



**BPS10-D-B1**

Penetrator™ Antenna, 746-806, 16.4dBi, 120deg

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.

**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.



**Technical features**

**ELECTRICAL SPECIFICATIONS**

<b>Horizontal Pattern</b>		Directional	
<b>Frequency Range</b>	MHz	746 - 806	
<b>Horizontal Beamwidth</b>	deg	120	
<b>Electrical Downtilt</b>	deg	0.75	
<b>Gain</b>	dBi (dBd)	16.4	14.3
<b>Vertical Beamwidth</b>	deg	5	
<b>1st Null Fill</b>	dB	Included	
<b>Null Fill</b>	dB	Included	
<b>Front-To-Back Ratio</b>	dB	15	
<b>Polarization</b>		Vertical	
<b>VSWR</b>		< 1.5:1	
<b>Bandwidth for 1.5:1 VSWR</b>	MHz	< 1.5:1	
<b>Impedance</b>	Ohms	50	
<b>Maximum Power Input</b>	W	500	
<b>Lightning Protection</b>		Top Rod Grounded to Base Mount	

**GENERAL SPECIFICATIONS**

<b>Antenna Type</b>		Penetrator
---------------------	--	------------



**BPS10-D-B1**

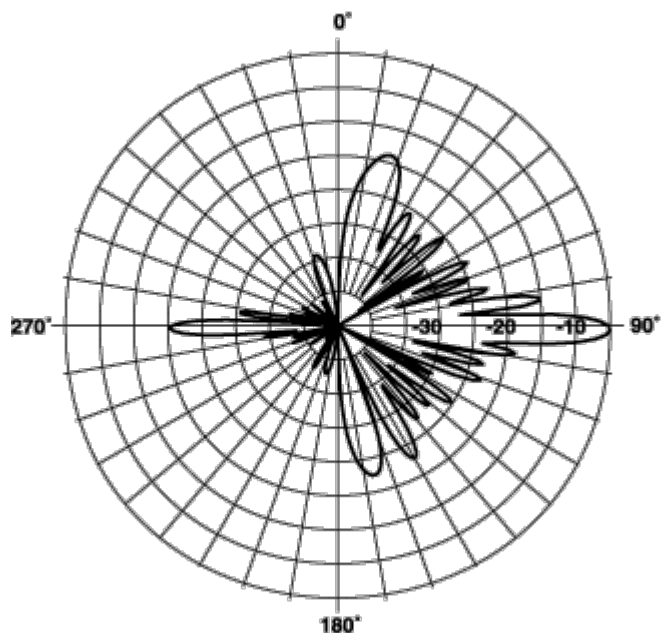
Penetrator™ Antenna, 746-806, 16.4dBi, 120deg

**MECHANICAL SPECIFICATIONS**

Connector Type		N Female
Connector Location		Bottom
Weight	kg (lb)	26 (57)
Weight with B1 Bracket	kg (lb)	40 (89)
Mount Type		Bracket
Mounting Hardware		B1 Bracket (included)
Rated Wind Speed	km/h (mph)	200 (125)
Overall Length	m (ft)	4.26 (14)
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 <sup>2</sup> (ft <sup>2</sup> )	0.480 (5.2)
Survival Wind Speed	km/h (mph)	200 (125)

**PACKAGING INFORMATION**

Shipping Weight	kg (lb)	38.7 (85)
-----------------	---------	-----------

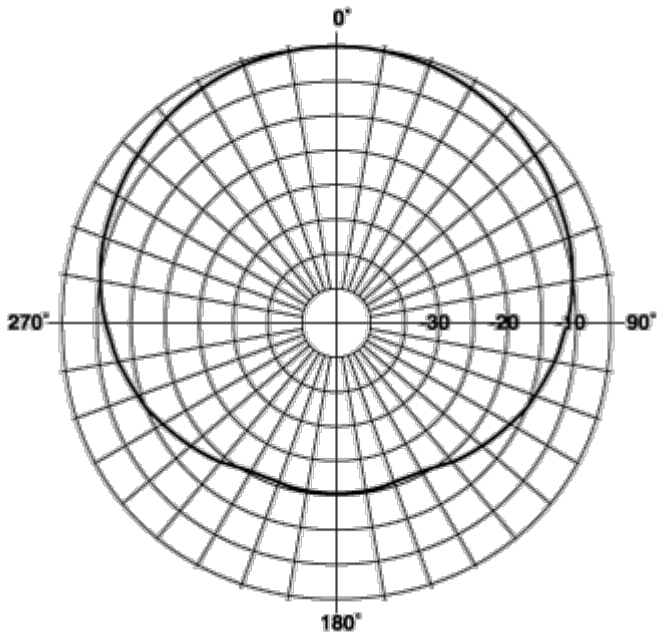


Vertical Pattern



**BPS10-D-B1**

Penetrator™ Antenna, 746-806, 16.4dBi, 120deg



Horizontal Pattern

[External Document Links](#)

[Notes](#)