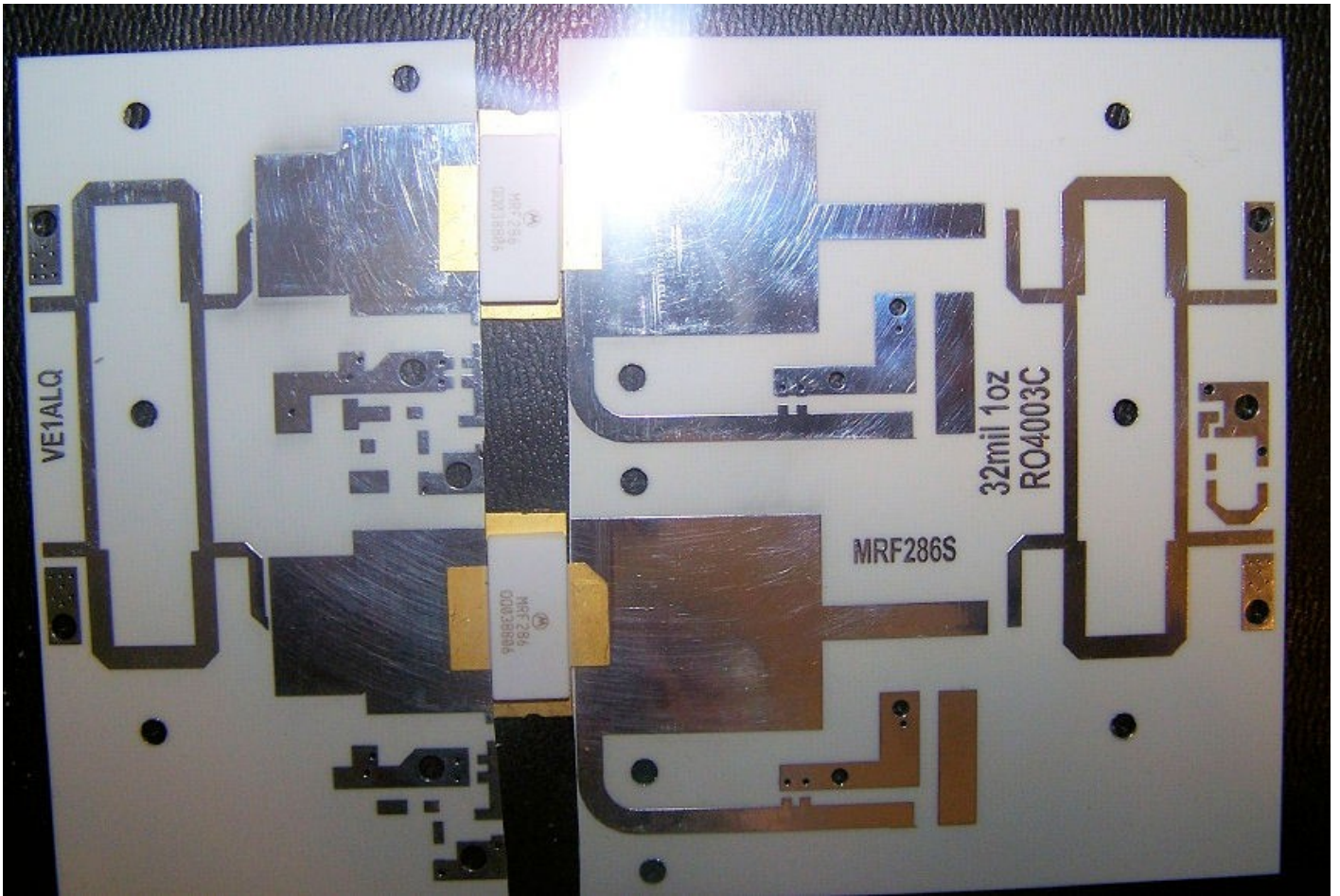
2/ Required Mounting configuration

I use 21 mil Copper as the spacer (filler) between PCB and Heat Spreader, and 62mil Copper as the Heat Spreader.

Recommended Mounting providing Solid RF return Path and Heat Dispersion



3/ Cutting the PCB to allow Installation of the MRF286 Device as shown below:

