

## BMR12-A-B1

### Features

The novel side fed dipole design of these antennas provides 6 dBd, 8 dBd, 10 dBd or 12 dBd omnidirectional gain with 63 MHz bandwidth. They feature constant beamtilt, heavy null fill, and have been VSWR tested. Depending upon the specific required area of coverage, horizontal patterns O, A, B, D or H are available.

- High gain maximizes ERP
- Heavy null fill enhances close-in coverage
- Customized beamtilt minimizes interference to and from adjacent systems
- Various patterns available to efficiently cover target area



| PRODUCT OVERVIEW | Antenna Type            | Penetrator™                      |
|------------------|-------------------------|----------------------------------|
|                  | Frequency Range (MHz)   | 806-869                          |
|                  | Connector               | 1 PORT                           |
|                  | Polarization            | Vertical                         |
|                  | Azimuth Beamwidth (avg) | 220°                             |
|                  | Gain                    | 16.4 dBi                         |
|                  | Electrical Downtilt     | 0.75°                            |
|                  | Dimensions              | 6100 x 168.3 mm (240.2 x 6.6 in) |

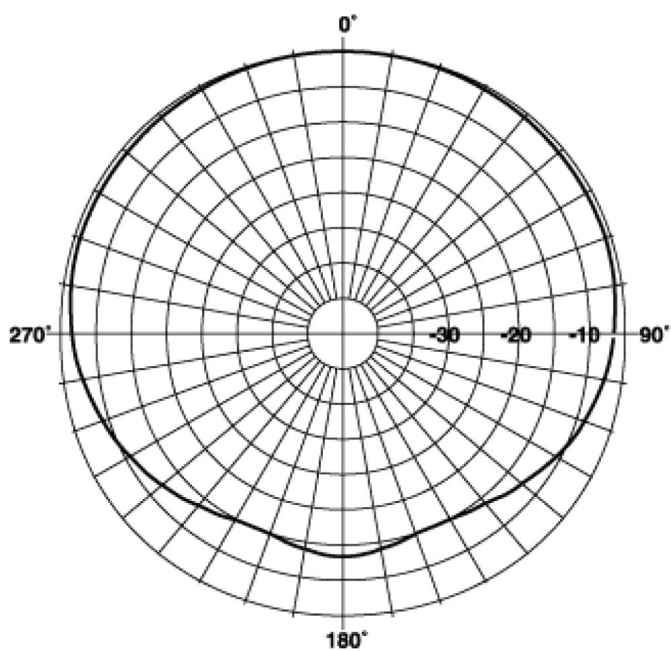
### ORDERING OPTIONS Select from the following ordering options

| ANTENNA MODEL NUMBER | MOUNTING HARDWARE   | SHIPPING WEIGHT                                                                                                                                                   |
|----------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BMR12-A-B1           | B1 Bracket Included | <b>Antenna and mounting hardware are shipped separately.</b><br>Antenna Shipping Weight: 66.7 kg (147 lbs)<br>Mounting Hardware Shipping Weight: 23.6 kg (52 lbs) |

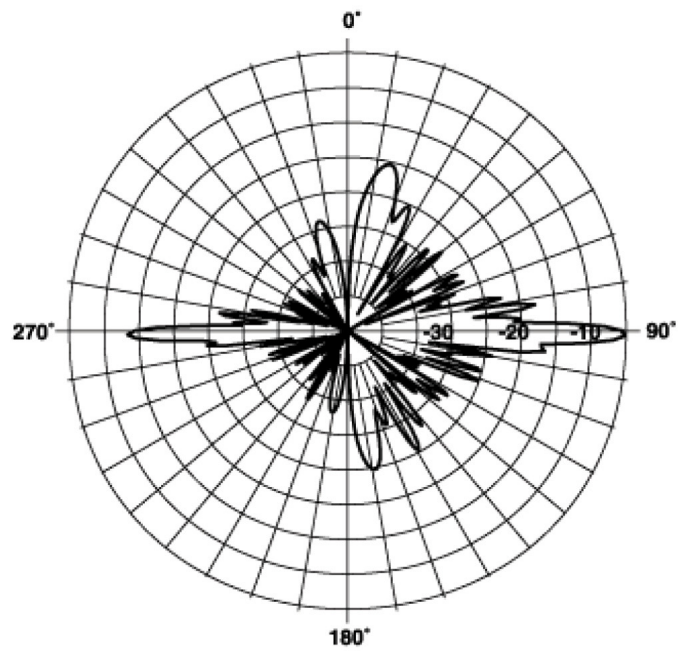
## BMR12-A-B1

### ELECTRICAL SPECIFICATIONS

|                                  |         |             |
|----------------------------------|---------|-------------|
| Frequency Range                  | MHz     | 806-869     |
| Polarization                     | ---     | Vertical    |
| Gain                             | dBi     | 16.4        |
| Azimuth Pattern                  | ---     | Directional |
| Azimuth Beamwidth (3 dB)         | degrees | 220°        |
| Elevation Beamwidth (3 dB)       | degrees | 3.5°        |
| Electrical Downtilt              | degrees | 0.75°       |
| Impedance                        | Ohms    | 50Ω         |
| VSWR                             | ---     | < 1.5:1     |
| Front-to-Back Ratio              | dB      | 8           |
| 1st Null Fill                    | dB      | Included    |
| Null Fill                        | dB      | Included    |
| Maximum Effective Power Per Port | Watts   | 500 W       |



**AZIMUTH PATTERN**



**ELEVATION PATTERN**


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.

## BMR12-A-B1

### MECHANICAL SPECIFICATIONS

|                                                                          |                                   |                                |
|--------------------------------------------------------------------------|-----------------------------------|--------------------------------|
| Length                                                                   | mm (in)                           | 6100 (240.2)                   |
| Diameter                                                                 | mm (in)                           | 168.3 (6.6)                    |
| Net Weight - Antenna Only                                                | kg (lbs)                          | 39.9 (88)                      |
| Net Weight - Mounting Hardware Only                                      | kg (lbs)                          | 22.7 (50)                      |
| Max Wind Loading Area                                                    | m <sup>2</sup> (ft <sup>2</sup> ) | 1.04 (11.2)                    |
| Survival Wind Speed / Rated Wind Speed                                   | km/h (mph)                        | 225 (140)                      |
| Wind Speed / Rated Wind Speed Comment                                    | ---                               | See Notes *                    |
| Connector Type                                                           | ---                               | (1x) N Female at Bottom        |
| Radiating Element Material                                               | ---                               | Aluminum                       |
| Element Housing Material                                                 | ---                               | Fiberglass                     |
| Lightning Protection                                                     | ---                               | Top Rod Grounded to Base Mount |
| <b>Shipping</b><br>Antenna and mounting hardware are shipped separately. | Antenna Shipping Weight           | kg (lbs)<br>66.7 (147)         |
|                                                                          | Mounting Hardware Shipping Weight | kg (lbs)<br>23.6 (52)          |

### 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

[B1 Bracket Installation Instructions](#)

### NOTES

\*Up to a maximum height of 500 ft.

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