



MFB49009



MFB58009



Vented System



MMK1924



MMK8A

## 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. 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.



### Technical Data

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| Maximum Power: 25 watts  |
| Polarization: Vertical   |
| Nominal Impedance: 50 ohms   |
| VSWR: < 1.5:1  |
| Radome Material: UV resistant pultruded fiberglass   |
| ESD Protection:<br>Not standard, but all models can be ordered with DC grounding.<br>Add "DC" to the part number to order the antenna with DC grounding. |
| Termination: N female  |
| Mounting Base Diameter:<br>1.25 inches   |
| Mounting Method:<br>MMK1924 - L bracket mount for wall or pipe mount<br>MMK8A - Aluminum extruded bracket for mast mounting                              |

## Antenna Electrical Specifications

| Model    | Frequency Range | Gain   | Bandwidth<br>@ 1.5:1 VSWR | Vertical Beamwidth<br>@ 1/2 Power |
|----------|-----------------|--------|---------------------------|-----------------------------------|
| MFB25007 | 2.5-2.7 GHz     | 7 dBi  | 200 MHz                   | 13°                               |
| MFB49009 | 4.9-5.0 GHz     | 9 dBi  | 100 MHz                   | 8°                                |
| MFB51510 | 5.15-5.35 GHz   | 10 dBi | 200 MHz                   | 7°                                |
| MFB58009 | 5.725-5.875 GHz | 9 dBi  | 150 MHz                   | 8°                                |

## Mechanical Specifications

| Model    | Height         | Weight (Mass)       | Bending Moment<br>at Rated Wind | Lateral Thrust<br>at Rated Wind | Equivalent Flat<br>Plate Area | Wind<br>Survival |
|----------|----------------|---------------------|---------------------------------|---------------------------------|-------------------------------|------------------|
| MFB25007 | 20.2" (513 mm) | 0.5 lbs (0.226 kg)  | 4.4 ft-lbs                      | 5.2 lbs                         | .06 ft <sup>2</sup>           | 125 mph          |
| MFB49009 | 20.2" (513 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 mm) | 0.5 lbs (0.226 kg)  | 4.4 ft-lbs                      | 5.2 lbs                         | .06 ft <sup>2</sup>           | 125 mph          |
| MFB58009 | 15.7" (399 mm) | 0.43 lbs (0.195 kg) | 2.7 ft-lbs                      | 4.1 lbs                         | .046 ft <sup>2</sup>          | 125 mph          |