



900 MHz Omnis - MFB Series



900 MHz Omnidirectional Fiberglass Base Station Antenna Series

The MFB 900 MHz omnidirectional antennas 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.

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 3dB models N male with 16" jumper - 5dB and 7dB models Reverse Polarity TNC - Models ending in RPC

Features and Benefits:

- White ultra-violet 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. Page 13



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

				Vertical			
Model #	Frequency Range	Factory Tuned Frequency	Gain	Bandwidth @ 1.5:1 VSWR	Beamwidth	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	3dB	30 MHz	40°	150 Watts	
MFB9153	902-928 MHz	915 MHz	3dB	20 MHz	40°	150 Watts	
MFB9303	928-932 MHz	930 MHz	3dB	5 MHz	40°	150 Watts	
MFB9383	896-940 MHz	938 MHz	3dB	30 MHz	40°	150 Watts	
MFB8965	896-940 MHz	898 MHz	5dB	20 MHz	22 °	150 Watts	
MFB9155	902-928 MHz	915 MHz	5dB	20 MHz	22 °	150 Watts	
MFB9305	928-932 MHz	930 MHz	5dB	5 MHz	22 °	150 Watts	
MFB9385	896-940 MHz	938 MHz	5dB	20 MHz	22 °	150 Watts	
MFB8967	896-940 MHz	898 MHz	7dB	20 MHz	17°	150 Watts	
MFB9157	902-928 MHz	915 MHz	7dB	20 MHz	17°	150 Watts	
MFB9307	928-932 MHz	930 MHz	7dB	5 MHz	17°	150 Watts	
MFB9387	896-940 MHz	938 MHz	7dB	20 MHz	17°	150 Watts	
MFB9153RPC	902-928 MHz	915 MHz	3dB	20 MHz	40°	150 Watts	
MFB9153STRPC	902-928 MHz	915 MHz	3dB	20 MHz	40°	150 Watts	
MFB9157RPC	896-940 MHz	915 MHz	7dB	20 MHz	17°	150 Watts	

Mechanical Specifications

Model#	Wind Survival	Lateral Thrust Rated Wind	Bending Moment	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)

