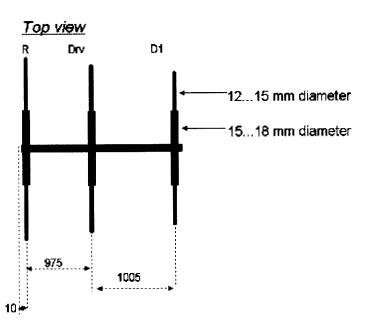
3 ELEMENT 50MHZ LONG YAGI, By ON1DHT



Element	Length	Prog.	Spacing
Reflector	2940		10
Dr iver	2870		985
Director 1	2660		1990

Boomlength = 2000 mm., thickness +- 20 mm. Aluminum tube diameters 12mm and 15mm. Used material: 3 alu tubes of 2 meter (15mm), 2 alu tubes of 2 meter (12mm)

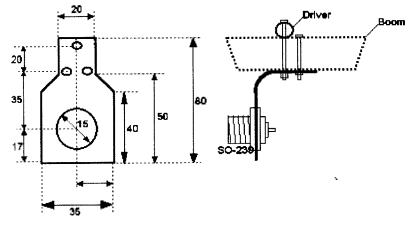
Specifications

0 43 - 6.27 484

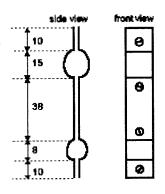
Froward gain = 6.1 dBd Front-to-Rear ratio = 25 dB SWR on 50.300 MHz = 1 SWR on 50.0 & 50.6 MHz= 1.2 Hor. plane pattern = 45° Ver. plane pattern = 55° Bandwidth = 2 MHz

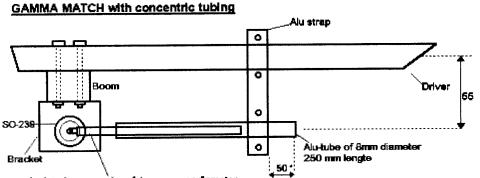
59.358 Rts

Bracket for SO-239 plug on boom



Aluminum Strap





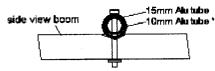
Isolated copper wire of 4mm copper diameter
Diameter with isolation of the wire is around 6 a 7 mm
Length of the wire 260 mm

Seal everything with silicon

*You need to tune for best SWR.

Move the strap and/or tube in or out

Example element connection to boom



Tip: Side a bit smaller all tube in to each element on the place where you connect the element to the boom. This to prevent from crunching the elements when screwing themfirmly to the boom.

73' Guy, ON1DHT http://users.skynet.be/onldht