

# COMMANDER Omni Fiberglass Antenna, 136-174, 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.



### Features/Benefits

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

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Frequency Band	recilinear Specifications		
Antenna Type   Electrical Down Tilt Option   Fixed	Frequency Band	25-299.9 MHz	
Electrical Down Tilt Option	Horizontal Pattern	Omni Directional	
Gain, dBi (dBd)         7.1 (5.0)           Frequency Range, MHz         136 - 174           Connector Type         N Female           Connector Location         Bottom           Mounting Type         Fixed           Electrical Down Tilt, deg         -3           Orientation         Upright           Mounting Hardware         46 Clamp Set           Rated Wind Speed, km/h (mph)         161 (100)           Gain (Dmni), dBi (dBd)         7.39 (5.25)           VSWR         < 1.6 : 1	Antenna Type	Fiberglass Omni	
Frequency Range, MHz         136 - 174           Connector Type         N Female           Connector Location         Bottom           Mounting Type         Fixed           Electrical Down Tilt, deg         -3           Orientation         Upright           Mounting Hardware         46 Clamp Set           Rated Wind Speed, km/h (mph)         161 (100)           Gain (Omni), dBi (dBd)         7.39 (5.25)           VSWR         < 1.6 : 1	Electrical Down Tilt Option	Fixed	
Connector Type         N Female           Connector Location         Bottom           Mounting Type         Fixed           Electrical Down Tilt, deg         -3           Orientation         Upright           Mounting Hardware         46 Clamp Set           Rated Wind Speed, km/h (mph)         161 (100)           Gain (Onni), 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)         6.1 (20)           Element Housing Length, m (ft)         5.37 (17.6)           Mounting Pipe Diameter, m (in)         0.07 (2.75)           Support Pipe Length, m (ft)         0.71 (2.33)           Weight, kg (lb)         10.5 (23)           Radiating Element Material         Copper           Element Housing Material         Aluminum Alloy           Max Wind Loading Area m² (ft²)         0.211 (2.27)           Survival Wind Speed, km/h (mph)         200 (125)	Gain, dBi (dBd)	7.1 (5.0)	
Connector Location         Bottom           Mounting Type         Fixed           Electrical Down Tilt, deg         -3           Orientation         Upright           Mounting Hardware         46 Clamp Set           Rated Wind Speed, km/h (mph)         161 (100)           Gain (Ornni), dBi (dBd)         7.39 (5.25)           VSWR         < 1.6 : 1	Frequency Range, MHz	136 - 174	
Mounting Type	Connector Type	N Female	
Electrical Down Tilt, deg	Connector Location	Bottom	
Orientation         Upright           Mounting Hardware         46 Clamp Set           Rated Wind Speed, km/h (mph)         161 (100)           Gain (Omni), dBi (dBd)         7.39 (5.25)           VSWR         < 1.6 : 1	Mounting Type	Fixed	
Mounting Hardware         46 Clamp Set           Rated Wind Speed, km/h (mph)         161 (100)           Gain (Omni), dBi (dBd)         7.39 (5.25)           VSWR         < 1.6 : 1	Electrical Down Tilt, deg	-3	
Rated Wind Speed, km/h (mph)         161 (100)           Gain (Omni), dBi (dBd)         7.39 (5.25)           VSWR         < 1.6 : 1	Orientation	Upright	
Gain (Omni), dBi (dBd)       7.39 (5.25)         VSWR       < 1.6 : 1	Mounting Hardware	46 Clamp Set	
VSWR  Vertical Beamwidth, deg  18  Polarization  Wertical  Maximum Power Input, W  Lightning Protection  3rd Order IMP @ 2 x 43 dBm, dBc  Impedance, Ohms  Overall Length, m (ft)  Element Housing Length, m (ft)  Mounting Pipe Diameter, m (in)  Support Pipe Length, m (ft)  Weight, kg (ib)  Radiating Element Material  Element Housing Material  Element Housing Material  Element Housing Material  Support Pipe Material  Aluminum Alloy  Max Wind Loading Area m² (ft²)  Survival Wind Speed, km/h (mph)  Bend Mom @ Rated Wind 1" Below Top of Mt Pipe, N m (ft Ibf)  Shipping Weight, kg (lb)  Packing Dimensions, HxWxD mm (in)  Packing Dimensions, HxWxD m (ft)  6.8 x 0.1 x 0.1 (2.2 x 0.33 x 0.33)  Packing Dimensions, HxWxD m (ft)  6.8 x 0.1 x 0.1 (22.3 x 0.33 x 0.33)  Shipping Dimensions of Accessory, HxWxD, m (ft)  Packed with Antenna		161 (100)	
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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) 6.1 (20)  Element Housing Length, m (ft) 5.37 (17.6)  Mounting Pipe Diameter, m (in) 0.07 (2.75)  Support Pipe Length, m (ft) 0.71 (2.33)  Weight, kg (Ib) 10.5 (23)  Radiating Element Material Copper  Element Housing Material Fiberglass  Support Pipe Material Aluminum Alloy  Max Wind Loading Area m² (ft²) 0.211 (2.27)  Survival Wind Speed, km/h (mph) 200 (125)  Bend Mom @ Rated Wind 1" Below Top of Mt Pipe, N m (ft Ibf) 1096 (808)  Wind Load - Side @ Rated Wind, N (Ibf) 405 (91)  Shipping Weight, kg (Ib) 25.9 (57)  Packing Dimensions, HxWxD mm (in) 6800 x 100 x 100 (267.71 x 3.94 x 3.94)  Packing Dimensions, HxWxD mm (ft) 6.8 x 0.1 x 0.1 (22.3 x 0.33 x 0.33)  Shipping Dimensions of Accessory, HxWxD, m (ftt) Packed with Antenna		< 1.6 : 1	
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Mounting Pipe Diameter, m (in)  Support Pipe Length, m (ft)  Weight, kg (lb)  Radiating Element Material  Element Housing Material  Support Pipe Material  Max Wind Loading Area m² (ft²)  Survival Wind Speed, km/h (mph)  Bend Mom @ Rated Wind 1" Below Top of Mt Pipe, N m (ft lbf)  Wind Load - Side @ Rated Wind, N (lbf)  Shipping Weight, kg (lb)  Packing Dimensions, HxWxD mm (in)  Packed with Antenna  0.07 (2.75)  0.71 (2.33)  Aluminum Alloy  Aluminum Alloy  0.211 (2.27)  0.211 (2.27)  1096 (808)  409 (91)  5199 (808)  6800 x 100 x 100 (267.71 X 3.94 X 3.94)  688 x 0.1 x 0.1 (22.3 x 0.33 x 0.33)  Shipping Dimensions of Accessory, HxWxD, m (ft)  Packed with Antenna		6.1 (20)	
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Shipping Dimensions of Accessory, HxWxD, m (ft)  Packed with Antenna	Packing Dimensions, HxWxD mm (in)	6800 x 100 x 100 (267.71 X 3.94 X 3.94)	
	Packing Dimensions, HxWxD, m (ft)	6.8 x 0.1 x 0.1 (22.3 x 0.33 x 0.33)	
Shipping Mode Common Carrier	Shipping Dimensions of Accessory, HxWxD, m (ft)	Packed with Antenna	
	Shipping Mode	Common Carrier	

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COMMANDER Omni Fiberglass Antenna, 136-174, 7.4dBi, N Female Please visit us on the internet at <a href="http://www.commandertech.com">http://www.commandertech.com</a>

## **Other Documentation**

