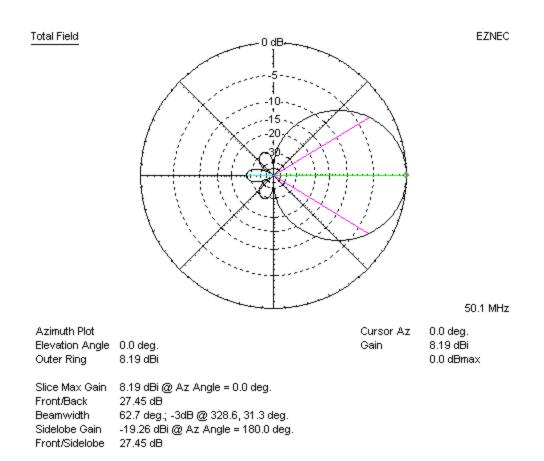


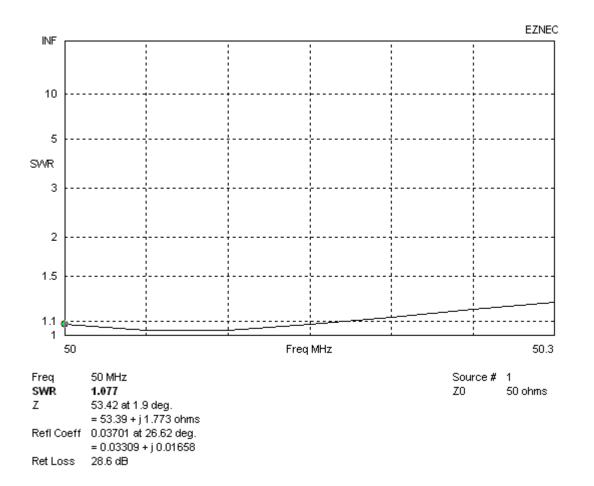
6m antenna, elements 15/12mm



Radiation pattern in free space



SWR



Dimensions (15/12mm version)

Weight 2.5kg with mast clamp

Dimensions from element center line in mm Isolated elements

7.12.2014

Frequency MHz	Element	Tube 15mm	Tube 12mm	Element Position	Hairpin L / nH	Fine tuning mm/100kHz
50.1	reflector total	500	1007 1507	0		3.0
	driven total	500	902 1402	900	146	
	director total	500	859 1359	1900		OLIATV

