PCTEL Carrier Grade VHF/UHF Omnidirectional Base Station Antennas

The BOA VHF/UHF omnidirectional base station antenna series consist of a linear array, encapsulated in a heavy duty fiberglass radome with a thick walled 6061-T6 aluminum mounting base for reliable long term use. The rugged design allows the BOA series to withstand harsh environments and is ideal for Industrial Wireless applications. The series is DC grounded and is UPS shippable.

Features

- UV Stable Light Gray Fiberglass Radome
- Hard-Coat Anodized Mounting Base
- Galvanized Mounting Hardware
- · Removable Drain Plug for Upright or Inverted Mounting



BOA4357 antenna (left); Bottom view (top right); BAM1005 mount (bottom left); MMK5 mount (bottom right)







RF/Electrical Specifications

Model	Frequency Range	Nominal Gain	Return Loss	SWR	E-Plane Beamwidth
BOA2175	215-225 MHz	5 dBi/3 dBd	>10 dB	<2.0	18°
BOA2177	217-222 MHz	7.1 dBi/5 dBd	>10 dB	<2.0	18°
BOA4409	440-460 MHz	9.1 dBi/7 dBd	>12 dB	<1.7	11°
BOA4357	430-470MHz	7.1 dBi/5 dBd	>12 dB	<1.7	18°

Mechanical Specifications

Model	Weight (Mass)	Height	Bending Moment at Rated Wind	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area
BOA2175	10 lbs	122"	685 ft-lbs	74 lbs	1.7 ft ²
BOA2177	12 lbs	151"	965 ft-lbs	88 lbs	2.10 ft ²
BOA4409	12 lbs	151"	965 ft-lbs	88 lbs	2.10 ft ²
BOA4357	7.0 lbs	83"	250 ft-lbs	45 lbs	1.125 ft ²

Technical Data

Maximum P 250 watts	ower:
Nominal Im 50 ohms	pedance:
Radome Ma Pultruded Diameter)	terial: Fiberglass (2" Outside
ESD Protect DC ground	
Rated Wind 125 mph	:
Termination N female	••
Mounting H BAM1005	ardware: or MMK5 (Included)