

BA1312-3

Features

These antennas feature a very broad frequency band, rugged construction and small size. Radiating elements are constructed of copper alloy, encased in a weather-resistant, low-loss fiberglass radome. BA1312 "Light Weight" models terminate in a 1 inch-14 threaded ferrule which attaches directly to the N275F mounting hardware. 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.

- 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



BA1312 Series

PRODUCT OVERVIEW	Antenna Type	Fiberglass Omni
	Frequency Range (MHz)	163-171
	Connector	1 PORT
	Polarization	Vertical
	Gain	5.1 dBi
	Overall Length	2.62 m (8.6 ft)

ORDERING OPTIONS

Select from the following ordering options

ANTENNA MODEL NUMBER	MOUNTING HARDWARE	SHIPPING WEIGHT
BA1312-3	N275F Mounting Bracket Kit	1.2 kg (2.6 lbs)

BA1312-3

ELECTRICAL SPECIFICATIONS

Frequency Range	MHz	163-171
Polarization	---	Vertical
Gain	dBi	5.1
Azimuth Pattern	---	Omnidirectional
Azimuth Beamwidth (3 dB)	degrees	N/A
Elevation Beamwidth (3 dB)	degrees	35°
Impedance	Ohms	50Ω
VSWR	---	< 1.5:1
Bandwidth for 1.5:1 VSWR	MHz	< 1.5:1
Maximum Effective Power Per Port	Watts	100 W

MECHANICAL SPECIFICATIONS

Overall Length		m (ft)	2.62 (8.6)
Element Housing Length		m (ft)	2.56 (8.4)
Mounting Pipe Diameter		m (in)	0.03 (1.2)
Support Pipe Length		m (ft)	0.12 (0.4)
Net Weight - Antenna Only		kg (lbs)	1 (2)
Mounting Type		---	Fixed
Flexible Extensions		---	None
Max Wind Loading Area		m ² (ft ²)	0.048 (0.52)
Rated Wind Speed		km/h (mph)	160 (100)
Bend Mom @ Rated Wind 1" Below Top of Mt. Pipe		N m (ft lbf)	126 (93)
Wind Load - Side @ Rated Wind		N (lbf)	71 (16)
Connector Type		---	(1x) N Female at Bottom
Radiating Element Material		---	Brass
Element Housing Material		---	Fiberglass
Radome Color		---	White RAL9010
Mounting Hardware & Material		---	N275F
Support Pipe Material		---	Black Powder Coated Aluminum
Lightning Protection		---	Direct Ground
Packaging Information	Shipping Weight	kg (lbs)	1.2 (2.6)
	Packing Dimensions HxWxD	mm (in)	2700 x 60 x 60 (106.3 x 2.4 x 2.4)
	Shipping Dimensions of Accessory HxWxD	m (ft)	0.2 x 0.11 x 0.08 (0.66 x 0.36 x 0.26)
	Shipping Comment	---	N275F mounting bracket packed in second box (0.7 kg / 1.5 lbs)

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

BA1312-3

INSTALLATION Please read all installation notes before installing product.



Always attach the antenna using all mounting points.

Do not install antenna with the connectors facing upwards.

EXTERNAL DOCUMENT LINKS

[N/A](#)

NOTES

For Radiating Patterns: [Request pattern files](#)