

## Horizontally Polarized Omnidirectional Base Station Platform



PCTEL's BOAH horizontally polarized omnidirectional antennas are designed for long-lasting operation with outdoor 802.11 ac access points. Their rugged design withstands harsh environments, making the antennas ideal for industrial wireless, enterprise, and military applications. The antennas in this series are DC grounded for ESD protection of radio components.

### Features

- UV-stable, white ruggedized plastic radome
- Chrome plated mounting base
- DC grounded design
- Fully sealed IP67 design
- Type N Male or Female connector options
- Wind rated 125 mph
- Temperature -40°C to +85°C



BOAH515905NF

### STANDARD CONFIGURATION

Model	Connector	Mount Options
BOAH515905NM	N Male	BAM1009 or BAM1011-HCA mast mounts sold separately (all models)
BOAH515905NF	N Female	
BOAH242505NF	N Female	
BOAH242505NM	N Male	

### ELECTRICAL SPECIFICATIONS - RF ANTENNA

Model	Frequency Range	Polarization	Nominal Gain	VSWR	Elevation Half Power Beamwidth	Maximum Power	Nominal Impedance
BOAH515905NM	5.1-5.9 GHz	Horizontal	5 dBi	< 2:1	30°	40 watts	50 ohms
BOAH515905NF	5.1-5.9 GHz	Horizontal	5 dBi	< 2:1	30°	40 watts	50 ohms
BOAH242505NF	2.4-2.5 GHz	Horizontal	5 dBi	< 2:1	30°	40 watts	50 ohms
BOAH242505NM	2.4-2.5 GHz	Horizontal	5 dBi	< 2:1	30°	40 watts	50 ohms

### MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Model	Dimensions	Weight	Housing Material
BOAH515905NM	1.26 OD x 6.32 L in (3.20 x 16.05 cm)	4 oz	White UV-stable ASA
BOAH515905NF	1.26 OD x 6.55 L in (3.20 x 16.63 cm)	4 oz	White UV-stable ASA
BOAH242505NF	1.26 OD x 12.85 L in (2.41 x 32.63 cm)	6 oz	White UV-stable ASA
BOAH242505NM	1.26 OD x 12.62 L in (3.20 x 32.05 cm)	6 oz	White UV-stable ASA

### MECHANICAL & ENVIRONMENTAL SPECIFICATIONS, continued

Model	Bending Moment at Rated Wind	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area
BOAH515905NM	0.57 lbf-ft	2.1 lbf	0.029 ft <sup>2</sup>
BOAH515905NF	0.57 lbf-ft	2.1 lbf	0.030 ft <sup>2</sup>
BOAH242505NF	2.7 lbf-ft	5.0 lbf	0.064 ft <sup>2</sup>
BOAH242505NM	2.7 lbf-ft	5.0 lbf	0.062 ft <sup>2</sup>