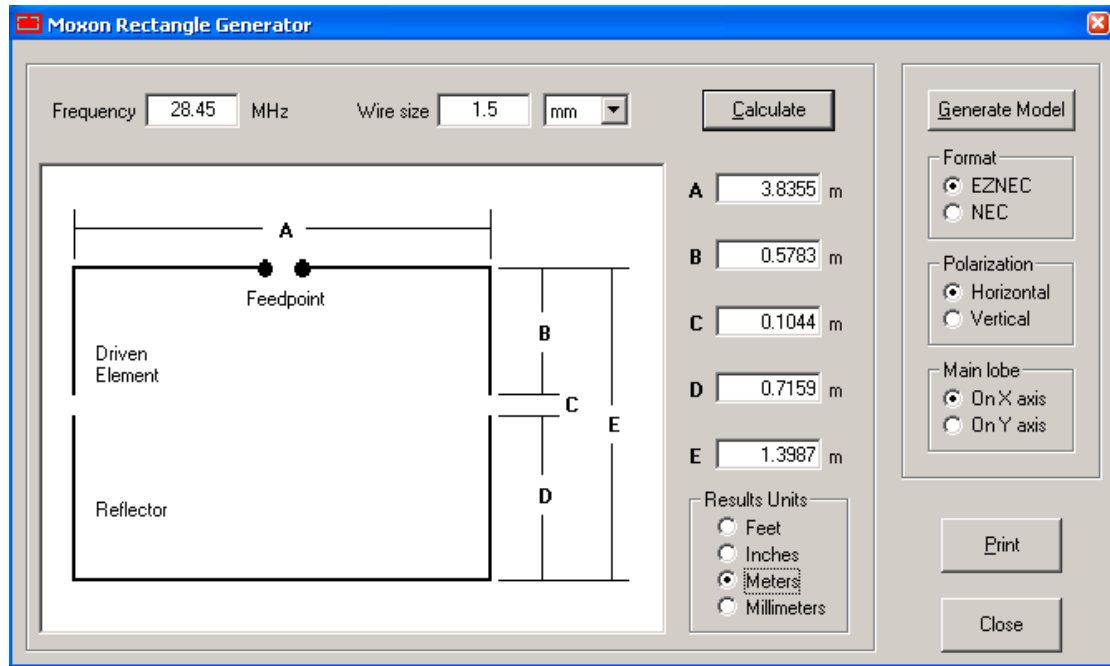


10m 2-element Squid Pole Beam

Go to this website:

<http://www.moxonantennaproject.com/index.html>

On the Design tab, download the software (a very small program). Design your own Moxon beam. Here is the program output for my 10m beam, see how small it is: 3.84m x 1.4m, giving 3dB forward gain and 30dB+ front to back.



