

**COMMANDER Rugged Broadband Omni, 450-470, 9.1dBi,N Female**

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

The 458 is designed for use in areas where electrical storms are highly prevalent. An exposed lightning spike at the top of the antenna is directly connected to the support pipe via a 7/8 inch (22 mm) O.D. high conductivity copper conductor. The radiating system of this antenna consists of six 1/2 wave elements mounted coaxially. The copper 7/8 in. (22 mm) diameter feed line shunt feeds each center grounded element.


**Features/Benefits**

- Robust DC grounding protects against damage from lightning strikes - Broad Bandwidth; fewer models to cover the band
- High power capability for multiple high power combined applications.

**Technical Specifications**

Frequency Band	300-699.9
Horizontal Pattern	Omni Directional
Antenna Type	Fiberglass Omni
Electrical Down Tilt Option	Fixed
Gain, dBi (dBd)	19.1 (7)
Frequency Range, MHz	450-470
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)	9.1 (7)
VSWR	< 1.5 : 1
Vertical Beamwidth, deg	12
Polarization	Vertical
Maximum Power Input, W	250
Lightning Protection	Direct Ground
3rd Order IMP @ 2 x 43 dBm, dBc	-130
Impedance, Ohms	50
Overall Length, m (ft)	4.05 (13.3)
Element Housing Length, m (ft)	3.44(11.3)
Mounting Pipe Diameter, m (in)	0.07 (2.75)
Support Pipe Length, m (ft)	0.61 (2)
Weight, kg (lb)	10 (22)
Radiating Element Material	Brass
Element Housing Material	Fiberglass
Support Pipe Material	Aluminum Alloy
Max Wind Loading Area m <sup>2</sup> (ft <sup>2</sup> )	0.167(1.8)
Survival Wind Speed, km/h (mph)	200 (125)
Bend Mom @ Rated Wind 1" Below Top of Mt Pipe, N m (ft lbf)	560 (413)
Wind Load - Side @ Rated Wind, N (lbf)	320 (72)
Shipping Weight, kg (lb)	27.2 (60)
Packing Dimensions, HxWxD mm (in)	4820 x 130 x 130 (189.76 X 5.11 X 5.11)
Packing Dimensions, HxWxD, m (ft)	4.82 x 0.13 x 0.13 (15.8 x 0.42 x 0.42)
Shipping Dimensions of Accessory, HxWxD, m (ft)	Packed with Antenna
Shipping Mode	Common Carrier

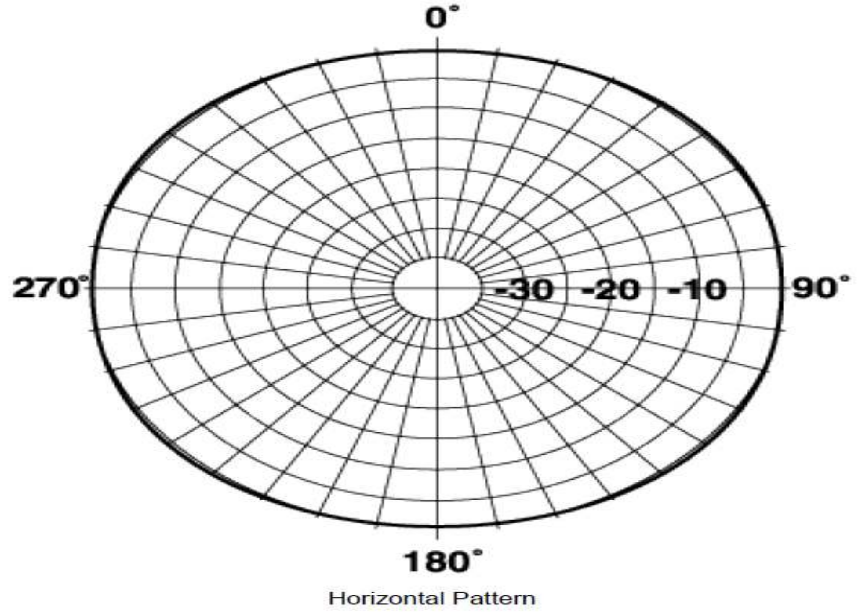
**Notes**

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

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**Other Documentation**



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