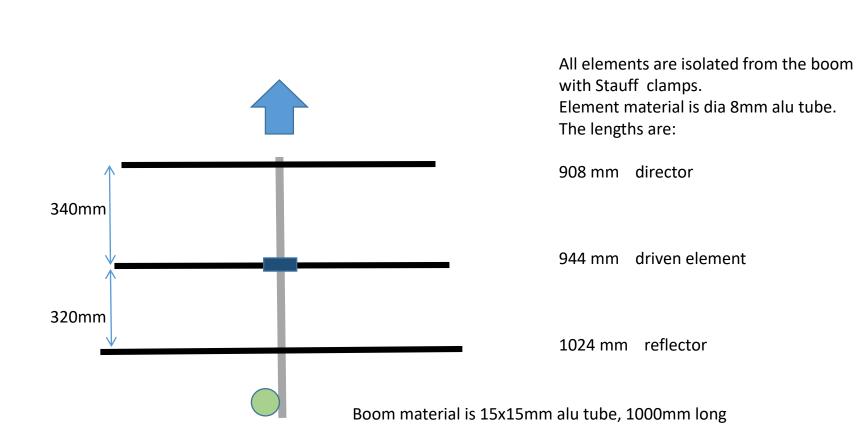
3-el Yagi for 2m band

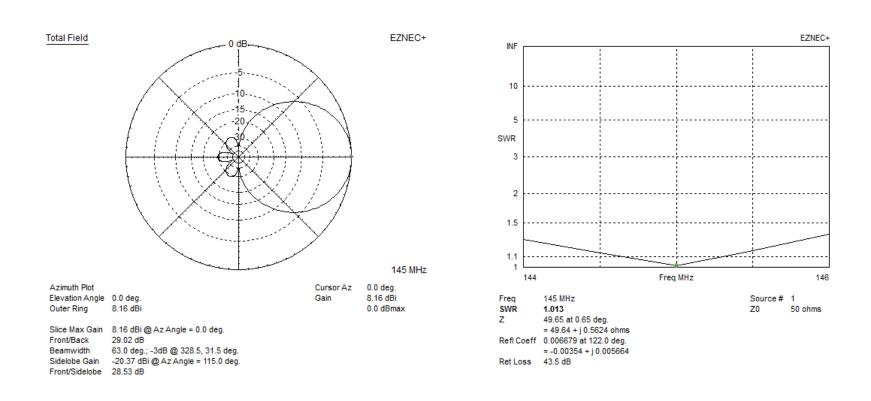
This antenna is good for portable use. It can also be used to extend the range of hand held radios. For a new ham this can be an introduction to Yagi antennas.

V1.2

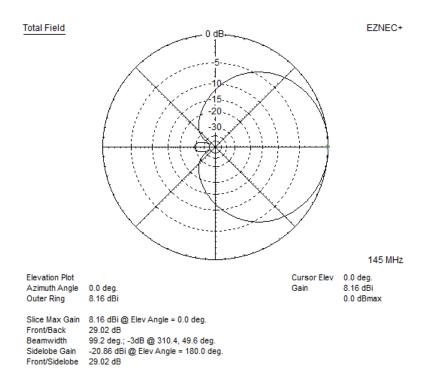


Dimensions

Horizontal pattern and SWR



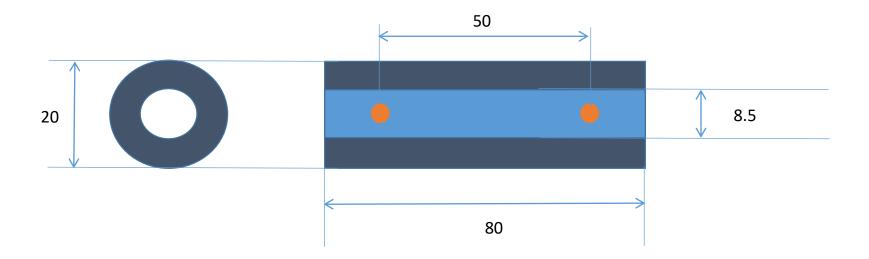
Vertical pattern



Part list

- Reflector: dia 8mm alu tube 1024mm long
- Director: dia 8mm alu tube 908mm long
- Driven: 2 pcs dia 8mm alu tube 462mm long
- Boom: Square alu tube 15x15x1mm 1000mm long
- POM plastic dia 20mm 80mm long
- 2 pcs Stauff clamp for dia 8mm
- 1 pc Stauff clamp for dia 20mm
- Allen screws: 4pcs M6x 40, 2pcs M6x 50 for Stauff clamps
- Sheet metal crews: 2pcs 3.5x16mm for cable connection
- Ferrite for current balun: |Z|>250 ohm
- Mast to boom clamp: as needed, installed behind the reflector

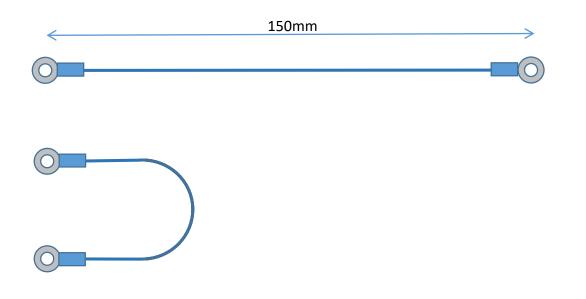
Center isolator of the driven element



Material is dia 20mm POM, 80mm long Drill dia 8.5mm hole through it, best done on a lathe 3.5mm holes 15mm from each end for cable screws

Drill dia 2mm holes to both driven element parts, 447 mm from the tip, for the cable screws

Hairpin



- Hairpin is made as follows:
 - Copper terminal lugs are soldered to both ends of dia 2mm copper wire.
 - Distance from terminal hole center to center is 150mm
 - The wire in rounded to U-form where distance between terminal centers is 50mm
 - Inductance of the hairpin is 67nH

3-el in vertical position





Director and Driven Element





Hairpin towards director, the front