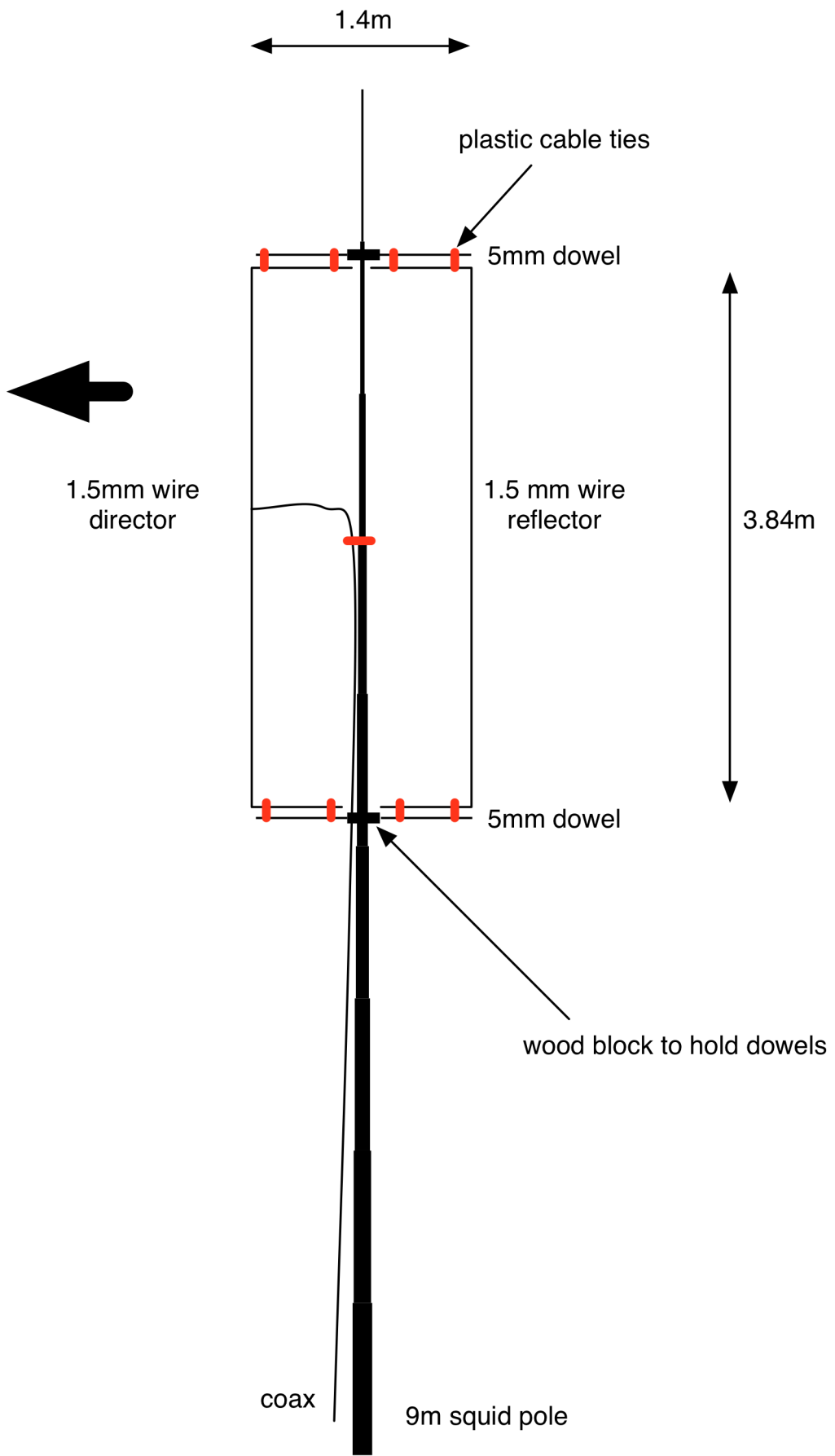
Note I rotated it from horizontal as shown to vertical, see my diagram below.

The dimensions are for bare or enamelled wire, if the wire is plastic covered, the dimensions will be too big.

I fitted my beam to a squid pole starting 1m from the top, the last one metre section is just to thin to hold the beam up. I fitted small wooden blocks to hold dowel spreaders. The top block is drilled to slide down the squid pole, the bottom block is clamped on with a TV mast U-bolt.

The wire is held to the dowel spreaders by plastic cable ties. The coax is fixed straight to the directors with no balun, I used plastic connection block. The design software ensures a 50 ohm feed point, and it is right, my SWR is flat at the design frequency.

Here is a diagram of my Moxon beam:

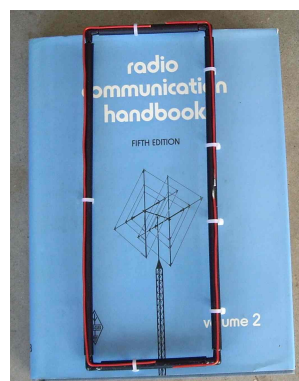


Here is a photograph of mine in my front yard. I fit the bottom of the squid pole into a \$20 Bunnings 'ground screw', wedged with a bit of wood to keep the pole vertical. The bottom of the beam is almost a half wave above ground (4 and a bit m).



This is THE BEST wood & wire beam I have ever built for ease, cheapness & quickness to build, as well as being spot on for SWR. The squid pole has no problem holding it up unguyed (on a calm day).

I have built a 70cm version for our repeater (use the software to see the size! I built it tied to thin plastic rigid irrigation pipe) and also a 2m version. Both worked perfectly first time and showed good gain and excellent front to back ratio. Here is the 70cm one shown on a book for scale. The feed point is at the right.



See the website for lots of other ways of making Moxon beams, and of course you can mount them horizontally like conventional beams.

Why not try one (or two)? How about a 6m version? Can the skilled woodworkers/metalworkers in our club make a neater better version?