

MLPV Low Profile Vertical Antennas

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



MLPV406



MLPV800



WMLPVB800/1900S



BMLPV800HD

STANDARD CONFIGURATION

Model	Recommended Mounts (Sold Separately)
MLPV380	Mates with 1-1/8"-18 thread mounts, including 3/4" mounts. For models operating at frequencies over 900 MHz, high frequency mounts are recommended: 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 configurable. 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 configurable. 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.
MLPV406	
MLPV430	
MLPV450	
BMLPVM/LTE	
LPBMLPVM/LTE	
MLPV700	
MLPV800	
BMLPV800HD	
BMLPVB700/2500	
MLPVB800/1900	
BMLPVB800/1900HD	
MLPVB800/1900S	
BMLPVB902/2400	
BMLPVB902/2400S	
MLPV1700	
MLPVB2458	
BMLPV3800	
BMLPV4900	

* Measured on a 1 x1 foot diameter ground plane. Gain is ground plane dependent. , **Order cable assembly separately.

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ELECTRICAL SPECIFICATIONS

Model	Frequency Range	Gain	VSWR	Average Power	Nominal Impedance	Polarization
MLPV380	380-410 MHz	Unity	< 2.0:1	100 watts	50 ohms	Vertical
MLPV406	406-440 MHz	Unity	< 2.0:1	100 watts	50 ohms	Vertical
MLPV430	430-480 MHz	Unity	< 2.0:1	100 watts	50 ohms	Vertical
MLPV450	450-512 MHz	Unity	< 2.0:1	100 watts	50 ohms	Vertical
BMLPVMB/LTE	698-2700 MHz	3 dBi	< 2.0:1	100 watts	50 ohms	Vertical
LPBMLPVMB/LTE	698-3800 MHz	3 dBi	< 2.0:1	100 watts	50 ohms	Vertical
MLPV700	740-870 MHz	3 dBi*	< 2.0:1	100 watts	50 ohms	Vertical
MLPV800	806-960 MHz	3 dBi*	< 2.0:1	100 watts	50 ohms	Vertical
BMLPV800HD	806-960 MHz	3 dBi*	< 2.0:1	100 watts	50 ohms	Vertical
BMLPVDB700/2500	698-960 MHz & 1710-2500 MHz	3 dBi/4 dBi	< 2.0:1	100 watts	50 ohms	Vertical
MLPVDB800/1900	806-960 MHz & 1710-1990 MHz	3 dBi/4 dBi	< 2.0:1	100 watts	50 ohms	Vertical
BMLPVDB800/1900HD	806-960 MHz & 1710-1990 MHz	3 dBi/4 dBi	< 2.0:1	100 watts	50 ohms	Vertical
MLPVDB800/1900S	806-960 MHz & 1710-2500 MHz	3 dBi/4 dBi	< 2.0:1	100 watts	50 ohms	Vertical
BMLPVDB902/2400	902-928 MHz & 2400-2500 MHz	3 dBi/4 dBi	< 2.0:1	100 watts	50 ohms	Vertical
BMLPVDB902/2400S	902-928 MHz & 2400-2500 MHz	3 dBi/4 dBi	< 2.0:1	100 watts	50 ohms	Vertical
MLPV1700	1.7-2.7 GHz	4 dBi*	< 2.0:1	100 watts	50 ohms	Vertical
MLPVDB2458	2.4-2.5 GHz & 4.9-5.9 GHz	3 dBi/4 dBi	< 2.0:1	100 watts	50 ohms	Vertical
BMLPV3800	3.4-4.2 GHz	3 dB	< 1.5:1	150 watts	50 ohms	Vertical
BMLPV4900	4.9-5.9 GHz	4 dBi*	< 1.5:1	150 watts	50 ohms	Vertical

MECHANICAL SPECIFICATIONS

Model	Dimensions	Weight	Housing Material	Ingress Protection	Color Options**
MLPV380	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	XENOY 5720U-7014, UV STABLE	IP67	Black-Chrome, Black
MLPV406	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	XENOY 5720U-7014, UV STABLE	IP67	Black-Chrome, Black
MLPV430	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	XENOY 5720U-7014, UV STABLE	IP67	Black-Chrome, Black
MLPV450	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	XENOY 5720U-7014, UV STABLE	IP67	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)	XENOY 5720U-7014, UV STABLE	IP67	Black
LPBMLPVMB/LTE	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	XENOY 5720U-7014, UV STABLE	IP67	Black-Chrome
MLPV700	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	XENOY 5720U-7014	IP67	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)	UV STABLE	IP67	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)	XENOY 5720U-7014, UV STABLE	IP67	Black
MLPVDB700/2500	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	XENOY 5720U-7014, UV STABLE	IP67	Black, White-Chrome

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MECHANICAL SPECIFICATIONS, continued

Model	Dimensions	Weight	Housing Material	Ingress Protection	Color Options**
MLPVDB800/1900	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	XENOY 572OU-7014, UV STABLE	IP67	Black-Chrome, Black, White-Chrome
BMLPVDB800/1900HD	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)	XENOY 572OU-7014, UV STABLE	IP67	Black
MLPVDB800/1900S	1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.29 lbs (0.13 kg)	XENOY 572OU-7014, UV STABLE	IP67	Black-Chrome, Black, White-Chrome
BMLPVDB902/2400	2.40 H X 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	XENOY 572OU-7014, UV STABLE	IP67	Black, White-Chrome
BMLPVDB902/2400S	1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.29 lbs (0.13 kg)	XENOY 572OU-7014, UV STABLE	IP67	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)	XENOY 572OU-7014, UV STABLE	IP67	Black-Chrome, Black, White-Chrome
MLPVDB2458	At base: 1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.34 lbs (0.15 kg)	XENOY 572OU-7014, UV STABLE	IP67	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)	XENOY 572OU-7014, UV STABLE	IP67	Black
BMLPV4900	At base: 1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.34 lbs (0.15 kg)	XENOY 572OU-7014, UV STABLE	IP67	Black