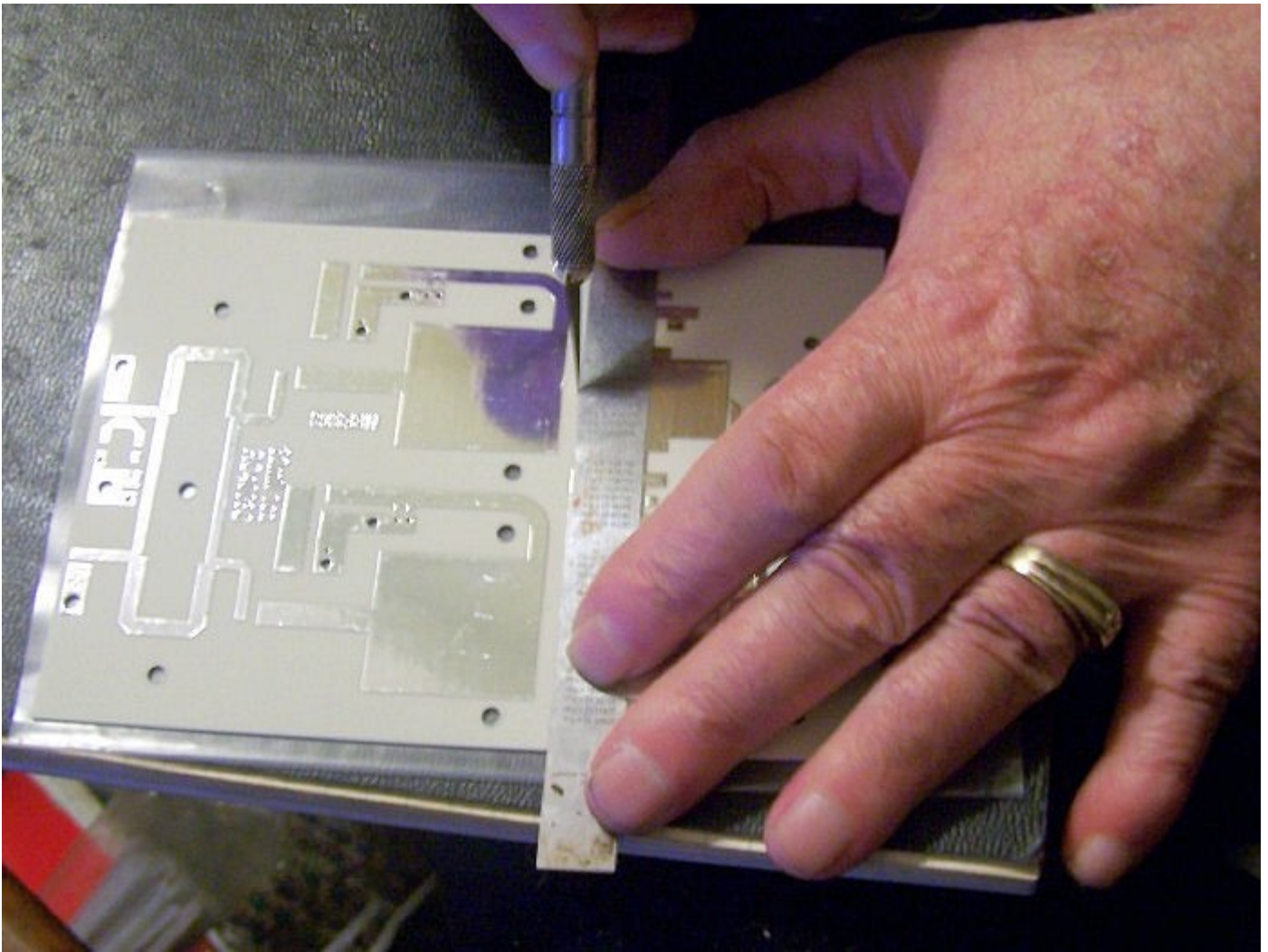


4/ I use a 6" (inch) SS Ruler to first Scribe a Line for Cutting as show below:

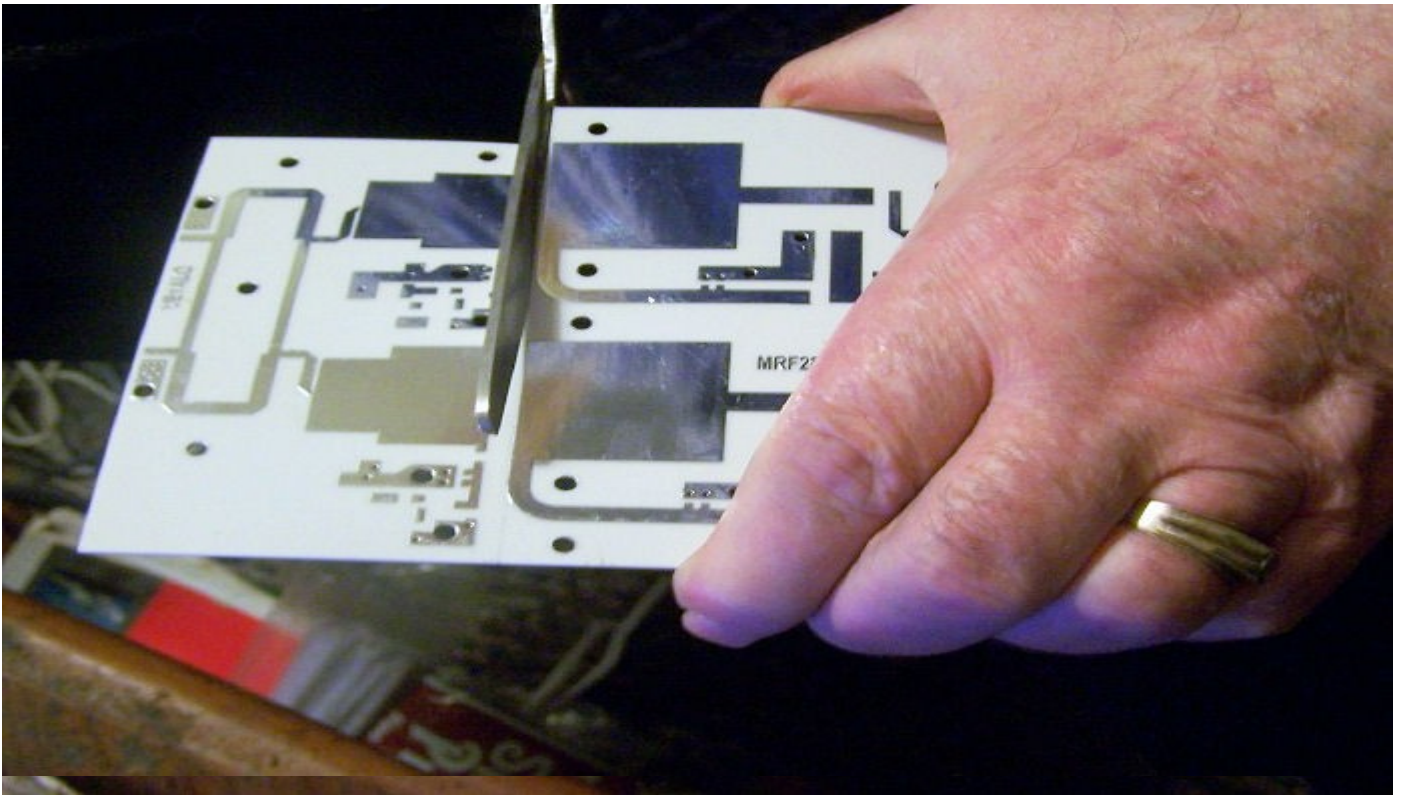


This is done both edges at the input & output Pad areas, make sure that the actual pads are not Scribed, I use the back edge of an #2 Exacto Blade & Handle, which is quite sharp but will not cut the copper Matching Pads if one should get to close. In fact I leave 1 to 2mil clearance from Copper Matching Pads.

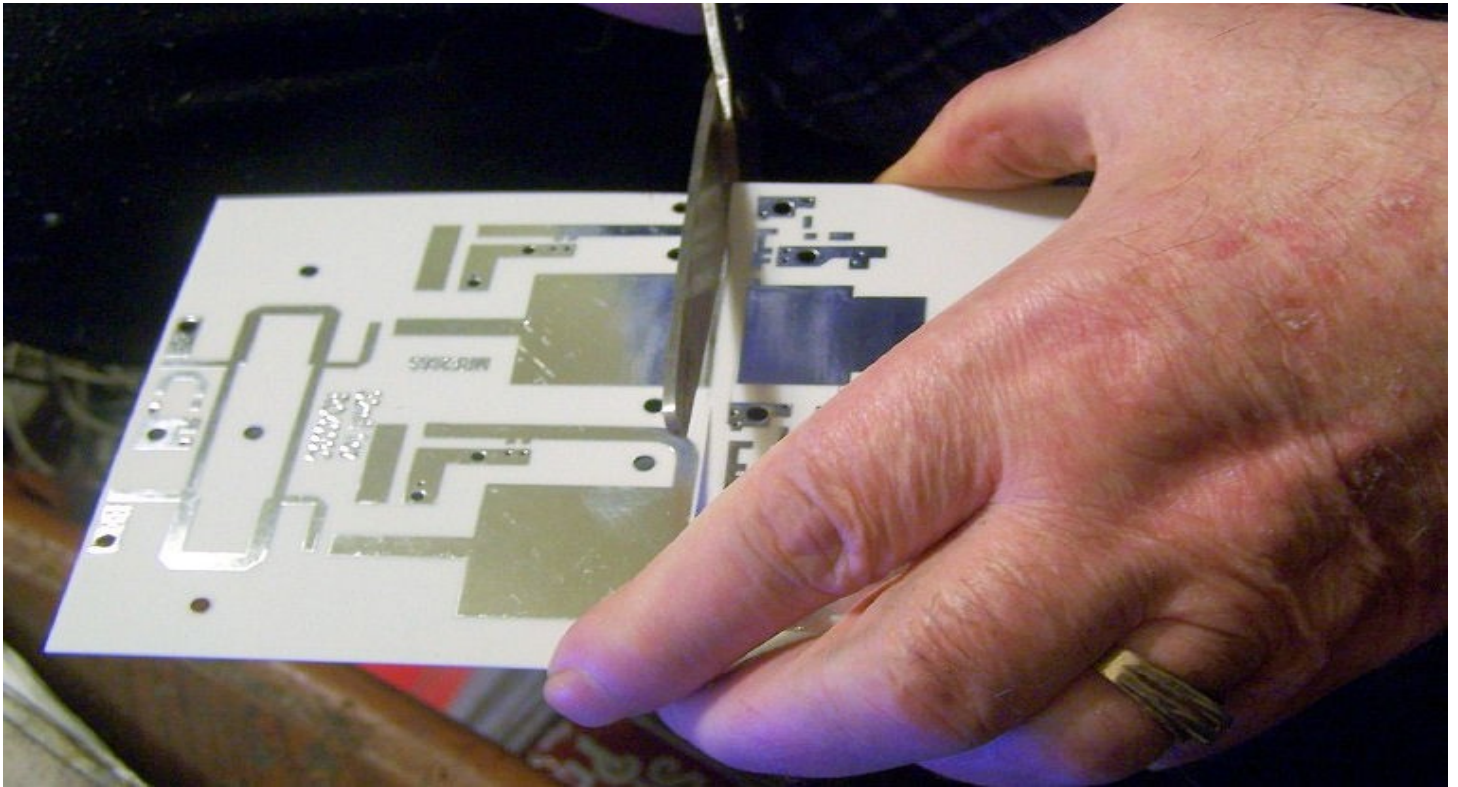
The SS Ruler MUST be Held very firm so as not to slip while Scribing the Cutting Lines. You can also use a Standard Glass Cutter rather than Scissors if you wish.