OH1TV

Boom parts

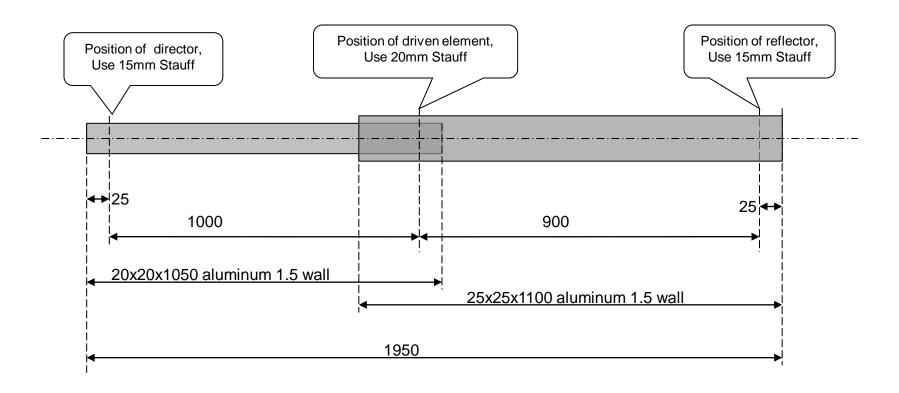
25x25x1100mm 20x20x1030mm

Total assembled length 1950mm

Longest part 1100mm

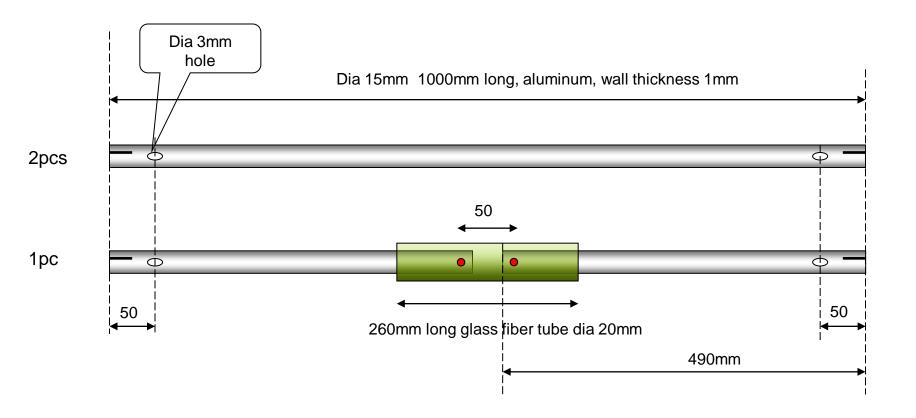
Boom (15/12mm version)

Stauff clamps are used for element mounting, one pair per element Two dia 6mm holes are drilled for each clamp.



Element center sections (15/12mm version)

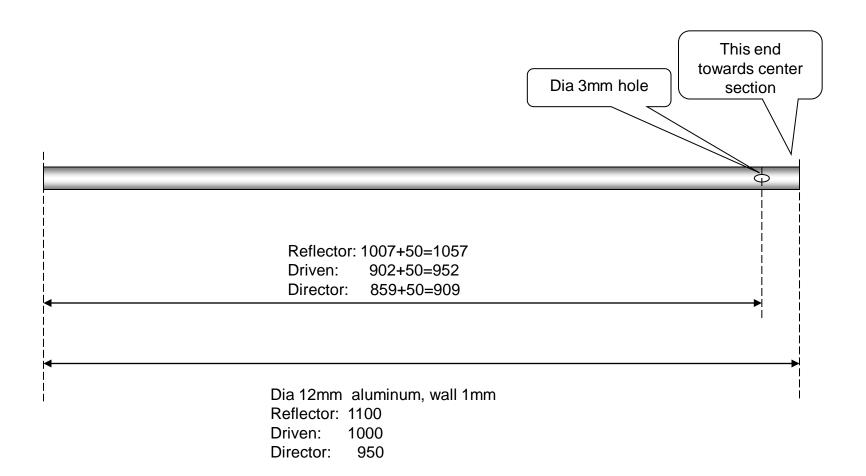
Reflector, driven element and director



Glass fiber tube is glued with epoxy, Araldit or similar

Second sections (15/12mm version)

2pcs of each



Dimensions (10/8mm version)

Weight 1.9kg with mast clamp

Lighter version, verified Isolated elements

4.12.2014

Frequency MHz	Element	Tube 12mm	Tube 8mm	Element Position	•	Fine tuning mm/100kHz
50.1	reflector total	550	975 1525	0		3.0
	driven total	550	875 1425	900	150	
	director total	550	833 1383	1900		

