

Fiberglass Base Station (MFB) Omni-directional Antennas

PCTEL's wireless broadband omni-directional antennas are designed to provide maximum performance and reliability under the toughest weather conditions. The antennas feature a UV stable, vented radome that provides ultimate protection against weather elements. They can be mast or wall mounted.

Features

- UV stable, pultruded fiberglass radome. Allows outdoor installation even in harsh climates.
- Vented system design provides reliable performance by protecting the electrical design against extreme moisture and/or temperatures.
- Thread relief on connector. Improved accessibility for taping reduces installation time and improves overall effectiveness.
- Internal o-ring seal in the base of the antenna with integrated connector at the base. Assures a watertight seal to prevent water from migrating into the antenna connector.
- Electrical downtilt options on select models, provide system planners flexibility in challenging operating environments.



MFB49009



Vented System



MMK8A



BAM1009

Technical Data

Maximum Power: 25 watts
Polarization: Vertical
Normal Impedance: 50 ohms
VSWR: < 1.7 (maximum) < 1.5 (typical)
Radome Material: UV resistant pultruded fiberglass
ESD Protection: Some models available with DC grounding. Contact customer service for more details.
Termination: N female
Mounting Base Diameter: 1.25-inches
Mounting Method: MMK8A - Aluminum extruded bracket for mast mounting BAM1009



RF/Electrical Specifications

Model	Frequency Range	Gain	Bandwidth	Vertical Beamwidth @ ½ Power
MFB24004	2.4-2.5 GHz	4 dBi	100 MHz	30°
MFB24006	2.4-2.5 GHz	6 dBi	100 MHz	20°
MFB24008	2.4-2.5 GHz	8 dBi	100 MHz	13°
MFB24010	2.4-2.5 GHz	10 dBi	100 MHz	9°
MFB49009	4.9-5.0 GHz	9 dBi	100 MHz	8°
MFB58010	5.725-5.825 GHz	10 dBi	100 MHz	6°

Mechanical Specifications

Model	Height	Weight (Mass)	Bending Moment at Rated Wind	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area	Wind Survival
MFB24004	9.5 in (24.1 cm)	0.34 lbs (0.154 kg)	0.55 ft-lbs	1.54 lbs	.02 sq ft	125 mph
MFB24006	13.5 in (34.3 cm)	0.38 lbs (0.172 kg)	1.1 ft-lbs	2.11 lbs	.04 sq ft	125 mph
MFB24008	21.5 in (54.6 cm)	0.50 lbs (0.226 kg)	3.32 ft-lbs	3.89 lbs	.06 sq ft	125 mph
MFB24010	36.4 in (92.5 cm)	0.65 lbs (0.295 kg)	14.7 ft-lbs	10.1 lbs	.11 sq ft	125 mph
MFB49009	21.5 in (54.6 cm)	0.50 lbs (0.226 kg)	25.32 ft-lbs	14.47 lbs	.06 sq ft	125 mph
MFB58010	47 in (119.4 cm)	0.50 lbs (0.226 kg)	25.32 ft-lbs	14.47 lbs	.06 sq ft	125 mph

