

BPS10S-O-B1



Features

The novel side fed dipole design of these antennas provides 10 dBd omnidirectional gain with 60 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
- S-option 7/16 connector

PRODUCT OVERVIEW	Antenna Type	Penetrator™
	Frequency Range (MHz)	746-806
	Connector	1 PORT
	Polarization	Vertical
	Azimuth Beamwidth (avg)	360°
	Gain	12.1 dBi
	Electrical Downtilt	0.75°
	Dimensions	4260 x 168.3 mm (167.7 x 6.6 in)

ORDERING OPTIONS Select from the following ordering options

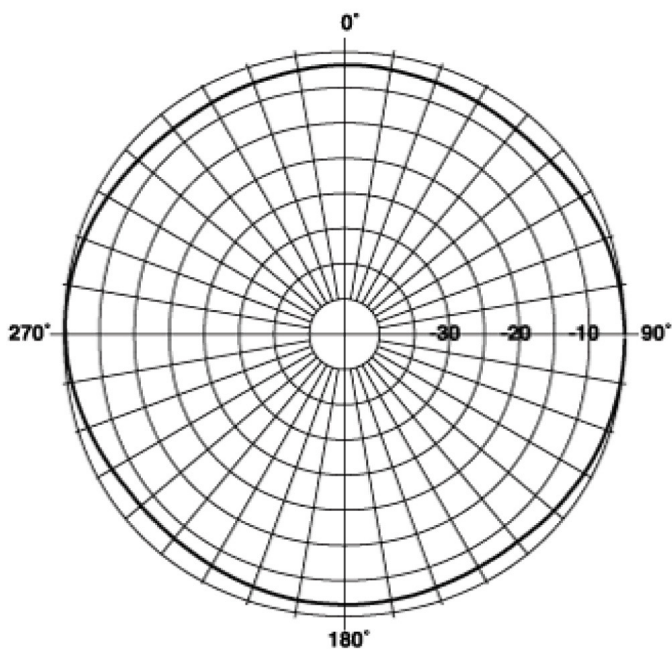
ANTENNA MODEL NUMBER	MOUNTING HARDWARE	SHIPPING WEIGHT
BPS10S-O-B1	B1 Bracket Included	<p>Antenna and mounting hardware are shipped separately.</p> <p>Antenna Shipping Weight: 41.7 kg (92 lbs)</p> <p>Mounting Hardware Shipping Weight: 23.6 kg (52 lbs)</p>

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.

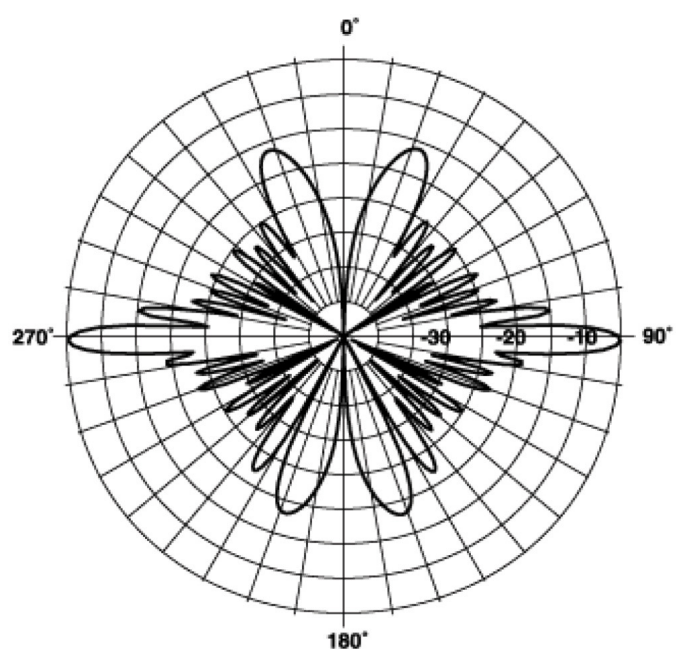
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ELECTRICAL SPECIFICATIONS

Frequency Range	MHz	746-806
Polarization	---	Vertical
Gain	dBi	12.1
Azimuth Pattern	---	OmniDirectional
Azimuth Beamwidth (3 dB)	degrees	360°
Elevation Beamwidth (3 dB)	degrees	5°
Electrical Downtilt	degrees	0.75°
Impedance	Ohms	50Ω
VSWR	---	< 1.5:1
Front-to-Back Ratio	dB	Omni
1st Null Fill	dB	Included
Null Fill	dB	Included
Maximum Effective Power Per Port	Watts	500 W



AZIMUTH PATTERN



ELEVATION PATTERN

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MECHANICAL SPECIFICATIONS

Length	mm (in)	4260 (167.7)
Diameter	mm (in)	168.3 (6.6)
Net Weight - Antenna Only	kg (lbs)	24 (53)
Net Weight - Mounting Hardware Only	kg (lbs)	22.7 (50)
Max Wind Loading Area	m ² (ft ²)	0.48 (5.2)
Survival Wind Speed / Rated Wind Speed	km/h (mph)	200 (125)
Connector Type	---	(1x) 7/16 Female at Bottom
Radiating Element Material	---	Aluminum
Element Housing Material	---	Fiberglass
Lightning Protection	---	Top Rod Grounded to Base Mount
Shipping Dimensions Length x Width x Height	mm (in)	4572 x 356 x 330 (180 x 14 x 13)
Shipping Weight Antenna and mounting hardware are shipped separately.	Antenna Shipping Weight	kg (lbs) 41.7 (92)
	Mounting Hardware Shipping Weight	kg (lbs) 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

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