

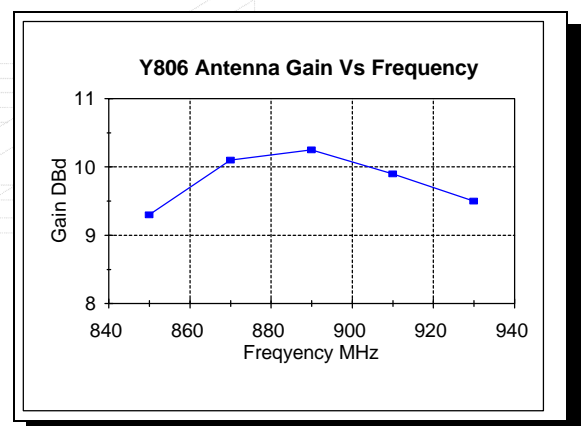
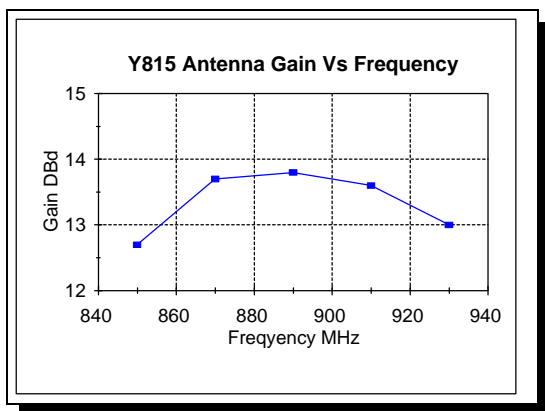
Technical Note TN-13

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900 MHz YAGI Antenna Characteristics

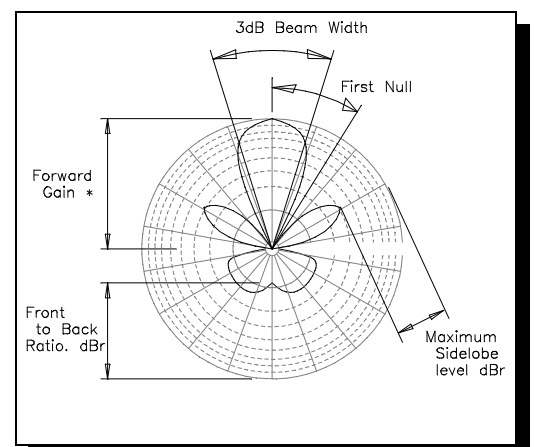
Type (model #)	TC-ANT13(AL/SS)	TC-ANT9(AL/SS)
Number of Elements	15	6
Gain <u>Note 1</u>	13dBd	9dBd
Impedance	50 Ohm	50 Ohm
Boom Length	1.7m	0.78m
Wind Loading (160 kph)	13.22 kg	5.96 kg
Tail Connection	100mm N type female	100mm N type female
Mounting Arrangements	55mm max.U clamp (pas cad)	55mm max U clamp (pas cad)
Weight (incl. clamp)	1.7kg(AL) 2.8kg(SS)	1.2kg(AL) 1.7kg(SS)

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



H plane Polar Characteristics (nominal and mounting dependant)

Type	TC-ANT13AL/SS)	TC-ANT9(AL/SS)
3dB beamwidth E plane	± 14 Degrees	± 23 Degrees
3dB beamwidth H plane	± 15 Degrees	± 26 Degrees
First (major lobe) null	± 30 degrees	± 50 Degrees
Front to back ratio	-20dB	-20dB
Maximum sidelobe	-17dB	-13dB



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