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. Multi-band 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).

WMLPVDB2458VP

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, multi-band, and no ground plane models available
- "Easy grip" HD models available
- N Female termination option available on select models (VP Option)

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	600-690 MHz/698-960 MHz/1710-2700 MHz	3 dBi	3.0:1/< 2.5:1/< 2.5:1	100 watts	50 ohms	Vertical
WMLPVMB/LTE	600-690 MHz/698-960 MHz/1710-2700 MHz	3 dBi	3.0:1/< 2.5:1/< 2.5:1	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
WMLPVDB800/1900S	806-960 MHz & 1710-2500 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
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
BMLPV4900	4.9-5.9 GHz	4 dBi	< 1.5:1	150 watts	50 ohms	Vertical

* Measured on a 1 x1 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 572OU-7014, UV-Stable	Black
WMLPVMB/LTE	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	White-Chrome
LPBMLPVMB/LTE	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	Black-Chrome
MLPV700	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	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 572OU-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 572OU-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 572OU-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 572OU-7014, UV-Stable	Black
WMLPVDB800/1900S	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	White-Chrome
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	Black-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	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 572OU-7014, UV-Stable	Black-Chrome, Black, White-Chrome
BMLPV4900	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	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.