PRODUCT DATASHEET

BA1010-4

Omnidirectional Fiberglass Antenna, 114-125, 2.1dBi, N Female

These antennas feature a very broad frequency band and rugged construction. Radiating elements are constructed of copper alloy, encased in a weather resistant low loss fiberglass radome. The BA1010 ""Heavy Duty"" is permanently affixed to a unique mounting fixture which allows mounting on top of or along-side of most vertical supports. Due to their wide bandwidth, they are ideal for use as emergency backup antennas. Their size and mounting fixtures allow for easy storage and fast installation. Alternative mounting hardware is available for most applications.

FEATURES / BENEFITS

- Broadband - reduces backup inventory and the need for multiple antennas.
- Fiberglass radome protects radiating elements in hostile environments.
- Copper elements maximize system performance while minimizing the possibility of intermod.



BA1010 Series

Technical features

ELECTRICAL SPECIFICATIONS

Horizontal Pattern		OmniDirectional
Frequency Range	MHz	114 - 125
Horizontal Beamwidth	deg	N/A
Gain	dBi (dBd)	2.1
Vertical Beamwidth	deg	80
Polarization		Vertical
VSWR		< 1.5:1
Bandwidth for 1.5:1 VSWR	MHz	< 1.5:1
Impedance	Ohms	50
Maximum Power Input	W	500
Lightning Protection		Direct Ground

GENERAL SPECIFICATIONS

Antenna Type		Fiberglass Omni

All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering.

MECHANICAL SPECIFICATIONS

Connector Type		N Female
Connector Location		Bottom
Weight w/o Mtg Hardware	kg (lb)	4 (9.9)
Mount Type		Fixed
Mounting Hardware		Stainless Steel U-Bolts (E380-03F)
Rated Wind Speed	km/h (mph)	200 (125)
Flexible Extensions		None
Overall Length	m (ft)	1.86 (6.1)
Mounting Pipe Diameter	m (in)	0.08 (3)
Support Pipe Length	m (ft)	0.3 (1)
Radiating Element Material		Brass
Element Housing Material		Fiberglass
Radome Color		White RAL9010
Mounting Hardware Material		Stainless Steel U-Bolts (E380-03F)
Support Pipe Material		Black Powder Coated Aluminum
Max Wind Loading Area	m^2 (ft^2)	0.099 (1.07)
Bend Mom @ Rated Wind 1" Below Top of Mt Pipe Comment		N/A

PACKAGING INFORMATION

Shipping Weight	kg (lb)	5.5 (12.1)
Shipping Comment		Packed w/antenna

External Document Links

Notes

- **Radiating patterns:** Request pattern files

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