

## Low Profile Antennas - MLPV Series

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 out. Antennas can be purchased separately, or as a kit assembly with the MVPHP mount for permanent installations (VP option).

### Features

- Attractive, low profile design for maximum overhead clearance
- Industry leading wideband performance provides outstanding coverage across multiple frequency bands with no tuning required
- Wideband, multiband, and no ground plane models available
- "Easy grip" HD models available
- N Female termination option available on select models (VP Option)



WMLPVDB2458VP

## STANDARD CONFIGURATION

MLPV antennas mate with 1-1/8"-18 thread mounts, including mounts (sold separately). For models operating at frequencies over 600 MHz, high frequency mounts are recommended:

**MLFML195C:** High performance permanent mount 3/4" hole, 1-1/8"-18 thread interface. Includes 17 ft of Pro-Flex™ Plus 195 cable. Loose TNC male connector included. Optimized for frequencies over 600 MHz. Configurable.

**GMLFML195C:** High performance magnetic mount 3-1/4" diameter base, 1-1/8"-18 thread interface. Includes 12 ft of Pro-Flex™ Plus 195 cable terminated with TNC male connector (attached). Optimized for frequencies over 600 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. Add suffix "VP" to the MLPV part number to have this mount permanently installed at the factory. VP option will not be removable from factory installed "VP" antennas. (example: BMLPVDB800/1900SVP)

**MMF:** 3/4" hole, 1-1/8"-18 mount. Terminates in an SMA, male connector. No cable.\*\* Supports 24 MHz - 6 GHz.

**MMF-VP:** 3/4" hole vandal-proof mount for frequencies from 0 GHz to 6 GHz. 1-1/8"-18 thread interface. Terminates in SMA, male connector. No cable\*\*. Accommodates surfaces up to .09-inch thick.

## ELECTRICAL SPECIFICATIONS

Model	Frequency Range	Gain*	VSWR	Maximum 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
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
BMLPVDB902/2400S	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

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

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### MECHANICAL SPECIFICATIONS

Model	Dimensions	Weight	Housing Material	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	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	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	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	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	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	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, UV STABLE	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)	XENOY 5720U-7014, UV STABLE	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	Black
MLPVDB800/1900	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	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 5720U-7014, UV STABLE	Black
MLPVDB800/1900S	1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.29 lbs (0.13 kg)	XENOY 5720U-7014, UV STABLE	Black-Chrome, 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 5720U-7014, UV STABLE	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 5720U-7014, UV STABLE	Black-Chrome, Black, White-Chrome
MLPVDB2458	1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.34 lbs (0.15 kg)	XENOY 5720U-7014, UV STABLE	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 5720U-7014, UV STABLE	Black
BMLPV4900	1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.34 lbs (0.15 kg)	XENOY 5720U-7014, UV STABLE	Black

### ENVIRONMENTAL SPECIFICATIONS (ALL MODELS)

Temperature Range	Ingress Protection
-40°C to +85°	IP67****

\*\*\* Black-Chrome is standard for all MLPV models, unless otherwise indicated.  
 For all black option, add prefix "B" to the MLPV part number. Example: BMLPV800.  
 For White-Chrome option, add prefix "W" to the MLPV part number. Example: WMLPV800.  
 \*\*\*\* When installed and tested according to PCTEL installation instructions.