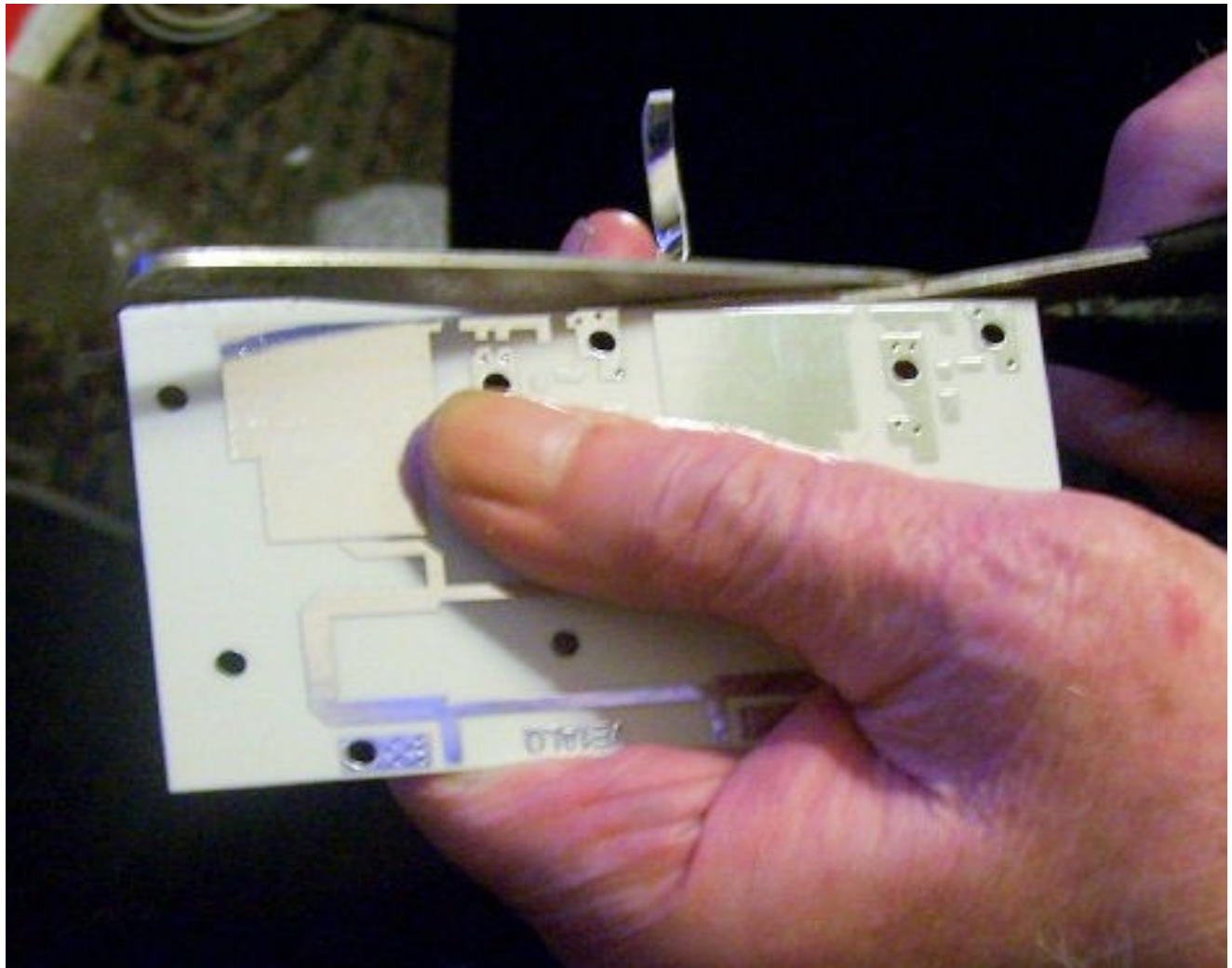
5/ Now for the actual PCB, here I use a Pair of heavy cloth Cutting Scissors, see below.



Change sides and cut toward the PCB Center.



