Directional Panel Antennas

380-430 MHz

BPA3843

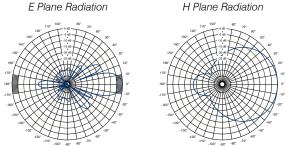


The BPA series panel antennas provide excellent gain with a range of directional radiation patterns, ideal for coverage requirements in "corridor" and sectorised applications. These panel antennas are fully enclosed to aid installation, provide waterproofing, and to resist bird attack. The main lobe 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
- Ideal for highly populated sites requiring "corridor" or sectorised coverage
- Industry leading PIM ratings (-150dBc) providing low IM and low noise characteristics for optimum performance
- Convenient mounting style suits various pole, mount and wall installation locations
- Mechanical tilt mounting brackets supplied
- DC grounded for superior lightning protection.



Electrical Specifications

Model Number	BPA3843-65-14	BPA3843-65-8
Nominal Gain dBd (dBi)	14 (12)	8 (6)
Frequency MHz	380-430	
Tuned Bandwidth MHz	Entire Band	
Polarity	Vertical	
VSWR (Return Loss)	<1.5:1 (14dB)	
Nominal Impedance Ω	50	
Vertical Beamwidth°	18	65
Horizontal Beamwidth°	65	
Upper Side Lobe Suppression dB	<-15	-
Front to back Ratio dB	≥23	≥16
Input Power W	500	
Passive IM 3rd order dBc	<-150	
Peak Instantaneous Power kW	25	

Mechanical Specifications

Model Number	BPA3843-65-14	BPA3843-65-8
Construction	Fully enclosed in radome	
Length x Width x Depth mm (in)	1525 x 265 x 145 (60 x 10.4 x 6)	700 x 560 x 200 (27.5 x 22 x 8)
Weight kg (lbs)	22 (48.4)	13 (29)
Weight (Packed) kg (lbs)	26 (57.4)	16 (35)
Termination	1 x DIN female	
Clamps (Provided)	Adjustable mechanical downtilt style (0-8°)	
Clamp Diameter mm (in)	Ø70 to Ø120 (Ø2.76 to Ø4.72)	

