

# Fiberglass Base Station (MFB) Omnidirectional Antennas

These wireless broadband omnidirectional 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 (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.



MFB49009 MFB58009 MFB24012



Vented System



## Technical Data

Maximum Power: 25 watts
Polarization: Vertical
Normal Impedance: 50 ohms
VSWR: <ul style="list-style-type: none"> <li>&lt; 2.0:1 (for MFB23009 and MFB25009 models only)</li> <li>&lt; 1.6:1 (for DC grounded models)</li> <li>&lt; 1.5:1 (all other models)</li> </ul>
Radome Material: UV resistant pultruded fiberglass
ESD Protection: Some models available with DC grounding. Contact factory for more details.
Termination: <ul style="list-style-type: none"> <li>N female</li> <li>16" RG-213 pigtail with N female connector (for model MFB24012 only.)</li> </ul>
Mounting Base Diameter: <ul style="list-style-type: none"> <li>1.25 inches (all models except MFB24012)</li> <li>1.5 inches (model MFB24012)</li> </ul>
Mounting Method: <ul style="list-style-type: none"> <li>MMK1924 — L bracket mount for wall or pipe mount (except MFB24010 and MFB24012)</li> <li>MMK8A - Aluminum extruded bracket for mast mounting (except model MFB24012)</li> <li>MMK14 - Light duty mounting clamp for MFB24012</li> </ul>



MMK1924



MMK8A

### RF/Electrical Specifications

Model	Frequency Range	Gain	Bandwidth @ 1.5:1 VSWR	Vertical Beamwidth @ 1/2 Power
MFB19006A	1.85-1.99 GHz	6 dBi	140 MHz	24°
MFB19008A	1.85-1.99 GHz	8 dBi	140 MHz	12°
MFB23009	2.3-2.5 GHz	9 dBi	200 MHz	9°
MFB24004	2.4-2.484 GHz	4 dBi	100 MHz	30°
MFB24006	2.4-2.484 GHz	6 dBi	100 MHz	20°
MFB24008	2.4-2.484 GHz	8 dBi	100 MHz	13°
MFB24008NM	2.4-2.484 GHz	8 dBi	100 MHz	13°
MFB24008NMDC	2.4-2.484 GHz	8 dBi	100 MHz	13°
MFB24008RPN	2.4-2.484 GHz	8 dBi	100 MHz	13°
MFB24008DT7	2.4-2.484 GHz	8 dBi	100 MHz	13°
MFB24008DT12	2.4-2.484 GHz	8 dBi	100 MHz	13°
MFB24010	2.4-2.484 GHz	10 dBi	100 MHz	9°
MFB24012	2.4-2.5 GHz	12 dBi	100 MHz	7°
MFB25007	2.5-2.7 GHz	7 dBi	200 MHz	13°
MFB25009	2.5-2.7 GHz	9 dBi	200 MHz	9°
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°
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
MFB19006A	11.6" (295 mm)	0.38 lbs (0.172 kg)	1.4 ft-lbs	3.0 lbs	.04 ft <sup>2</sup>	125 mph
MFB19008A	24.0" (601 mm)	0.70 lbs (0.318 kg)	5.7 ft-lbs	5.9 lbs	.07 ft <sup>2</sup>	125 mph
MFB23009	30" (762 mm)	0.65 lbs (0.295 kg)	14.7 ft-lbs	10.1 lbs	.11 ft <sup>2</sup>	125 mph
MFB24004	8.1" (206 mm)	0.34 lbs (0.154 kg)	0.7 ft-lbs	2.1 lbs	.02 ft <sup>2</sup>	125 mph
MFB24006	11.6" (295 mm)	0.38 lbs (0.172 kg)	1.4 ft-lbs	3.0 lbs	.04 ft <sup>2</sup>	125 mph
MFB24008	20.2" (513mm)	0.50 lbs (0.226 kg)	4.4 ft-lbs	5.2 lbs	.06 ft <sup>2</sup>	125 mph
MFB24008NM	20.2" (513mm)	0.50 lbs (0.226 kg)	4.4 ft-lbs	5.2 lbs	.06 ft <sup>2</sup>	125 mph
MFB24008NMDC	20.2" (513mm)	0.50 lbs (0.226 kg)	4.4 ft-lbs	5.2 lbs	.06 ft <sup>2</sup>	125 mph
MFB24008RPN	20.2" (513mm)	0.50 lbs (0.226 kg)	4.4 ft-lbs	5.2 lbs	.06 ft <sup>2</sup>	125 mph
MFB24008DT7	20.2" (513 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 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 mm)	0.65 lbs (0.295 kg)	14.7 ft-lbs	10.1 lbs	.11 ft <sup>2</sup>	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
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
MFB25009	30" (762 mm)	0.65 lbs (0.295 kg)	14.7 ft-lbs	10.1 lbs	.11 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
MFB58010	20.2" (513 mm)	0.5 lbs (0.226 kg)	4.4 ft-lbs	5.2 lbs	.06 ft <sup>2</sup>	125 mph