

## 900 MHz Omnidirectional Fiberglass Base Station Antenna Series

The MFB 900 MHz omnidirectional antennas are base matched, half wave antenna encapsulated in a heavy duty fiberglass radome with a thick walled aluminum mounting base for reliable long term use. All models are DC grounded.

### General Specifications:

900 MHz fiberglass omnidirectional antenna series

### Radome Material:

.65" pultruded white fiberglass

### Polarization:

Vertical

### Lightning Protection:

DC grounded

### Nominal Impedance:

50 Ohms

### Mounting Method:

(sold separately)

MMK1 light duty mast mount for antennas under 30" tall

MMK3 light duty mast mount for antennas over 30" tall

MMK4 heavy duty mast mount

MMK6 cast mount bracket

MBSWM wall mount bracket for antennas over 30" tall (two are required)

### Mounting Base Diameter:

1-5/16"

### Termination:

N female - unity and 3 dB models

N male with 16" jumper - 5 dB and 7dB models

Reverse Polarity TNC - models ending in RPC

### Features and Benefits:

- White UV resistant pultruded fiberglass radome. Protects the antenna from the elements.
- Thick walled aluminum mounting base. Helps prevent oscillation that could affect the quality of the transmission.
- Available in various gain configurations to fit various application requirements.
- Wideband models available covering all 890-960 MHz bands, without additional tuning required.



The MFB 900 MHz omnidirectional antennas are encapsulated in a heavy-duty fiberglass radome for reliable, long term performance under the toughest weather conditions.



MMK1 Mount



MMK3 Mount



MMK4 Mount



MMK6 Mount

# Specifications

## Electrical Specifications

Model #	Frequency Range	Factory Tuned Frequency	Gain	Bandwidth @ 1.5:1 VSWR	Vertical Beamwidth @ 1/2 Power	Maximum Power
MFB8960	896-940 MHz	898 MHz	Unity	40 MHz	75°	150 Watts
MFB9150	902-928 MHz	915 MHz	Unity	20 MHz	75°	150 Watts
MFB9300	928-932 MHz	930 MHz	Unity	5 MHz	75°	150 Watts
MFB9380	896-940 MHz	938 MHz	Unity	40 MHz	75°	150 Watts
MFB8963	896-940 MHz	898 MHz	3 dB	30 MHz	40°	150 Watts
MFB9153	902-928 MHz	915 MHz	3 dB	20 MHz	40°	150 Watts
MFB9303	928-932 MHz	930 MHz	3 dB	5 MHz	40°	150 Watts
MFB9383	896-940 MHz	938 MHz	3 dB	30 MHz	40°	150 Watts
MFB8965	896-940 MHz	898 MHz	5 dB	20 MHz	22°	150 Watts
MFB9155	902-928 MHz	915 MHz	5 dB	20 MHz	22°	150 Watts
MFB9305	928-932 MHz	930 MHz	5 dB	5 MHz	22°	150 Watts
MFB9385	896-940 MHz	938 MHz	5 dB	20 MHz	22°	150 Watts
MFB8967	896-940 MHz	898 MHz	7 dB	20 MHz	17°	150 Watts
MFB9157	902-928 MHz	915 MHz	7 dB	20 MHz	17°	150 Watts
MFB9307	928-932 MHz	930 MHz	7 dB	5 MHz	17°	150 Watts
MFB9387	896-940 MHz	938 MHz	7 dB	20 MHz	17°	150 Watts
MFB9153RPC	902-928 MHz	915 MHz	3 dB	20 MHz	40°	150 Watts
MFB9153STRPC	902-928 MHz	915 MHz	3 dB	20 MHz	40°	150 Watts
MFB9157RPC	896-940 MHz	915 MHz	7 dB	20 MHz	17°	150 Watts
MFBW8903	890-960 MHz	925 MHz	3dB	70 MHz	40°	150 Watts
MFBW8905	890-960 MHz	925 MHz	5dB	70 MHz	22°	150 Watts

## Mechanical Specifications

Model #	Wind Survival	Lateral Thrust @ Rated Wind	Bending Moment @ Rated Wind	Height	Weight
MFB8960	100 mph	2.3 lbs	1.4 ft-lbs	14" (355.4 mm)	0.75 lbs (0.34 kg)
MFB9150	100 mph	2.3 lbs	1.4 ft-lbs	14" (355.4 mm)	0.75 lbs (0.34 kg)
MFB9300	100 mph	2.3 lbs	1.4 ft-lbs	14" (355.4 mm)	0.75 lbs (0.34 kg)
MFB9380	100 mph	2.3 lbs	1.4 ft-lbs	14" (355.4 mm)	0.75 lbs (0.34 kg)
MFB8963	100 mph	4.3 lbs	4.7 ft-lbs	26" (660.4 mm)	1.25 lbs (0.56 kg)
MFB9153	100 mph	4.3 lbs	4.7 ft-lbs	23" (590.5 mm)	1.25 lbs (0.56 kg)
MFB9303	100 mph	4.3 lbs	4.7 ft-lbs	26" (660.4 mm)	1.25 lbs (0.56 kg)
MFB9383	100 mph	4.3 lbs	4.7 ft-lbs	26" (660.4 mm)	1.25 lbs (0.56 kg)
MFB8965	100 mph	8.0 lbs	14.2 ft-lbs	48" (1219.2 mm)	1.75 lbs (0.79 kg)
MFB9155	100 mph	8.0 lbs	14.2 ft-lbs	48" (1219.2 mm)	1.75 lbs (0.79 kg)
MFB9305	100 mph	8.0 lbs	14.2 ft-lbs	48" (1219.2 mm)	1.75 lbs (0.79 kg)
MFB9385	100 mph	8.0 lbs	14.2 ft-lbs	48" (1219.2 mm)	1.75 lbs (0.79 kg)
MFB8967	100 mph	15.8 lbs	62.5 ft-lbs	96" (2438.4 mm)	4.00 lbs (1.81 kg)
MFB9157	100 mph	15.8 lbs	62.5 ft-lbs	96" (2438.4 mm)	4.00 lbs (1.81 kg)
MFB9307	100 mph	15.8 lbs	62.5 ft-lbs	96" (2438.4 mm)	4.00 lbs (1.81 kg)
MFB9387	100 mph	15.8 lbs	62.5 ft-lbs	96" (2438.4 mm)	4.00 lbs (1.81 kg)
MFB9153RPC	100 mph	4.3 lbs	4.7 ft-lbs	23" (590.5 mm)	1.25 lbs (0.56 kg)
MFB9153STRPC	100 mph	4.3 lbs	4.7 ft-lbs	23" (590.5 mm)	1.25 lbs (0.56 kg)
MFB9157RPC	100 mph	15.8 lbs	62.5 ft-lbs	96" (2438.4 mm)	4.00 lbs (1.81 kg)
MFBW8903	100 mph	4.3 lbs	4.7 ft-lbs	26" (660.4 mm)	1.25 lbs (0.56 kg)
MFBW8905	100 mph	8.0 lbs	14.2 ft-lbs	48" (1219.2 mm)	1.75 lbs (0.79 kg)