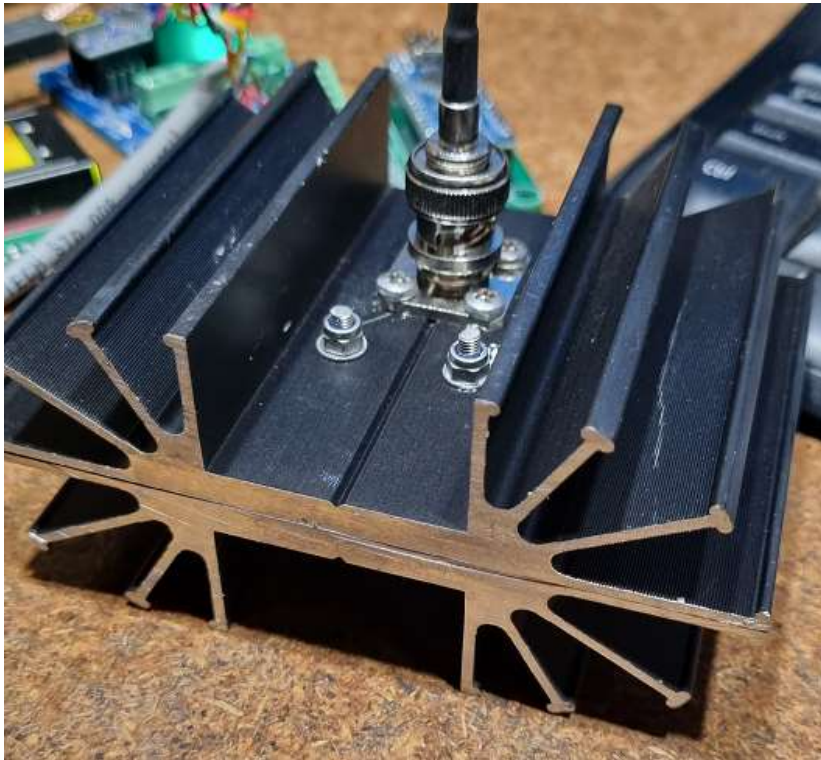


100W Dummy Load Build — By Simon VK2KU

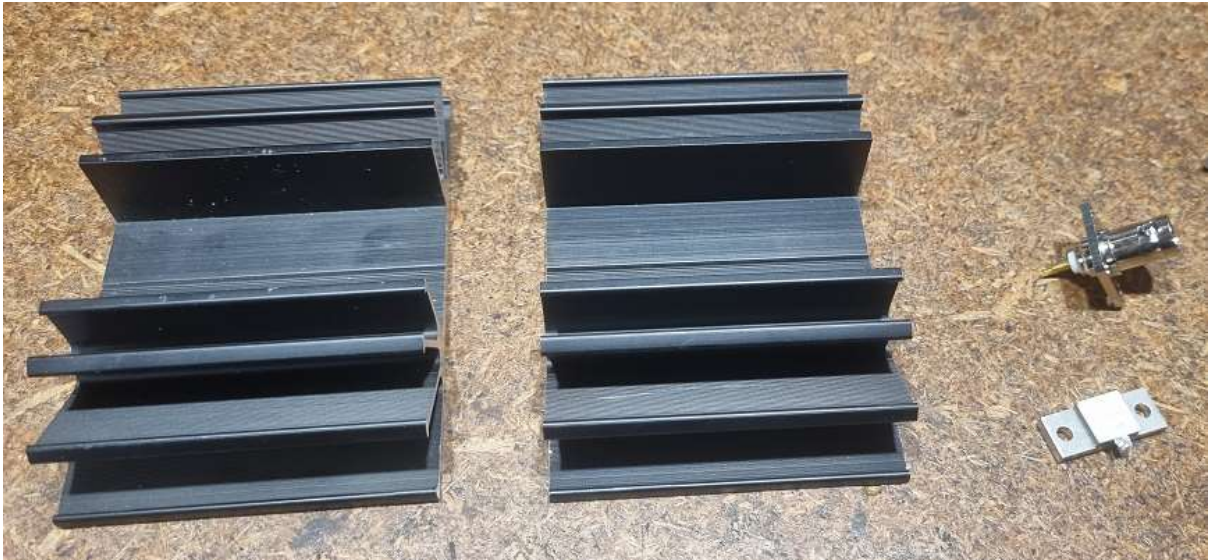


So, after a while of borrowing Keith's (VK2KQB) dummy load, I decided it was time make my own.... This project took about 1.5 hours.

Pretty simple really. 5 components make this project.

- Heatsinks: Altronics - \$13.50 x 2 (H0522) **72mm x 105mm**
- 250W RF Resistor: Ebay - \$7.50
- Bulkhead Coax connector: From the shed
- 3mm Screws: From the shed
- Heatsink compound: Altronics – \$3.95 (H1600A)





Tools required

- Drill bits
- Drill (Drill press is suggested – I don't have one)
- Screw drivers
- Small sockets
- Pliers
- Soldering Iron + Solder

First of started by marking and drilling the mount holes for the resistor.



Next to mark and drill the holes for the bulkhead coax connector. I used a BNC here. Make the center pin relatively close to the tab on the resistor. I made this one 15mm apart.



Next, clamp and drill all holes through the second heatsink, sandwiching these together.

I used 3mm screws to hold all this together. The screws go right through both heatsinks holding them all together.

The Coax connector goes on the opposite side to the RF resistor, so that the Tab on the resistor can be connected to the center conductor of the Coax connector.

Use of a bit of heatsink compound between the heatsinks and under the RF resistor, will ensure good heat transfer under higher powers.



Once all the equipment is bolted together you can then short piece of building wire between the Resistor and the Coax connector.



Now the dummy load is complete and ready for use.

Any heatsink can be used. You do not have to go with the sandwiching idea, however using heatsink compound beneath the resistor is advised.

I have run this unit at 100W for quite a while testing SWR bridges in the shed. The RF resistor and heatsink seem to be dissipating the heat quite well.

