



Omnidirectional Fiberglass Antenna, 42-54, 2.1dBi, N Female

Product Description

The 1142 is a narrow band unity gain antenna built to a specific spot frequency requirement to effectively reduce interference from other near frequency transmitters. Of rugged, two-piece construction, the antenna's lower section is enclosed in heavy-wall fiberglass tubing. The upper whip is fiberglass and attaches in the field with a protected 1/2" x 20 threaded connector. This unit provides the advantages of DC ground lightning protection, versatility, installation ease and requires no ground plane elements to decouple from the support structure.

1142 Series

Features/Benefits

- Rugged construction assures system reliability.
- High selectivity limits interference from nearby systems.

Technical Specifications

Frequency Band	25-299.9 MHz
Horizontal Pattern	Omnidirectional
Antenna Type	Fiberglass Omni
Electrical Down Tilt Option	Fixed
Gain, dBi (dBd)	2.1 (0)
Frequency Range, MHz	42-54
Connector Type	N Female
Connector Location	Bottom
Mount Type	Fixed
Electrical Downtilt, deg	0
Mounting Hardware	46 Clamp Set
Rated Wind Speed, km/h (mph)	160 (100)
Gain (Omni), dBi (dBd)	2.14 (0)
VSWR	< 1.5:1
Vertical Beamwidth, deg	75
Polarization	Vertical
Maximum Power Input, W	250
Lightning Protection	Direct Ground
Impedance, Ohms	50
Overall Length, m (ft)	3.84 (12.6)
Element Housing Length, m (ft)	3.54 (11.6)
Mounting Pipe Diameter, m (in)	0.04 (1.66)
Support Pipe Length, m (ft)	0.3 (1)
Radiating Element Material	Copper Alloy
Element Housing Material	Fiberglass
Support Pipe Material	6061 - T6 Aluminum
Max Wind Loading Area, m ² (ft ²)	0.063 (0.68)
Survival Wind Speed, km/h (mph)	200 (125)
Bend Mom @ Rated Wind 1" Below Top of Mt Pipe, N m (ft lbf)	216 (159)
Wind Load - Side @ Rated Wind, N (lbf)	120 (27)
Shipping Weight, kg (lb)	10.9 (24)
Packing Dimensions, HxWxD, mm (in)	2320 x 100 x 100 (91.33 x 3.94 x 3.94)
Packing Dimensions - HxWxD, m (ft)	2.32 x 0.1 x 0.1 (7.6 x 0.33 x 0.33)
Shipping Dimensions of Accessory - HxWxD, m (ft)	0.5 x 0.10 x 0.10 (1.8 x 0.33 x 0.33)
Shipping Mode	UPS

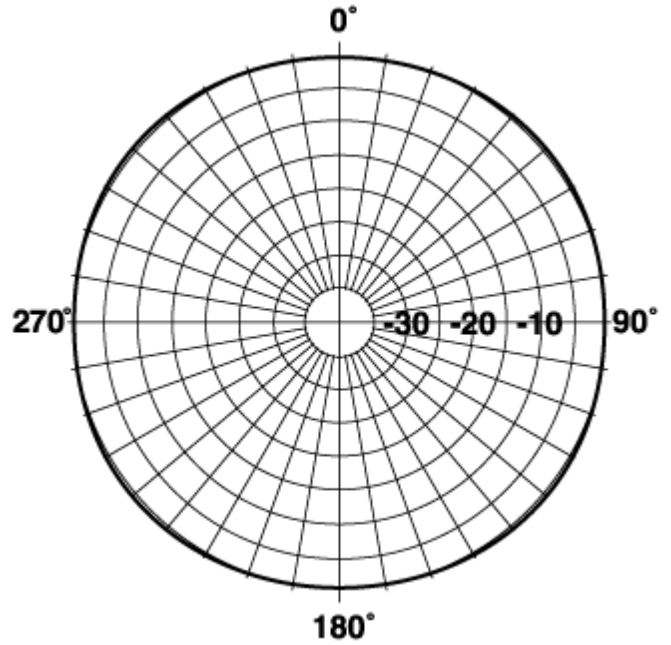
Notes

Specify Center Frequency.

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



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