

MLPV Low Profile Vertical Antennas



BMLPV UHF
Model



MLPV800



WMLPVDB800/1900S



BMLPV800HD

PCTEL's MLPV antennas provide superior pattern coverage for mobile and fixed applications from 380 MHz to 6 GHz. Their design provides industry leading wideband performance and reliability, with minimum loss and no tuning required. Multiband versions are also available. All models feature an attractive, compact housing environmentally tested for both indoor or outdoor applications.

Features

- Attractive, low profile design for maximum overhead clearance
- Industry leading wideband performance provides outstanding coverage across multiple frequency bands with no tuning required
- Mates with all 1-1/8"-18 thread mounts, including 3/4" mounts
- Wideband, multiband, and no ground plane models available
- Black over chrome base standard; also available in white over chrome or black over black base
- "Easy grip" HD models available

Mounting

The following mounts are recommended with the MLPV antennas:

Model	Options
MLFML195C	High performance permanent 3/4" hole, 1-1/8"-18 thread mount. Includes 17 ft of Pro-Flex™ Plus 195 cable. Loose TNC male connector included. Optimized for frequencies over 800 MHz.
GMLFML195C	High performance permanent 3-1/4" diameter magnetic base, 1-1/8"-18 thread mount. Includes 12 ft of Pro-Flex™ Plus 195 cable terminated with TNC male connector (attached). Optimized for frequencies over 800 MHz.
MTPM800	5/8" hole, 1-1/8"-18 thread mount for surfaces up to 1/2-inch thick. Terminates in an N, female connector. No cable.* Supports 24 MHz - 6 GHz.
MVPHP	5/8" hole, vandal proof mount. No cable.* Supports 24 MHz - 6 GHz.
MMF	3/4" hole, 1-1/8"-18 mount for frequencies above 1 GHz. Terminates in an SMA, male connector. No cable.* Optimized for frequencies over 800 MHz.

Technical Data

Maximum Power: 150 watts (all models, except UHF and dual band models) 100 watts (UHF and dual band models)
Polarization: Vertical
Nominal Impedance: 50 ohms
VSWR: < 1.5:1 < 2.0:1 (dual-band and UHF models)
Ingress Protection: IP66
Color (add to prefix to indicate choice): Black over chrome (prefix not needed), black over black (B) or white over chrome (W).
Temperature Range: -40°F to +158°F (-40°C to +70°C)
Mount Method: Compatible with most 1-1/8" - 18 thread mounts, including 3/4" hole mounts



*Order cable assembly separately.

Electrical Specifications

Model	Frequency Range	Bandwidth	Gain
MLPV380	380-410 MHz	30 MHz	Unity
MLPV406	406-440 MHz	34 MHz	Unity
MLPV430	430-480 MHz	50 MHz	Unity
MLPV450	450-512 MHz	62 MHz	Unity
BMLPVMB/LTE	698-2700 MHz	2002 MHz	3 dBi
LPBMLPVMB/LTE	698-3800 MHz	3102 MHz	3 dBi
MLPV700	740-870 MHz	130 MHz	3 dBi*
MLPV800	806-960 MHz	154 MHz	3 dBi*
BMLPV800HD	806-960 MHz	154 MHz	3 dBi*
BMLPVB700/2500	698-960 MHz & 1710-2500 MHz	262 MHz and 790 MHz	3 dBi/4 dBi
MLPVB800/1900	806-960 MHz & 1710-1990 MHz	154 MHz and 280 MHz	3 dBi/4 dBi
BMLPVB800/1900HD	806-960 MHz & 1710-1990 MHz	154 MHz and 280 MHz	3 dBi/4 dBi
MLPVB800/1900S	806-960 MHz & 1710-2500 MHz	154 MHz and 790 MHz	3 dBi/4 dBi
BMLPVB902/2400	902-928 MHz & 2400-2500 MHz	26 MHz and 100 MHz	3 dBi/4 dBi
BMLPVB902/2400S	902-928 MHz & 2400-2500 MHz	26 MHz and 100 MHz	3 dBi/4 dBi
MLPV1700	1.7-2.7 GHz	1000 MHz	4 dBi*
MLPVB2458	2.4-2.5 GHz & 4.9-5.9 GHz	100 MHz / 1000 MHz	3 dBi/4 dBi
BMLPV3800	3.4-4.2 GHz	2002 MHz	3 dB
BMLPV4900	4.9-5.9 GHz	1000 MHz	4 dBi*

Mechanical Specifications

Model	Antenna Dimensions	Weight (Mass)	Color Option(s)**
MLPV380	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	Black-Chrome, Black
MLPV406	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	Black-Chrome, Black
MLPV430	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	Black-Chrome, Black
MLPV450	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	Black-Chrome, Black
BMLPVMB/LTE	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	Black
LPBMLPVMB/LTE	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	Black-Chrome
MLPV700	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	Black-Chrome, Black, White-Chrome
MLPV800	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	Black-Chrome, Black, White-Chrome
BMLPV800HD	At base: 2.40 H x 1.50 W x 1.70 D in (6.10 x 3.81 x 4.32 cm)	0.44 lbs (0.19 kg)	Black
BMLPVB700/2500	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	Black-Chrome, Black, White-Chrome
MLPVB800/1900	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	Black-Chrome, Black, White-Chrome
BMLPV800/1900HD	At base: 2.40 H x 1.50 W x 1.70 D in (6.10 x 3.81 x 4.32 cm)	0.44 lbs (0.19 kg)	Black
MLPVB800/1900S	1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.29 lbs (0.13 kg)	Black-Chrome, Black, White-Chrome
BMLPVB902/2400	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	Black, White-Chrome
BMLPVB902/2400S	1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.29 lbs (0.13 kg)	Black-Chrome, Black, White-Chrome
MLPV1700	1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.34 lbs (0.15 kg)	Black-Chrome, Black, White-Chrome
MLPVB2458	At base: 1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.34 lbs (0.15 kg)	Black-Chrome, Black, White-Chrome
BMLPV3800	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	Black
BMLPV4900	At base: 1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.34 lbs (0.15 kg)	Black, White-Chrome

* Measured on a 1 x1 foot diameter ground plane. Gain is ground plane dependent.

** To order black over black version, add the prefix "B" to the part number. To order the white over chrome version, add the prefix "W" to the part number. Not all models are available in black or white. Call Customer Service for availability.

