



Directional Yagi Antenna, 806-894, 12.1dBi, N Female

Product Description

The 10108 Broadband Yagi is specifically designed for control station operation. This antenna is ruggedly constructed of 6061-T6 aluminum rod and pipe. Director and reflector elements are precision welded to their main boom, effectively eliminating misalignment problems during shipping, installation or service. Radiating elements are enclosed in a molded ABS radome to protect against severe environmental conditions and minimize pattern distortion due to ice buildup. The mounting hardware supplied facilitates mounting on either vertical or horizontal members. The small surface area of the 10108 antenna minimizes wind resistance and conserves tower loading capacity. The 10108D consists of two 10108 antennas stacked and fed in-phase through a matching transformer. Normal polarization is vertical, however, antennas may be horizontally polarized provided the connectors are in the same orientation.



10108 Series

Features/Benefits

• **6061-T6 Aluminum elements – welded solid rod for high strength, low weight and corrosion resistance.** • **Broadband – duplex operation for cellular and trunking applications.** • **Weatherproof radome protects elements against severe weather conditions.**

Technical Specifications

Frequency Band	824-894 MHz, 806-869 MHz, 872-960 MHz, 896-940 MHz, 901-941 MHz
Horizontal Pattern	Directional
Antenna Type	Yagi/Corner
Electrical Down Tilt Option	Fixed
Gain, dBi (dBd)	12.1 (10)
Frequency Range, MHz	806-894
Connector Type	N Female
Connector Location	Bottom
Mount Type	Fixed
Electrical Downtilt, deg	0
Horizontal Beamwidth, deg	50
Mounting Hardware	Integral Plate w/U-bolts
Rated Wind Speed, km/h (mph)	241 (150)
VSWR	< 1.5:1
Vertical Beamwidth, deg	42
Polarization	Vertical
Front-To-Back Ratio, dB	20
Maximum Power Input, W	150
Lightning Protection	Direct Ground
Impedance, Ohms	50
Dimensions - HxWxD, mm (in)	889 x 203 x 102 (35 x 8 x 4)
Weight, kg (lb)	2 (5)
Element Material	6061 - T6 Aluminum
Max Wind Loading Area, m ² (ft ²)	0.017 (0.18)
Survival Wind Speed, km/h (mph)	200 (125)
Torsional Moment @ Rated Wind on support pipe, N m (ft lbf)	13 (9.3)
Wind Load - Side @ Rated Wind, N (lbf)	32 (7.2)
Shipping Weight, kg (lb)	2.3 (5)
Packing Dimensions, HxWxD, mm (in)	940 x 229 x 127 (37 x 9 x 5)
Shipping Mode	UPS

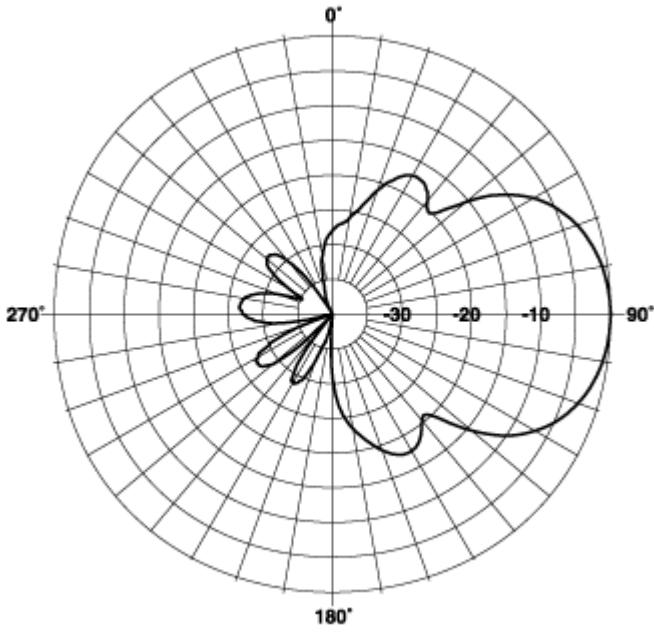
Notes

Other Documentation

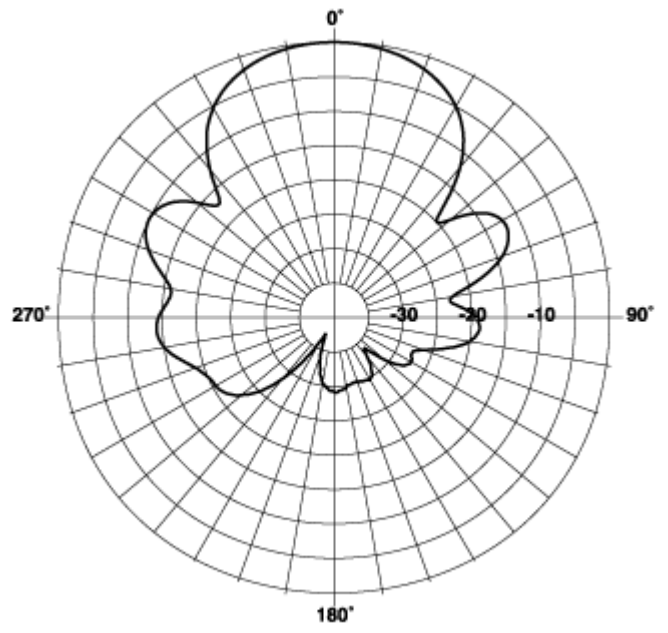
All information contained in the present datasheet is subject to confirmation at time of ordering



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Vertical Pattern



Horizontal Pattern

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