



TRIO

DATA COM

Technical Note TN-37

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450-480 MHz YAGI Antenna Characteristics

Type (model #)	ANT450/9(AL/SS)	ANT450/14(AL/SS)
Number of Elements	6	15
Gain <u>Note 1</u>	9dBd	14dBd
Impedance	50 Ohm	50 Ohm
Boom Length	1.2m	2.1m
Wind Loading (160 kph)	8.7 kg	18.00 kg
Tail Connection	100mm N type female	100mm N type female
Mounting Arrangements	55mm max.U clamp (pas cad)	55mm max U clamp (pas cad)
Weight (incl. clamp)	0.7kg(A) 1.3kg(S)	1.3kg(A) 1.7kg(S)

Note 1 - Gain is referred to a standard dipole and varies with frequency as follows-

Available in 6000 series marine grade aluminium (AL) or high grade stainless steel (SS).

H plane Polar Characteristics (nominal and mounting dependant)

Type	TC-ANT/9(AL/SS)	TC-ANT14(AL/SS)
3dB beamwidth E plane	46 Degrees	30 Degrees
3dB beamwidth H plane	50 Degrees	41 Degrees
Front to back ratio	-17dBr	-17dBr

