COMMANDERTECHNOLOGIES

COMMANDER Omni Fiberglass Antenna, 165-174, 7.4dBi, N Female

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Product Description

Commander VHF base Station Antennas incorporate the design features of 9 MHz broadband capability, improved lightning protection and true omnidirectional gain in excess of 5 dBd Note: Below 150 MHz, rated gain is 4.8 dBd due to length constraints. Side mounting hardware is available for the 220 to achieve special radiation patterns.



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

Features/Benefits

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

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)	7.4 (5.3)
Frequency Range, MHz	165-174
Connector Type	N Female
Connector Location	Bottom
Mounting Type	Fixed
Electrical Down Tilt, deg	0
Orientation	Upright
Mounting Hardware	46 Clamp Set
Rated Wind Speed, km/h (mph)	160 (100)
Gain (Omni), dBi (dBd)	7.39 (5.25)
VSWR	< 1.6 : 1
Vertical Beamwidth, deg	18
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 (ft)	5.79 (19)
Element Housing Length, m (ft)	5.18 (17)
Mounting Pipe Diameter, m (in)	0.07 (2.75)
Support Pipe Length, m (ft)	0.63 (2.08)
Weight, kg (lb)	10 (22)
Radiating Element Material	Copper
Element Housing Material	Fiberglass
Support Pipe Material	Aluminum Alloy
Max Wind Loading Area m ² (ft ²)	0.199 (2.14)
Survival Wind Speed, km/h (mph)	200 (125)
Bend Mom @ Rated Wind 1" Below Top of Mt Pipe, N m (ft lbf)	1001 (738)
Wind Load - Side @ Rated Wind, N (lbf)	382 (86)
Shipping Weight, kg (lb)	25.9 (57)
Packing Dimensions, HxWxD mm (in)	6340 x 100 x 100 (249.60 X 3.94 X 3.94)
Packing Dimensions, HxWxD, m (ft)	6.34 x 0.1 x 0.1 (20.8 x 0.33 x 0.33)
Shipping Dimensions of Accessory, HxWxD, m (ft)	Packed with Antenna
Shipping Mode	Common Carrier

Notes

COMMANDER Model 220-7N	REV: 1.0	Print Date:	1/5/2012



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Other Documentation