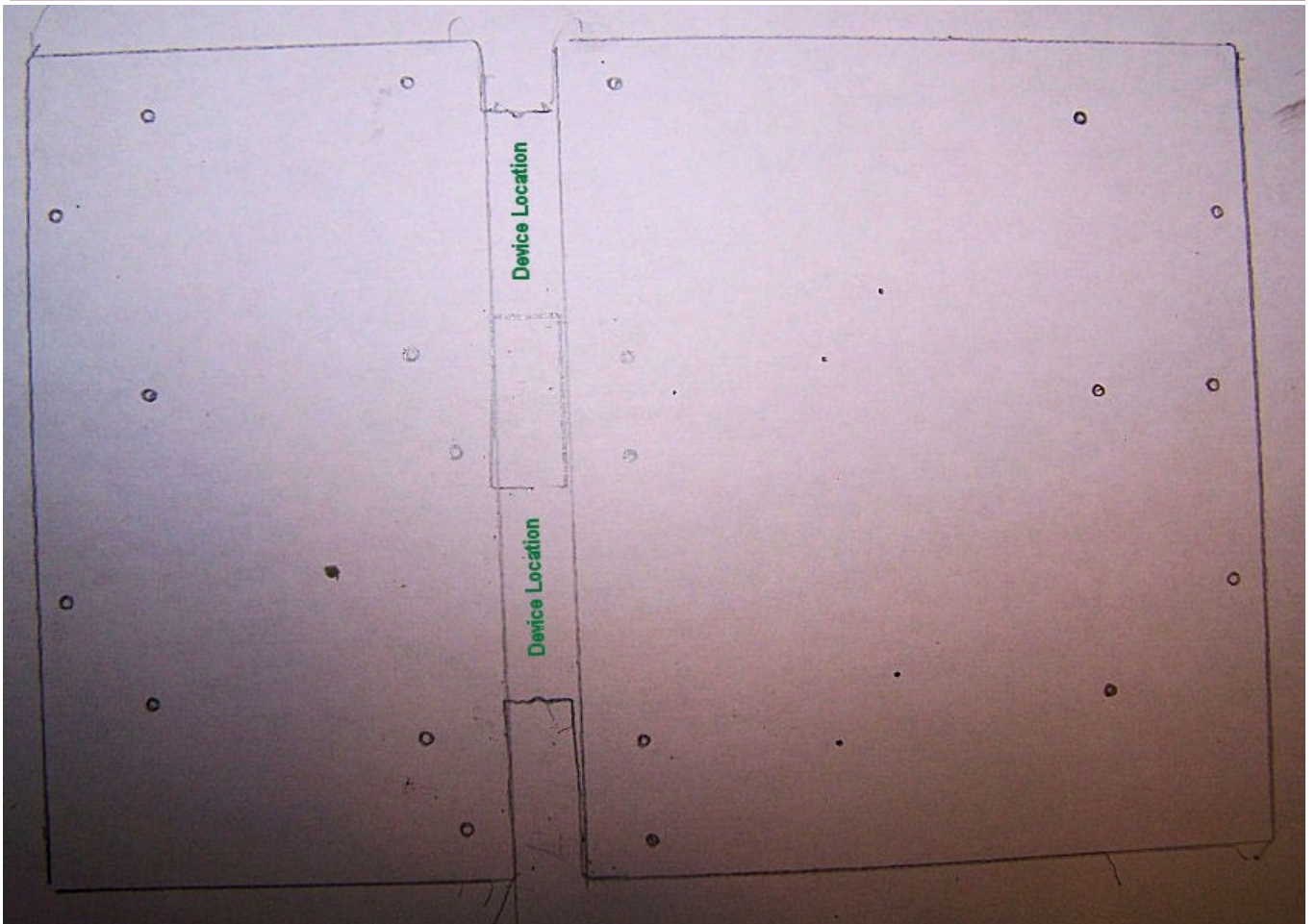
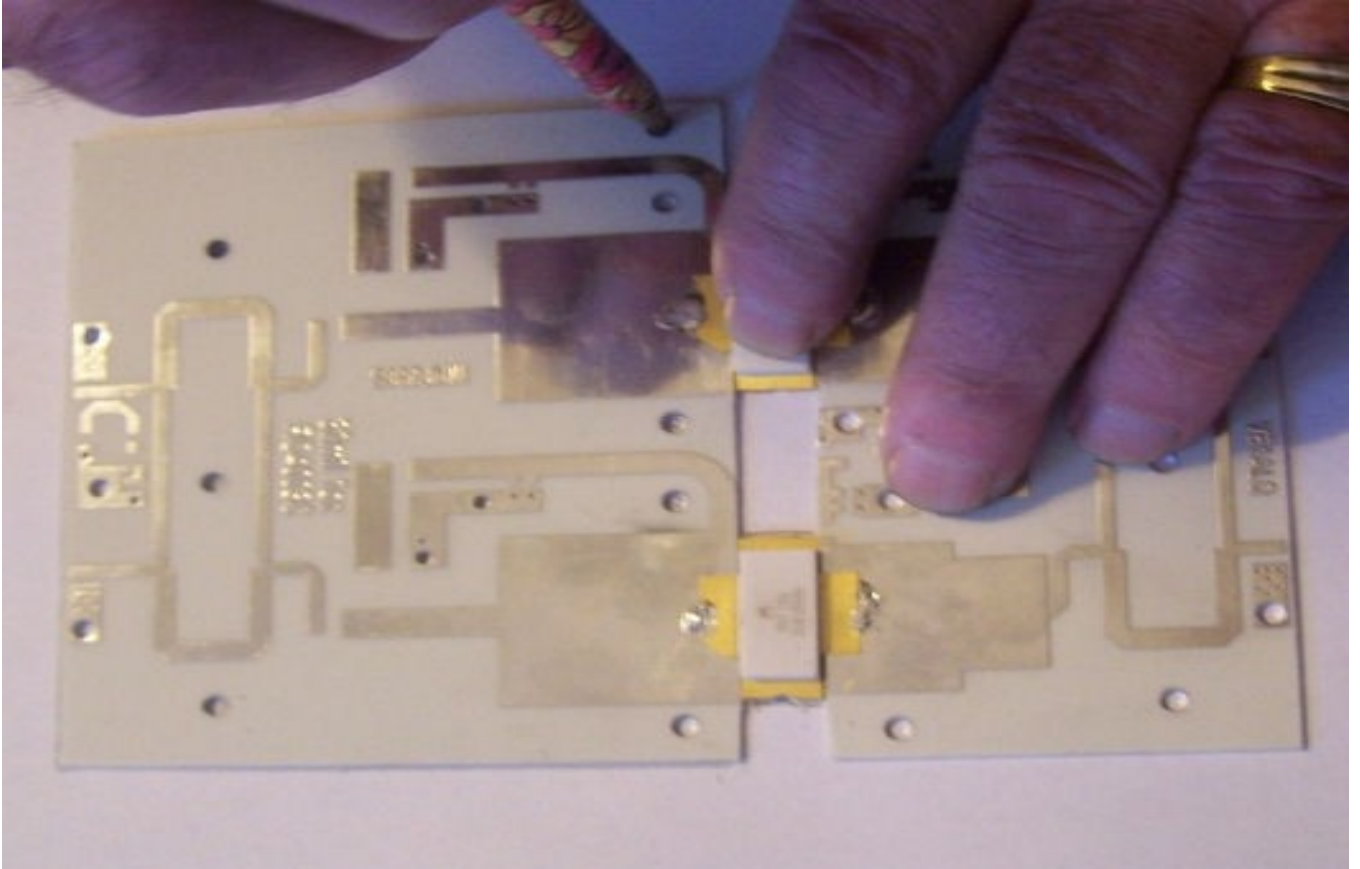
6/ Now cut the Dead Section of PCB out to separate the Input & Output Half's , see below



