



The MEFC24005 (top and left) elevated feed antenna is ideal for public safety vehicles with overhead light bars that often obstruct the RF signal.



BMEFC49005HF



Technical Data

Maximum Power: 50 watts (MEFC24005) 10 watts (MEFC49005HF & MEFC58005HF)
Polarization: Vertical
Nominal Impedance: 50 Ohm
VSWR: < 1.5:1
Radome Material: Black Polycarbonate
Radiator Material: .100" OD stainless steel; bright (MEFC) or black finish (BMEFC)
Mount Method: Compatible with most 1-1/8" -18 thread mounts. See recommended mount options for each model.*

For detailed specifications, visit <http://antenna.pctel.com>.

Elevated Feed Mobile Data Antennas

These elevated feed mobile antennas are designed for installations requiring elevation of the antenna over surrounding objects that could prevent true omnidirectional coverage. They are ideal for public safety vehicles with overhead light bars that often obstruct the RF signal. They are designed to operate both on and off a ground plane without degradation in VSWR performance.

Features

- Feed point is elevated above its mounting surface, easily clearing the overhead light bars in police and ambulance vehicles which often obstruct the RF signal.
- Quiet, closed coil trilinear rod.
- Excellent VSWR performance on or off a ground plane.
- Rugged molded polymer elevated feed housing and stainless steel spring and rod, for maximum resistance to every day wear and tear. Mates with all 1-1/8" -18 thread mounts, including 3/4" mounts.
- High frequency microwave mounts utilize Pro-Flex™ Plus 195 low loss coaxial cable for optimal performance at microwave frequencies.
- 2.4 GHz model available with DC grounding option.

Mounting Options

Antenna Model	Recommended Mount Model(s)	Options
(B)MEFC24005	MLFML195C	Low frequency 3/4" hole permanent mount, 17 ft. Pro-Flex™ Plus 195, TNC male standard
(B)MEFC24005	 GMLFML195C	Low frequency magnetic mount, 17 ft. Pro-Flex™ Plus 195, TNC male standard
(B)MEFC49005HF (B)MEFC58005HF	 MHFML195C*	Permanent Mount, 17 ft. Pro-Flex™ Plus 195, TNC male loose
(B)MEFC49005HF (B)MEFC58005HF	 GMHFML195C*	Magnetic Mount, 12 ft. Pro-Flex™ Plus 195, TNC male attached



The Quick Ship icon indicates that the product is available for immediate delivery from select distributors.

* Models (B)MEFC49005HF and (B)MEFC58005HF must be ordered with recommended mount(s) listed above. Consult factory for other connector options offered with these mounts.

Antenna Electrical Specifications

Model	Frequency Range	Gain (ground Plane)	Gain (no Ground Plane)	Horizontal Beamwidth @1/2 Power	Vertical Beamwidth @1/2 Power
 (B)MEFC24005**	2.4-2.5 GHz	5 dBi	3.5 dBi	360°	45°
 (B)MEFC49005HF	4.9-5.0 GHz	5.5 dBi	5.5 dBi	360°	18°
 (B)MEFC58005HF	5.7-5.8 GHz	5.5 dBi	5.5 dBi	360°	18°

Mechanical Specifications

Model	Antenna Height	Weight (Mass)	Temperature Range	Wind Loading (Frontal) @ 125mph	Bending Moment @ 125 mph
 (B)MEFC24005**	16" (40.6 cm)	0.5 lbs (0.227 kg)	-40°C to +70°C	3.1 lbf.	18.6 in-lb
 (B)MEFC49005HF	12" (30.4 cm)	0.5 lbs (0.227 kg)	-40°C to +70°C	3.1 lbf.	18.6 in-lb
 (B)MEFC58005HF	12" (30.4 cm)	0.5 lbs (0.227 kg)	-40°C to +70°C	3.1 lbf.	18.6 in-lb



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*Prefix "B" indicates black.

**Add suffix "DC" for DC grounding option.