

BA1312-2

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) | 156-163 |
| | 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 |
|----------------------|----------------------------|------------------|
| BA1312-2 | N275F Mounting Bracket Kit | 1.2 kg (2.6 lbs) |

BA1312-2

ELECTRICAL SPECIFICATIONS

| | | |
|----------------------------------|---------|-----------------|
| Frequency Range | MHz | 156-163 |
| 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 | | m² (ft²) | 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) |
| 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.

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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](#)