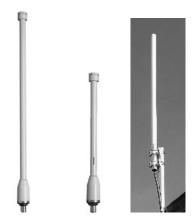
## Fiberglass Omnidirectional Antennas



MFB49009 MFB58009 MFB24012



Vented System





MFB24004 with MMK11



MMK12

# White MAXRAD Fiberglass Base Station (MFB) Omnidirectional Antennas

The wireless broadband omnidirectional antennas are designed to provide maximum performance and reliability under the toughest weather conditions. These 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 (all models except MFB24012). Provides reliable performance by protecting the electrical design against extreme moisture and/or temperatures.
- Thread relief on connector (all models, except MFB24012 which has a pigtail). 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 (all models, except MFB24012 which has a pigtail).
- Electrical downtilt options on select models. Provide system planners flexibility in challenging operating environments.

## MAXRAD

### Technical Data

Maximum Power: 25 watts Polarization: Vertical

Normal Impedance: 50 ohms

**VSWR:** < 1.5:1

Radome Material: UV resistant pultruded fiberglass

### Lightning Protection:

Not standard, but all models can be ordered with DC grounding. Add "DC" to the part number to order the antenna with DC grounding.

#### Termination:

N female (except MFB24012).

N male connector option available. To order, add "NM" to part number.

N female, reverse polarity and reverse threaded connectors optional on most models. 16" RG-213 pigtail with N female connector (for model MFB24012 only.)

#### Mounting Base Diameter:

1.25 inches (all models except MFB24012)

1.5 inches (model MFB24012)

#### Mounting Method:

MMK1924 — L bracket mount for wall or pipe mount (except MFB24010 and MFB24012)

MMK8A - Aluminum extruded bracket for mast mounting (except model MFB24012)

MMK11 - Ceiling mount bracket (for MFB24004, MFB24006 and MFB24008 only)

MMK12 - Heavy duty bracket for mast mounting the MFB24012

MMK14 - Light duty mounting clamp for MFB24012

For detailed specifications, visit http://antenna.pctel.com.

# **Antenna Electrical Specifications**

Model	Frequency Range	Gain	Bandwidth @ 1.5:1 VSWR	Vertical Beamwidth
MFB19008A	1850-1990 MHz	8 dBi	140 MHz	12°
MFB24004	2400-2483.5 MHz	4 dBi	100 MHz	30°
MFB24006	2400-2483.5 MHz	6 dBi	100 MHz	20°
MFB24008	2400-2483.5 MHz	8 dBi	100 MHz	13°
MFB24008DT7	2400-2483.5 MHz	8 dBi	100 MHz	13°
MFB24008DT12	2400-2483.5 MHz	8 dBi	100 MHz	13°
MFB24010	2400-2483.5 MHz	10 dBi	100 MHz	9°
MFB24012	2400-2500 MHz	12 dBi	100 MHz	7°
MFB49009	4.9-5.0 GHz	9 dBi	100 MHz	8°
MFB51510	5.15-5.35 GHz	10 dBi	200 MHz	<b>7</b> °
MFB58009	5.725-5.875 GHz	9 dBi	150 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
MFB19008A	24.0" (609.6 mm)	0.70 lbs (0.318 kg)	5.7 ft-lbs	5.9 lbs	.07 ft <sup>2</sup>	125 mph
MFB24004	8.1" (205.7 mm)	0.34 lbs (0.154 kg)	0.7 ft-lbs	2.1 lbs	.02 ft <sup>2</sup>	125 mph
MFB24006	11.6" (294.6 mm)	0.38 lbs (0.172 kg)	1.4 ft-lbs	3.0 lbs	.04 ft <sup>2</sup>	125 mph
MFB24008	20.2" (513.1 mm)	0.50 lbs (0.226 kg)	4.4 ft-lbs	5.2 lbs	.06 ft <sup>2</sup>	125 mph
MFB24008DT7	20.2" (513.1 mm)	0.50 lbs (0.226 kg)	4.4 ft-lbs	5.2 lbs	.06 ft <sup>2</sup>	125 mph
MFB24008DT12	20.2" (513.1 mm)	0.50 lbs (0.226 kg)	4.4 ft-lbs	5.2 lbs	.06 ft <sup>2</sup>	125 mph
MFB24010	36.0" (914.4 mm)	0.65 lbs (0.295 kg)	14.7 ft-lbs	10.1 lbs	.11 ft²	125 mph
MFB24012	44.0" (1,118 mm)	3.00 lbs (1.400 kg)	41 ft-lbs	22.4 lbs	.25 ft <sup>2</sup>	125 mph
MFB49009	20.2" (513.1 mm)	0.5 lbs (0.226 kg)	4.4 ft-lbs	5.2 lbs	.06 ft <sup>2</sup>	125 mph
MFB51510	20.2" (513.1 mm)	0.5 lbs (0.226 kg)	4.4 ft-lbs	5.2 lbs	.06 ft <sup>2</sup>	125 mph
MFB58009	15.7" (398.8 mm)	0.43 lbs (0.195 kg)	2.7 ft-lbs	4.1 lbs	.046 ft <sup>2</sup>	125 mph
MFB58010	20.2" (513.1 mm)	0.5 lbs (0.226 kg)	4.4 ft-lbs	5.2 lbs	.06 ft <sup>2</sup>	125 mph