

MLPV Low Profile Vertical Antennas

PCTEL’s MLPV antennas provide superior pattern coverage for mobile and fixed applications from 380 MHz to 5.8 GHz. Their design provides industry leading wideband performance and reliability, with minimum loss and no tuning required. Dual-band versions (MLPVDB series) 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 on the next page:

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.
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).
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.*
MVP	5/8” hole, vandal proof mount. No cable.*
MMF	3/4” hole, 1-1/8”-18 mount for frequencies above 1 GHz. Terminates in an SMA, male connector. No cable.*



BMLPV UHF Model



MLPV800



WMLPVDB800/1900S



BMLPV800HD

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).
Mount Method: Compatible with most 1-1/8” - 18 thread mounts, including 3/4” hole mounts

*Order cable assembly separately.



Antenna 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
MLPV698	698-806 MHz	108 MHz	Unity
MLPV700	740-870 MHz	130 MHz	3 dBi**
MLPV800	806-960 MHz	154 MHz	3 dBi**
BMLPV800HD	806-960 MHz	154 MHz	3 dBi**
BMLPVDB700/2500	698-960 MHz and 1710-2500 MHz	262 MHz and 790 MHz	3 dBi/4 dBi
MLPVDB800/1900	806-960 MHz and 1710-1990 MHz	154 MHz and 280 MHz	3 dBi/4 dBi
BMLPVDB800/1900HD	806-960 MHz and 1710-1990 MHz	154 MHz and 280 MHz	3 dBi/4 dBi
MLPVDB800/1900S	806-960 MHz and 1710-2500 MHz	154 MHz and 790 MHz	3 dBi/4 dBi
MLPVDB902/2400	902-928 MHz and 2400-2500 MHz	26 MHz and 100 MHz	3 dBi/4 dBi
MLPVDB902/2400S	902-928 MHz and 2400-2500 MHz	26 MHz and 100 MHz	3 dBi/4 dBi
MLPV1700	1700-2700 MHz	1000 MHz	4 dBi**
MLPVDB2458	2.4-2.5 GHz and 4.9-5.9 GHz	100 MHz / 1000 MHz	3 dBi/4 dBi
MLPV4900	4.9-5.9 GHz	1000 MHz	4 dBi
BMLPVMB/LTE	698-2700 MHz	2002 MHz	3 dBi
LPBMLPVMB/LTE	698-3800 MHz	3102 MHz	3 dBi

Mechanical Specifications

Model*	Antenna Dimensions	Weight (Mass)	Temperature Range
MLPV380	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	-40° F to 158° F (-40° C to 70° C)
MLPV406	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	-40° F to 158° F (-40° C to 70° C)
MLPV430	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	-40° F to 158° F (-40° C to 70° C)
MLPV450	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	-40° F to 158° F (-40° C to 70° C)
MLPV698	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	-40° F to 158° F (-40° C to 70° C)
MLPV700	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	-40° F to 158° F (-40° C to 70° C)
MLPV800	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	-40° F to 158° F (-40° C to 70° C)
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)	-40° F to 158° F (-40° C to 70° C)
BMLPVDB700/2500	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	-40° F to 158° F (-40° C to 70° C)
MLPVDB800/1900	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	-40° F to 158° F (-40° C to 70° C)
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)	-40° F to 158° F (-40° C to 70° C)
MLPVDB800/1900S	1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.29 lbs (0.13 kg)	-40° F to 158° F (-40° C to 70° C)
MLPVDB902/2400	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	-40° F to 158° F (-40° C to 70° C)
MLPVDB902/2400S	1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.29 lbs (0.13 kg)	-40° F to 158° F (-40° C to 70° C)
MLPV1700	1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.34 lbs (0.15 kg)	-40° F to 158° F (-40° C to 70° C)
MLPVDB2458	At base: 1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.34 lbs (0.15 kg)	-40° F to 158° F (-40° C to 70° C)
MLPV4900**	At base: 1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.34 lbs (0.15 kg)	-40° F to 158° F (-40° C to 70° C)
BMLPVMB/LTE	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	-40° F to 158° F (-40° C to 70° C)
LPBMLPVMB/LTE	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	-40° F to 158° F (-40° C to 70° C)



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