

# 800/900 MHz MAXRAD Fiberglass Base Station (MFB) Omnidirectional Antennas

The MFB 900/800 MHz series are base matched half wave antennas encapsulated in heavy duty fiberglass radomes with a thick walled aluminum mounting base for reliable long term use. All models are DC grounded and UPS shippable.

### Features

- White ultra-violet resistant pultruded fiberglass radome
- Thick walled aluminum mounting base
- Unity/3 dB/5 dB/7 dB models
- UPS shippable
- Factory tuned



MFB9155



### Technical Data

<b>Maximum Power:</b> 150 watts
<b>Normal Impedance:</b> 50 ohms
<b>Radome Material:</b> 1.0" OD pultruded white fiberglass
<b>Radiator Material:</b> Coated steel wire
<b>ESD Protection:</b> DC grounded
<b>Wind Survival:</b> 100 mph
<b>Termination:</b> Unity and 3 dB models, N Female
<b>Mounting Base Diameter:</b> 1-5/16"
<b>Mounting Method:</b> Mast or wall mounted. Mounting hardware is sold separately. MMK1: light duty mast mount for antennas under 30" MMK3: light duty mast mount for antennas over 30" MMK4: heavy duty mast mount MMK9: Aluminum mast mount for 1-5/16" OD antennas MBSWM: wall mounting bracket for antennas over 30" (two are required) MMK12: heavy duty mount bracket



MMK3



MMK1



MMK4



MMK9



MBSWM



MMK12

### RF/Electrical Specifications

Model	Frequency Range	Factory Tuned Frequency	Gain	Bandwidth @ 1.5:1 VSWR	Vertical Beamwidth @ 1/2 Power
MFB8133	806-866 MHz	813 MHz	3 dB	30 MHz	40°
MFB8135	806-866 MHz	813 MHz	5 dB	20 MHz	22°
MFB8583	806-866 MHz	858 MHz	3 dB	30 MHz	40°
MFB8585	806-866 MHz	858 MHz	5 dB	20 MHz	22°
MFB8353	824-896 MHz	835 MHz	3 dB	30 MHz	40°
MFBW8903	890-960 MHz	N/A	3 dB	70 MHz	40°
MFBW8905	890-960 MHz	N/A	5 dB	70 MHz	22°
MFB8963	896-940 MHz	898 MHz	3 dB	30 MHz	40°
MFB8965(NF)	896-940 MHz	898 MHz	5 dB	20 MHz	22°
MFB9387	896-940 MHz	938 MHz	7 dB	20 MHz	17°
MFB8967(NF)	896-940 MHz	898 MHz	7 dB	20 MHz	17°
MFB9153	902-928 MHz	915 MHz	3 dB	20 MHz	40°
MFB9155(NF)	902-928 MHz	915 MHz	5 dB	20 MHz	22°
MFB9157(NF)	902-928 MHz	915 MHz	7 dB	20 MHz	17°

### Mechanical Specifications

Model	Height	Weight (Mass)	Bending Moment at Rated Wind	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area
MFB8133	26"	1.25 lbs	4.7 ft-lbs	4.3 lbs	.12 sq ft
MFB8135	48"	1.75 lbs	14.2 ft-lbs	8.0 lbs	.22 sq ft
MFB8583	26"	1.25 lbs	4.7 ft-lbs	4.3 lbs	.12 sq ft
MFB8585	48"	1.75 lbs	14.2 ft-lbs	8.0 lbs	.22 sq ft
MFB8353	26"	1.25 lbs	4.7 ft-lbs	4.3 lbs	.12 sq ft
MFBW8903	23"	1.25 lbs	4.7 ft-lbs	4.3 lbs	.12 sq ft
MFBW8905	48"	1.75 lbs	14.2 ft-lbs	8.0 lbs	.22 sq ft
MFB8963	26"	1.25 lbs	4.7 ft-lbs	4.3 lbs	.12 sq ft
MFB8965	48"	1.75 lbs	14.2 ft-lbs	8.0 lbs	.22 sq ft
MFB9387	96"	4.00 lbs	62.5 ft-lbs	15.8 lbs	.44 sq ft
MFB8967	96"	4.00 lbs	62.5 ft-lbs	15.8 lbs	.44 sq ft
MFB9153	23.25"	1.25 lbs	4.7 ft-lbs	4.3 lbs	.12 sq ft
MFB9155(NF)	48"	1.75 lbs	14.2 ft-lbs	8.0 lbs	.22 sq ft
MFB9157 (NF)	96"	4.00 lbs	62.5 ft-lbs	15.8 lbs	.44 sq ft