

# PCTEL 800/900 MHz Fiberglass Base Station Omnidirectional Antennas



PCTEL's 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 UV-resistant pultruded fiberglass radome
- Thick-walled aluminum mounting base
- Unity, 3 dB, 5 dB, 7 dB models
- Temperature range -40°C to +85°C
- UPS shippable
- Factory tuned



MFB9153

### STANDARD CONFIGURATION

Model	Cable	Connector	Mount
MFBW7463	N/A	N Female	Mast or wall mounted. Mount options for all models: (sold separately) 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
MFB8133	N/A	N Female	
MFB8583	N/A	N Female	
MFB8965NF	2 ft RG213	N Female	
MFB9153	N/A	N Female	
MFB9155(NF)*	2 ft RG213	N Male	
MFB9157(NF)*	2 ft RG213	N Male	

### ELECTRICAL SPECIFICATIONS - RF ANTENNA

Model	Frequency Range	Gain	Elevation Half Power Beamwidth	Average Power	Nominal Impedance
MFBW7463	746-869 MHz	3 dB	40°	150 watts	50 ohms
MFB8133	806-866 MHz	3 dB	40°	150 watts	50 ohms
MFB8583	806-866 MHz	3 dB	40°	150 watts	50 ohms
MFB8965NF	896-940 MHz	5 dB	22°	150 watts	50 ohms
MFB9153	902-928 MHz	3 dB	40°	150 watts	50 ohms
MFB9155(NF)	902-928 MHz	5 dB	22°	150 watts	50 ohms
MFB9157(NF)	902-928 MHz	7 dB	17°	150 watts	50 ohms

### MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Model	Weight	Height	Bending Moment at Rated Wind (lbf)	Lateral Thrust at Rated Wind (lbf-ft)	Equivalent Flat Plate Area	Rated Wind
MFBW7463	1.50 lbs (0.68 kg)	27 in (68.5 cm)	16.9	13.5	.17 sq ft	125 mph
MFB8133	1.25 lbs (0.57 kg)	28 in (71.0 cm)	14.5	12.5	.12 sq ft	125 mph
MFB8583	1.25 lbs (0.57 kg)	28 in (71.0 cm)	14.5	12.5	.12 sq ft	125 mph
MFB8965NF	1.75 lbs (0.79 kg)	50.7 in (128.9 cm)	48.5	23.0	.23 sq ft	125 mph
MFB9153	1.25 lbs (0.57 kg)	23 in (58.4 cm)	8.3	8.6	.12 sq ft	125 mph
MFB9155(NF)	1.75 lbs (0.79 kg)	50.7 in (128.9 cm)	48.5	23.0	.23 sq ft	125 mph
MFB9157(NF)	4.00 lbs (1.81 kg)	94.7 in. (240.67 cm)	164.8	41.8	.42 sq ft	125 mph

\* (NF) indicates optional N Female connector.