



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 | 146 - 164 |
| 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 |
|---------------------|--|-----------------|



MECHANICAL SPECIFICATIONS

| | | |
|--|-----------------------------------|------------------------------------|
| Connector Type | | N Female |
| Connector Location | | Bottom |
| Weight w/o Mtg Hardware | kg (lb) | 4 (8.8) |
| 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) | 1.43 (4.7) |
| 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 Anodized Aluminum |
| Max Wind Loading Area | m ² (ft ²) | 0.08 (0.86) |
| Bend Mom @ Rated Wind 1" Below Top of Mt Pipe | N m (ft lbf) | 90 (66.6) |
| Wind Load - Side @ Rated Wind | N (lbf) | 283 (63.6) |

PACKAGING INFORMATION

| | | |
|------------------|---------|------------------|
| Shipping Weight | kg (lb) | 6.1 (13.5) |
| Shipping Comment | | Packed w/antenna |

External Document Links

Notes

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