

## 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).

### 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)



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.

## Low-Profile Antennas - MLPV Series



### 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.