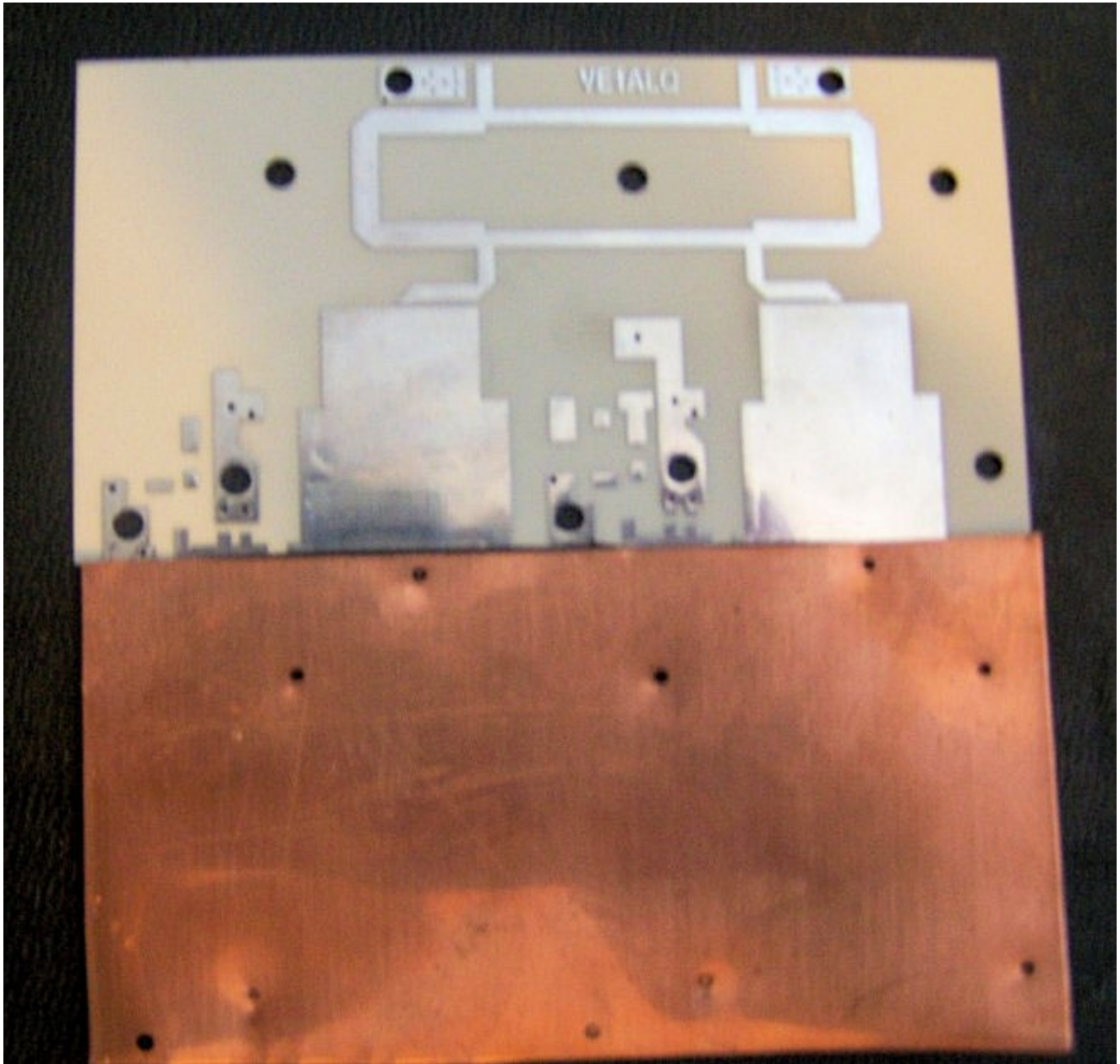
This is now the Input Half of the Amplifier Board

6/ Now make a Template to stamp and drill from, see below, first align both the input and output half's and tack Solder the two (2) devices into position, then align on a piece of

white Printer paper and mark out the Drill Locations. This is really my Second Choice.



7/ Now make input and output 21mil Spacer using the Input and Output amplifier sections.



