

Commander Omni Fiberglass Antenna, 806-866, 6.1 dBi, N Female

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

Product Description

This collinear antenna provides consistent gain and impedance across the operating frequency band and is designed to meet various omnidirectional requirements for repeated control stations.

This antenna utilizes copper radiating elements and is encased in small diameter fiberglass to reduce wind resistance. Commander Antennas incorporate design enhancements not normally available in other fiberglass collinear antennas of comparable size.

Features/Benefits

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

Technical Specifications

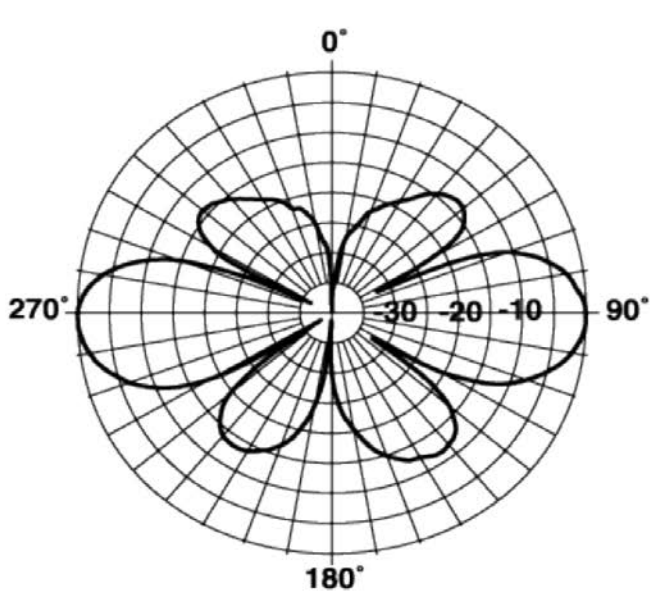
Frequency Range, MHz	806-866
Horizontal Pattern	Omni Directional
Antenna Type	Fiberglass Omni
Electrical Down Tilt, deg	0
Gain, dBi (dBd)	6.1 (4)
Vertical Beamwidth, deg	25
Connector Type	N Female
Connector Location	Bottom
Mounting Type	Fixed
Polarization	Vertical
Orientation	Upright
Mounting Hardware	46 Clamp Set
Rated Wind Speed, km/h (mph)	200 (125)
VSWR	< 1.5 : 1
Bandwidth for 1.5 : 1 VSWR, MHz	60
3rd Order IMP @ 2 x 43 dBm, dBc	-130
Maximum Power Input, W	500
Lightning Protection	Direct Ground
Impedance, Ohms	50
Overall Length, m (ft)	1.07 (3.5)
Element Housing Length, m (ft)	.76 (2.5)
Mounting Pipe Diameter, m (in)	.04 (1.66)
Support Pipe Length, m (ft)	.03 (1)
Weight, kg (lb)	2 (4)
Radiating Element Material	Copper Alloy
Element Housing Material	Fiberglass
Support Pipe Material	6061-T6 Aluminum
Max Wind Loading Area m ² (ft ²)	.0028 (0.3)
Survival Wind Speed, km/h (mph)	241 (150)
Bend Mom @ Rated Wind 1" Below Top of Mt Pipe, N m (ft lbf)	49 (36)
Wind Load - Side @ Rated Wind, N (lbf)	120 (27)
Shipping Weight, kg (lb)	7.7 (17)
Packing Dimensions, HxWxD mm (in)	1710 x 100 x 100 (67.32 x 3.94 x 3.94)
Packing Dimensions, HxWxD, m (ft)	1.71 x 0.1 x 0.1 (5.6 x 0.33 x 0.33)
Shipping Dimensions of Accessory - HxWxD, m (ft)	Packed With Antenna
Shipping Mode	UPS

Notes

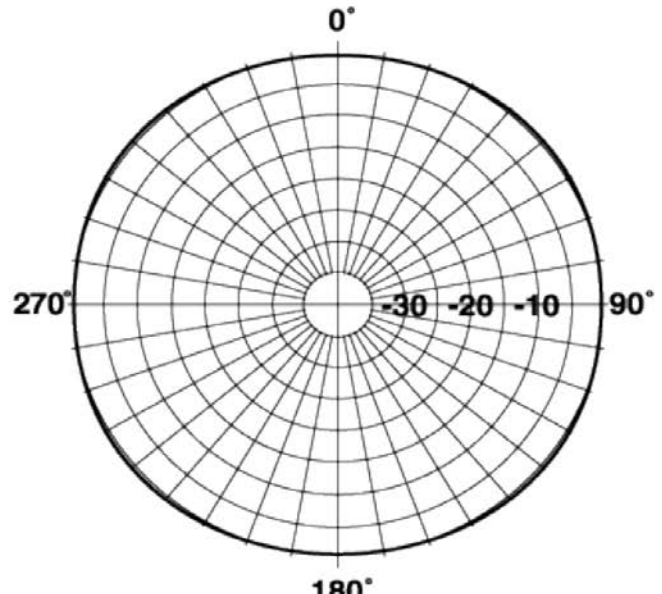
Commander Omni Fiberglass Antenna, 806-866, 6.1 dBi, N Female

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

Other Documentation



Vertical Pattern



Horizontal Pattern

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