

**BA1012-2**

Omnidirectional Fiberglass Antenna, 154-174, 2.1dBi, N Female



BA1012 Series

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. BA1012 "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.

**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.

**Technical features**

**ELECTRICAL SPECIFICATIONS**

<b>Horizontal Pattern</b>		Omnidirectional
<b>Frequency Range</b>	MHz	154 - 174
<b>Horizontal Beamwidth</b>	deg	N/A
<b>Gain</b>	dBi (dBd)	2.1
<b>Vertical Beamwidth</b>	deg	80
<b>Polarization</b>		Vertical
<b>VSWR</b>		< 1.5:1
<b>Bandwidth for 1.5:1 VSWR</b>	MHz	< 1.5:1
<b>Impedance</b>	Ohms	50
<b>Maximum Power Input</b>	W	100
<b>Lightning Protection</b>		Direct Ground

**GENERAL SPECIFICATIONS**

<b>Antenna Type</b>		Fiberglass Omni
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**MECHANICAL SPECIFICATIONS**

<b>Connector Type</b>		N Female
<b>Connector Location</b>		Bottom
<b>Weight w/o Mtg Hardware</b>	kg (lb)	1 (1.3)
<b>Mount Type</b>		Fixed
<b>Mounting Hardware</b>		N275F
<b>Rated Wind Speed</b>	km/h (mph)	200 (125)
<b>Flexible Extensions</b>		None
<b>Overall Length</b>	m (ft)	1.13 (3.7)
<b>Element Housing Length</b>	m (ft)	1.25 (4.1)
<b>Mounting Pipe Diameter</b>	m (in)	0.03 (1.2)
<b>Support Pipe Length</b>	m (ft)	0.12 (0.4)
<b>Radiating Element Material</b>		Brass
<b>Element Housing Material</b>		Fiberglass
<b>Radome Color</b>		White RAL9010
<b>Mounting Hardware Material</b>		N275F
<b>Support Pipe Material</b>		Black Powder Coated Aluminum
<b>Max Wind Loading Area</b>	m <sup>2</sup> (ft <sup>2</sup> )	0.021 (0.23)
<b>Bend Mom @ Rated Wind 1" Below Top of Mt Pipe Comment</b>		N/A
<b>Wind Load - Side @ Rated Wind</b>	N (lbf)	46 (10.34)

**PACKAGING INFORMATION**

<b>Shipping Weight</b>	kg (lb)	0.8 (1.8)
<b>Packing Dimensions, HxWxD</b>	mm (in)	1480 x 60 x 60 (58.3 x 2.4 x 2.4)
<b>Shipping Dimensions of Accessory - HxWxD</b>	m (ft)	0.2 x 0.11 x 0.08 (0.66 x 0.36 x 0.26)
<b>Shipping Comment</b>		N275F Mounting Bracket Packed in Second Box (.7kg / 1.5lb)

External Document Links

Notes

- Radiating patterns: [Request pattern files](#)