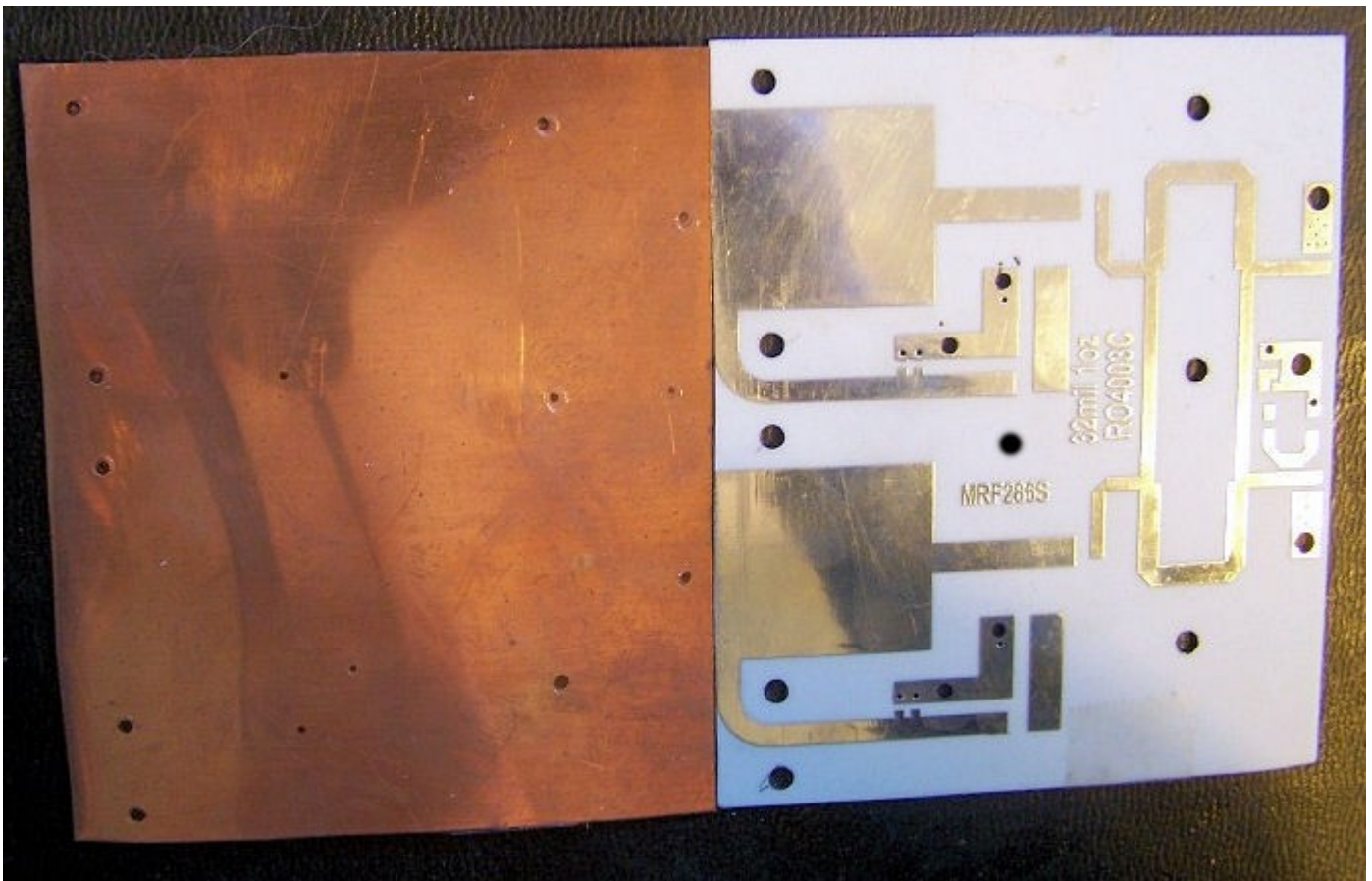
These were cut using the same pair of Scissors used to cut the PCB and this one has been Center Punched (not drilled yet) for hole location and is NOT dented as bad as Camera shows. There are also 4 Holes that do NOT need drilling, these are the 2 at very top of Input board and the lower 2 nearest the Copper spacer on the PCB, this will be shown better later.

The Output Spacer is shown below.

Here again there are 6 Holes that need not be Drilled. The 4 holes at each of the *right angle* Pads and the 2 at Via Pads far left on the PCB.