OH1TV

Boom parts

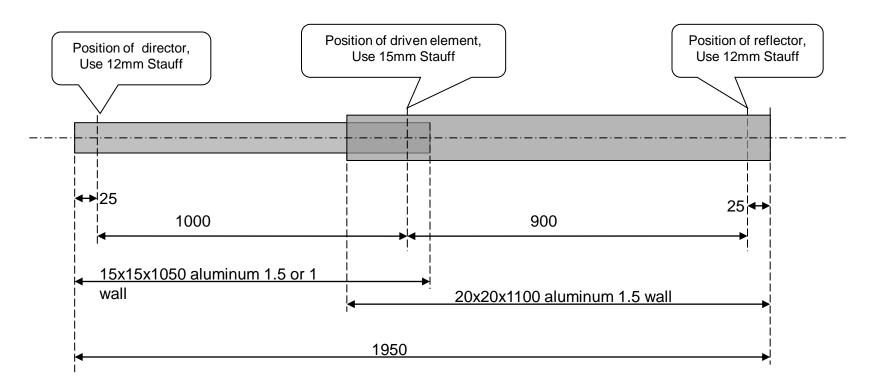
20x20x1100mm 15x15x1030mm

Total assembled length 1950mm

Longest part 1100mm

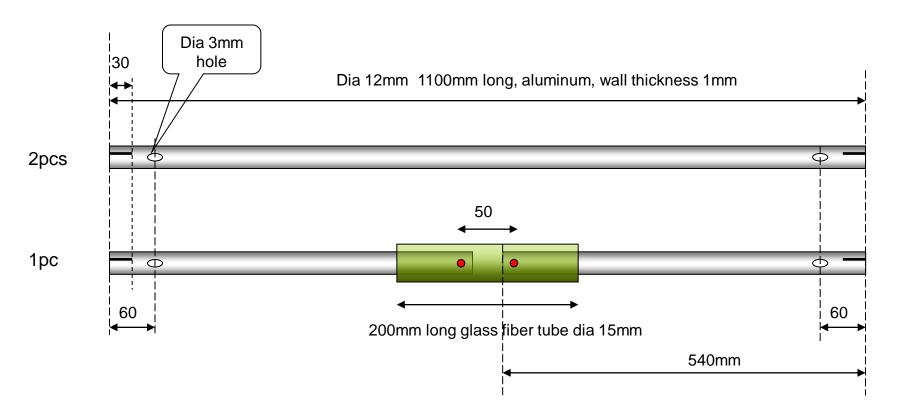
Boom (12/8mm version)

Stauff clamps are used for element mounting, one pair per element Two dia 6mm holes are drilled for each clamp.



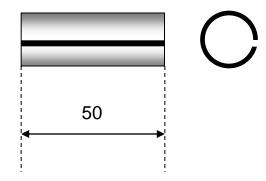
Element center sections (12/8mm version)

Reflector, driven element and director



Glass fiber tube is glued with epoxy, Araldit or similar

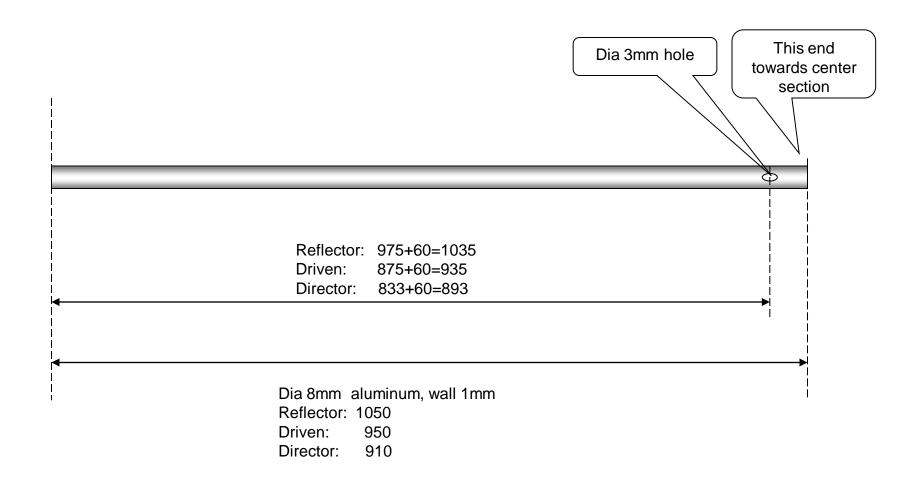
Fitting between 12 and 8mm tubes, 6pcs



Dia 10mm aluminum tube, 50mm long
Enlarge inside diameter to 9mm, best done on a lathe
Cut a slot on one side as in the picture
Push inside each end of 12mm center sections, align the slots
Dia 8mm end tube shall now fit nicely into center sections

Second sections (12/8mm version)

2pcs of each



Hairpin

- Copper terminal lugs are soldered to both ends of dia 2mm copper wire. Distance from terminal hole center to center is 260mm
- Rounded to circular form.
- Inductance is 153nH, good for this 6m antenna

End of center section



Angle grinder is used to cut about 2mm wide and 30mm long slot Hole for screw is dia 3mm

Center section / second section joint



Hose clamp is needed to make good contact between the parts. M3 screw or split pin alone is not enough on 50MHz. Clamps marked 11mm seem to work best for 12mm tube.

Element to boom



Screws are M6

Driven element and hairpin

