Product Data Sheet **150-5N**

COMMANDER Omni Fiberglass Antenna,148-174 MHz, 5.1 dBi, N Female

Please visit us on the internet at http://www.commandertech.com

Product Description

Commander VHF base Station Antennas incorporate the design features of broadband capability, superior lightning protection and true omnidirectional gain in excess of 3 dBd. All copper and brass connections are soldered, reducing intermodulation. Mounting hardware is included.



Features/Benefits

Fiberglass construction protects radiating elements in corrosive environments. DC grounded - affords lightning protection
Copper radiating elements minimize possibility of intermod generation

Technical Specifications

Frequency Band	25-299.9 MHz
Horizontal Pattern	Omni Directional
Antenna Type	Fiberglass Omni
Electrical Down Tilt Option	Fixed
Gain, dBi (dBd)	5.1 (3)
Frequency Range, MHz	148- 174
Connector Type	N Female
Connector Location	Bottom
Mounting Type	Fixed
Electrical Down Tilt, deg	0
Orientation	Upright
Mounting Hardware	46-1 Clamp Set
Rated Wind Speed, km/h (mph)	282 (175)
Gain (Omni), dBi (dBd)	5.15 (3)
VSWR	< 1.5 : 1
Vertical Beamwidth, deg	35
Polarization	Vertical
Maximum Power Input, W	500
Lightning Protection	Direct Ground
3rd Order IMP @ 2 x 43 dBm, dBc	-130
Impedance, Ohms	50
Overall Length, m (in)	1.524 (60)
Element Housing Length, m (in)	1.245 (49)
Mounting Pipe Diameter, m (in)	0.07 (2.75)
Support Pipe Length, m (in)	0.28 (11)
Weight, kg (lb)	4 (8.5)
Radiating Element Material	Copper
Element Housing Material	Fiberglass
Support Pipe Material	Aluminum Alloy
Max Wind Loading Area m^2 (ft^2)	0.116 (1.245)
Survival Wind Speed, km/h (mph)	322 (200)
Bend Mom @ Rated Wind 1" Below Top of Mt Pipe, N m (ft lbf)	174 (128)
Wind Load - Side @ Rated Wind, N (lbf)	199 (44.8)
Shipping Weight, kg (lb)	10.4 (23)
Packing Dimensions, HxWxD mm (in)	2,159 x 100 x 100 (85 X 3.94 X 3.94)
Packing Dimensions, HxWxD, m (ft)	2.16 x 0.1 x 0.1 (7.08 x 0.33 x 0.33)
Shipping Dimensions of Accessory, HxWxD, m (ft)	Packed with Antenna
Shipping Mode	UPS Shippable

Notes

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

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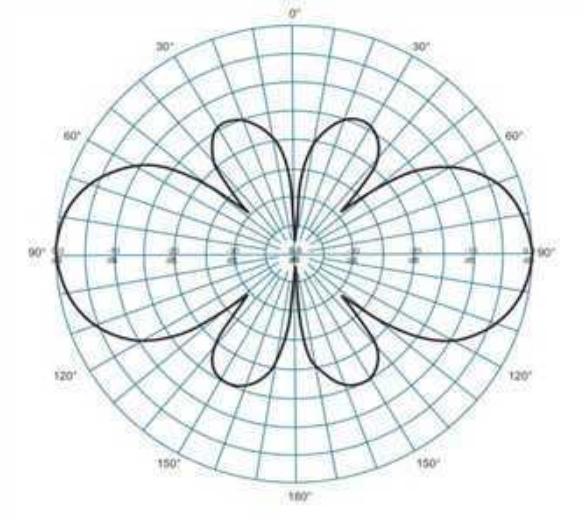
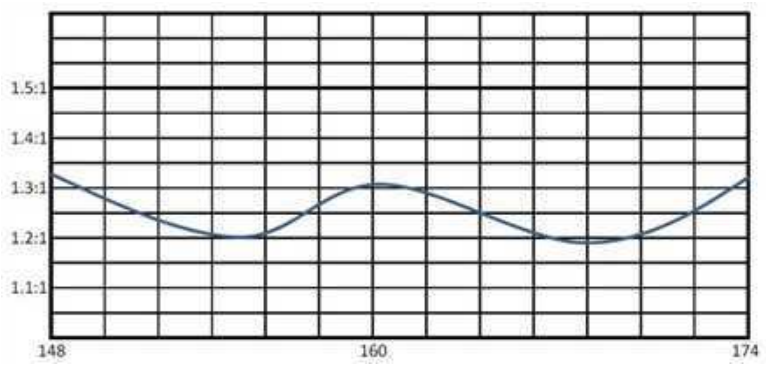
Other Documentation



Vertical Pattern



Typical VSWR Results

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