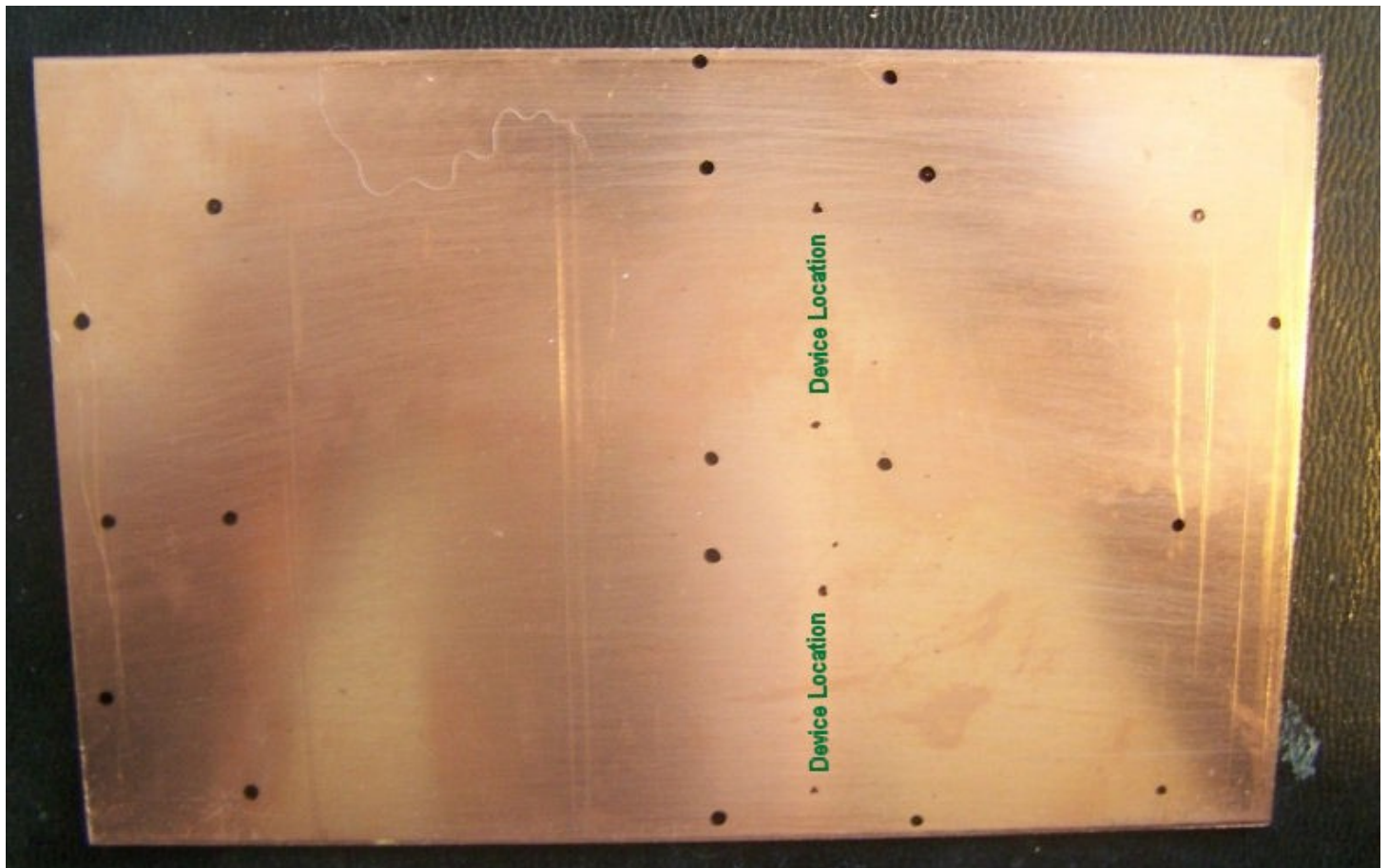
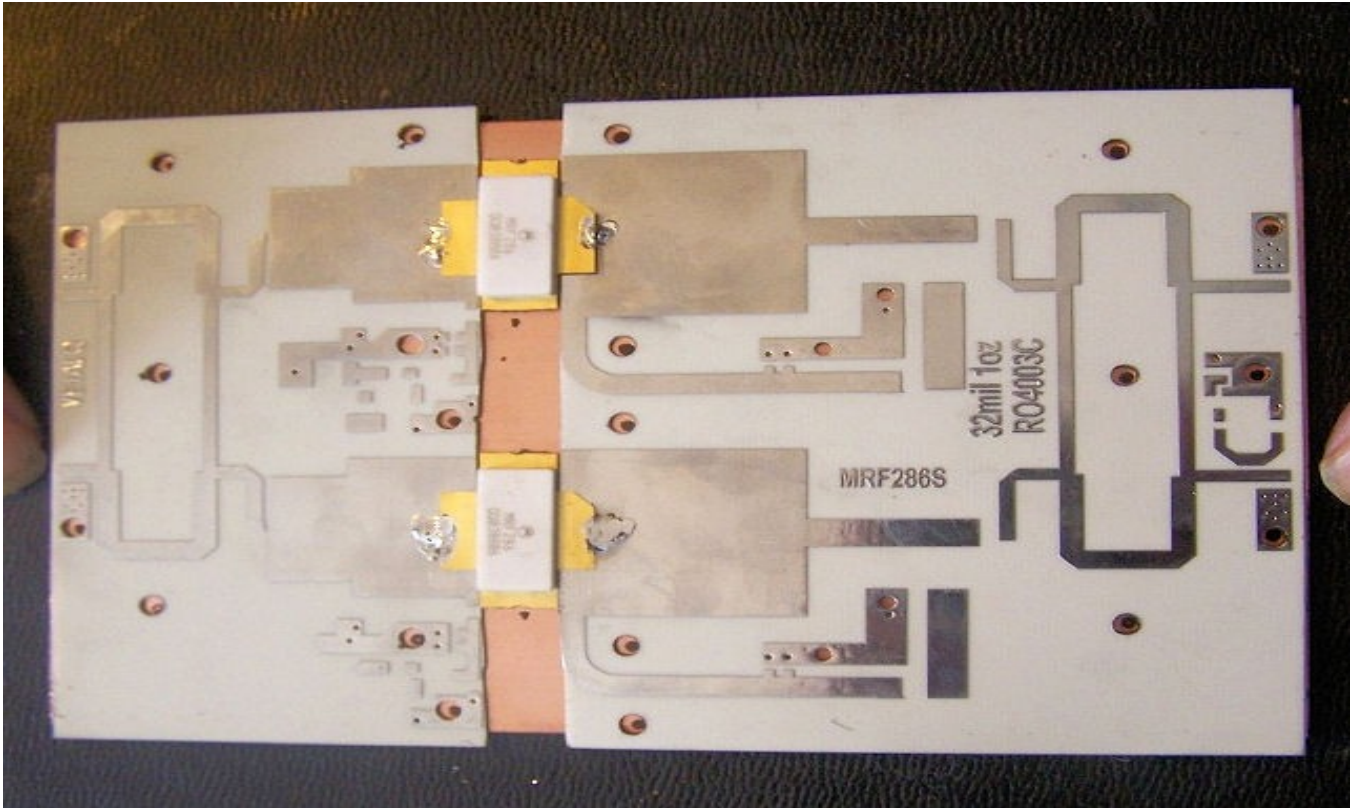
There is One (1) Hole NOT there until you Drill it, and that is dead center the PCB above above the MRF286S Print. These will be apparent when an assembled Board is completed.

A number of these extra Holes were made in the Artwork for the purpose of using it for Positive Sense Photo HB PCB's, which is a long slow process



8/ Now we will Mark the 62mil Heat Spreader for Drilling, NOTE that my Heat Spreader is a bit

narrower than it could have been, but was purchased for another project and is very adequate for this project.



Full Length Heat Spreader and ready to Solder devices to, which will be a continuation of this Package.

**NOTE: All Drilled Holes show to this point MUST allow Machine Screw Clearance. The only holes drilled for tapping will be in the Heat Sink itself. If you have any question to this point please contact me.
Mail to: ve1alq@nbnet.nb.ca**

Regards & Thanks for Now, Darrell