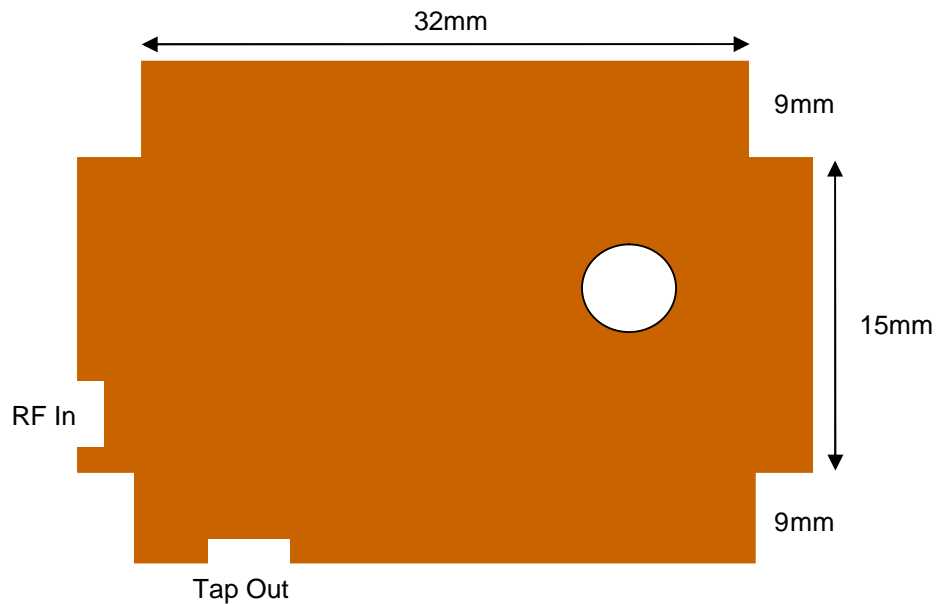


Power Meter Load Resistor Top Shield

Form a copper RF shield for the load resistor. To do this cut out a rectangular piece of copper foil 25 x 42 mm then cut out 5mm at each corner as shown below. Make additional cut-outs to allow signal paths to the RF input connector and the tap out to the detector. Form a box that is 15mm long x 32mm wide x 9mm high as shown in the template below. After the shield is formed place it over the load resistor to make sure the cut-outs allow enough room for the tracks from the SMA connector and the tap components out to the detector. With the shield held in place, mark a hole for the resistor mounting screw. Hold the shield in place, turn the board over and use a mechanical pencil with a long lead to poke through the bottom resistor hole and mark the top shield hole location. Make the hole big enough so that the head of the 3mm or 4:40 mounting screw is able to pass through the opening.



Solder the shield in place to the top PCB ground plane. It's not necessary to completely solder the shield, just tack it in place to make it easier to remove if needed in future. Solder both sides of the RF In and Tap Out openings as well as the corners and one additional location about half way along each side.