

# Ground Plane Independent, Low Profile MLPV Series Antenna

Cellular Antennas (5G, LTE, CBRS, 3G, 2G)

BMLPVMBLTENGP, BMLPVMBLTENGP-VP



## Description

This compact antenna provides industry-leading performance and reliability for mobile and fixed applications with no need for a ground plane.

## Technologies

- Cellular

## Features

- Industry leading wideband 4G LTE coverage with or without a ground plane
- Extremely compact housing
- Convenient – No tuning required
- Flexible installation
- Can accommodate thick surface installations





MLFML195C or MLFML240C  
MLF high efficiency mount  
(sold separately)

## Ground Plane Independent, Low Profile MLPV Series Antenna

### Cellular Antennas (5G, LTE, CBRS, 3G, 2G) – Low Profile Whipless

PCTEL's BMLPVMBLTENG antennas provide superior pattern coverage for mobile and fixed applications operating in 4G LTE frequencies without the need for a ground plane. Their design provides industry leading wide-band performance and reliability, with minimum loss and no tuning required. These antennas are environmentally tested for both indoor or outdoor applications.

#### Features

- 4G LTE coverage with or without a ground plane
- Attractive, low-profile design for maximum overhead clearance
- Industry leading wide-band 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
- "-VP" N female terminated version available to accommodate thick surface installations

#### Certifications



# Ground Plane Independent, Low Profile MLPV Series Antenna

## Cellular Antennas (5G, LTE, CBRS, 3G, 2G) – Low Profile Whipless

### Standard Configurations

| Model            | Cable  | Connector  | Mount   |
|------------------|--|--|---|
| BMLPVMBLTENGP    | Pro-Flex™ Plus 195 or PFP240 high frequency cable is recommended with these antennas. Cable or mount/cable assemblies sold separately. | Various connector options offered with PCTEL high frequency mounts | Compatible with most 1-1/8" - 18 thread mounts, including 3/4" hole mounts. For optimal performance, use higher frequency rated mounts (e.g. MLFML195C, MTPM800 and GMLFML195C). Mount sold separately. |
| BMLPVMBLTENGP-VP |  | N Female bulkhead  | Built-in N connector accomodates surfaces up to 1/2-in thick  |

### Electrical Specifications – All frequencies

| Model            | Frequency Ranges | Peak Gain <sup>1</sup> | Typical Gain <sup>1</sup> | VSWR    | Maximum Power | Polarization     | Nominal Impedance |
|------------------|------------------|------------------------|---------------------------|---------|---------------|------------------|-------------------|
| BMLPVMBLTENGP    | 450-470 MHz      | 3 dBi                  | 0 dBi                     | < 2.5:1 | 150 watts     | Vertical, linear | 50 ohms           |
|                  | 690-960 MHz      | 2.5 dBi                | -1 dBi                    |         |               |                  |                   |
|                  | 1710-2700 MHz    | 3.5 dBi                | 0 dBi                     |         |               |                  |                   |
| BMLPVMBLTENGP-VP | 450-470 MHz      | 3 dBi                  | 0 dBi                     |         |               |                  |                   |
|                  | 690-960 MHz      | 2.5 dBi                | -1 dBi                    |         |               |                  |                   |
|                  | 1710-2700 MHz    | 3.5 dBi                | 0 dBi                     |         |               |                  |                   |

### Mechanical and Environmental Specifications

| Model            | Dimensions (OD x Height)        | Weight (Mass)        | Temperature Range                   | Ingress Protection <sup>2</sup> | Housing Color |
|------------------|---------------------------------|----------------------|-------------------------------------|---------------------------------|---------------|
| BMLPVMBLTENGP    | 1.43" x 3.49" (36.3 x 88.6 mm)  | 0.40 lbs (0.18 kg)   | -40°F to +185°F<br>(-40°C to +85°C) | IP66                            | Black         |
| BMLPVMBLTENGP-VP | 1.43" x 4.59" (36.3 x 116.6 mm) | 0.534 lbs (0.242 kg) |                                     |                                 |               |

<sup>1</sup> 450-470 MHz gain and SWR measured on a cabinet chassis (450 mm x 300 mm x 15 mm) with a right angle bracket.

CONTACT US

For more information about  
this product contact your  
sales representative or visit  
> [pctel.com/antenna-products](https://pctel.com/antenna-products)

### Solving Complex Wireless Challenges

PCTEL, an Amphenol company, is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for decades we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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