

# Directional Panel Antennas

746-960 MHz

BPA7496 GYfYg



The BPA series panel antennas provide excellent gain with a range of directional radiation patterns, ideal for coverage requirements in “corridor” and sectorised applications. These panel antennas are fully enclosed to aid installation, provide waterproofing, and to resist bird attack. The main lobe of these antennas is strong, offering excellent beam control, upper side lobe suppression and front to back ratio, ensuring the integrity of the pattern.

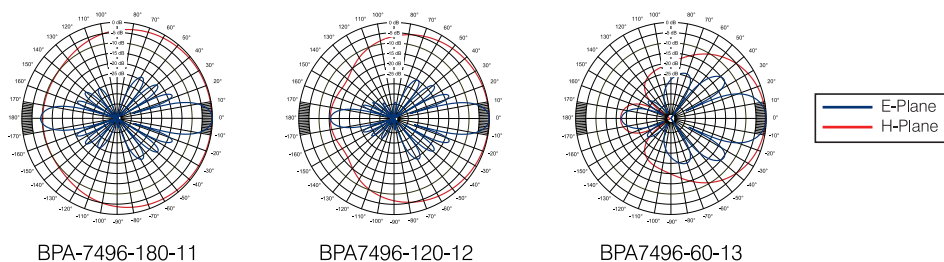
Proven design and construction techniques provide not only excellent radiation characteristics but also high levels of intermodulation and noise suppression. IM performance is -150dBc based on a two-carrier test. The antenna rests at ground potential and offers excellent lightning protection and reduced precipitation noise.

## Features:

- Analogue and digital technology compatible
- Choice of 60° 120° or 180° beamwidth models
- Industry leading PIM ratings (-150dBc) providing low IM and low noise characteristics
- 25kW Peak instantaneous (PIP) rating
- Convenient mounting style suits various pole, mount and wall installation locations
- Manually adjustable electrical tilt (MET)
- DC grounded for superior lightning protection



## Radiation Patterns



## Electrical Specifications

Model Number	BPA7496-180-11-P	BPA7496-120-12-P	BPA7496-60-13-P
Nominal Gain dBi (dBd)	11 (9)	12 (10)	13 (11)
Frequency MHz	740-960		
Tuned Bandwidth MHz	Entire Band		
Polarity	Vertical		
VSWR (Return Loss)	<1.5:1 (14dB)		
Nominal Impedance Ω	50		
Downtilt	2° to 16° adjustable		
Vertical Beamwidth°	13	14	25
Horizontal Beamwidth°	170±10	120±10	60±5
Upper Side Lobe Suppression dB	<-16		
Front to back Ratio dB	≥7	≥12	≥24
Input Power W	500		
Passive IM 3rd order dBc	<-150		
Peak Instantaneous Power kW	25		

## Mechanical Specifications

Model Number	BPA7496-180-11-P	BPA7496-120-12-P	BPA7496-60-13-P
Construction	Fully enclosed in radome		
Length x Width x Depth mm (inches)	1525 x 265 x 145 (60 x 10.4 x 6)		900 x 265 x 145 (35.4 x 10.4 x 6)
Weight kg (lbs)	8 (17)		5 (11)
Weight (Packed) kg (lbs)	16 (35)		13 (29)
Termination	1 x ( " !%\$ female		
Clamps (Provided)	Adjustable mechanical downtilt stle (0-8°)		
Clamps Diameter mm (in)	Ø70 to Ø120 (Ø2.8 to Ø4.7)		
Wind Load @ 150km/h N Frontal/Lateral/Rearside	438/240/438		258/141/258
Max. Wind Velocity km/h	210		210