

Fiberglass Base Station Omnidirectional Antennas

ISM/LoRa/LPWAN Antennas – Base Station

MFB Series



Description

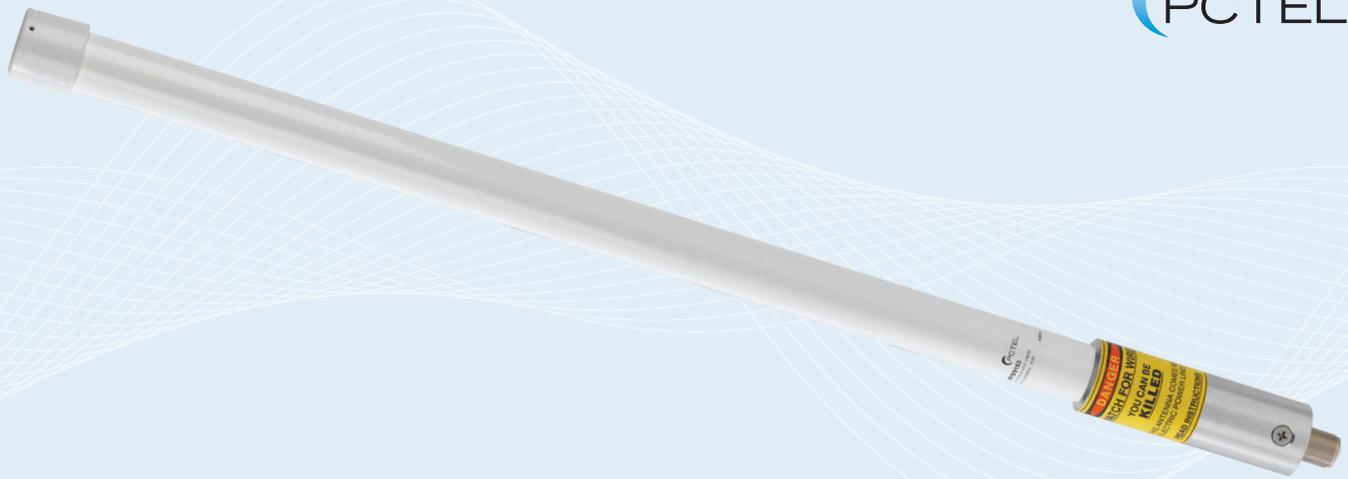
Heavy duty, base matched, half wave antennas for industrial wireless applications.

Technologies

- ISM
- LoRa
- LPWAN

Features

- Unity, 3 dB, 5 dB, 7 dB models
- Rugged, UV-resistant fiberglass housing
- Easy to install
- Withstands extreme weather conditions



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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

- Rugged – White UV-resistant pultruded fiberglass radome, thick-walled aluminum mounting base
- Multiple options – Unity, 3 dB, 5 dB, 7 dB models
- Withstands weather extremes – Temperature range -40°C to +85°C
- Installs fast – Factory tuned, DC grounded, UPS shippable

Certifications



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Standard Configuration

Model	Cables	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 and Environmental Specifications

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

* (NF) indicates optional N Female connector.

CONTACT US

**For more information about
this product contact your
sales representative or visit
> pctel.com/antenna-products**

Solving Complex Wireless Challenges

PCTEL is a leading global provider of wireless technology, including purpose-built Industrial IoT devices, antenna systems, and test and measurement solutions. Trusted by our customers for over 25 years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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