PRODUCT DATASHEET

BMR8-A-B1

Penetrator™ Antenna, 806-869, 12.4dBi, 220deg

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.

FEATURES / BENEFITS

- 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.

BMR* Series

Technical features

ELECTRICAL SPECIFICATIONS

Horizontal Pattern		Directional	
Frequency Range	MHz	806 - 869	
Horizontal Beamwidth	deg	220	
Electrical Downtilt	deg	0.75	
Gain	dBi (dBd)	12.4	10.3
Vertical Beamwidth	deg	8.5	
1st Null Fill	dB	Included	
Null Fill	dB	Included	
Front-To-Back Ratio	dB	8	
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		Top Rod Grounded to Base Mount	

GENERAL SPECIFICATIONS

Antenna Type		Penetrator

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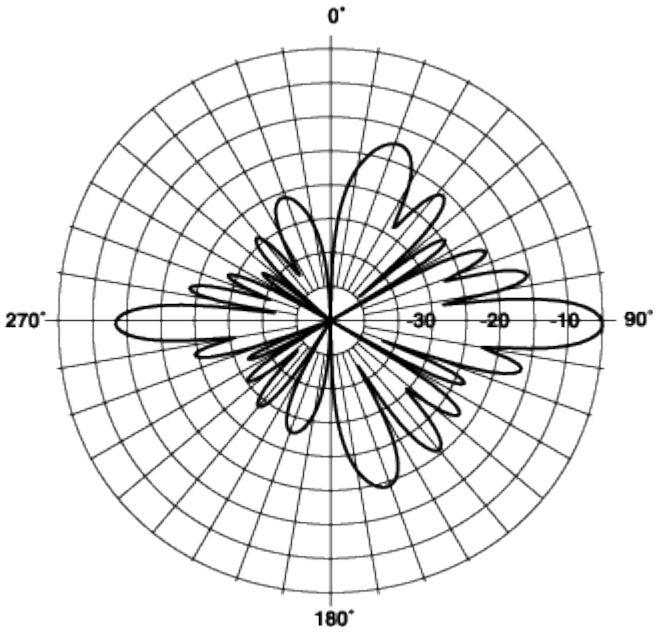
MECHANICAL SPECIFICATIONS

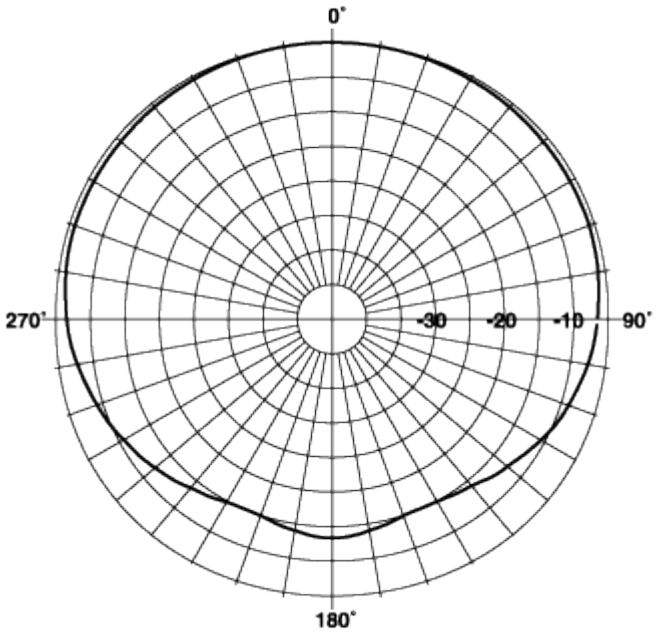
Connector Type		N Female
Connector Location		Bottom
Weight	kg (lb)	16 (36)
Weight with B1 Bracket	kg (lb)	31 (68)
Mount Type		Bracket
Mounting Hardware		B1 Bracket (included)
Rated Wind Speed	km/h (mph)	200 (125)
Overall Length	m (ft)	2.44 (8)
Diameter	mm (in)	168.3 (6.625)
Radiating Element Material		Aluminum
Element Housing Material		Fiberglass
Mounting Hardware Material		B1 Bracket (included)
Max Wind Loading Area	m^2 (ft^2)	0.195 (2.1)
Survival Wind Speed	km/h (mph)	200 (125)

PACKAGING INFORMATION

Shipping Weight	kg (lb)	27.2 (60)



Vertical Pattern



Horizontal Pattern

External Document Links

RFS_B1_Bracket_Installation_Instruction

Notes

- **Radiating patterns:** Request pattern files