DATASHEET CELLULAR ANTENNAS (5G, LTE, CBRS, 3G, 2G)

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 accomodate thick surface installations

PCTEL
an **Amphenol** company



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 BMLPVMBLTENGP 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

RoHS COMPLIANT

SPECIFICATIONS

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	RG-58 (DBL) 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[1]	Typical Gain[1]	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[2]	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 (-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)			

[1] 450-470 MHz gain and SWR measured on a cabinet chassis (450 mm x 300 mm x 15 mm) with a right angle bracket. 690-2700 MHz gain and SWR measured in free space.
[2] When installed per PCTEL installation instructions on a roof top surface.

CONTACT US

For more information about this product contact your sales representative or visit

> pctel.com/antenna-products

Solving Complex Wireless Challenges

PCTEL, an Amphenol company, is a leading global provider of wireless technology solutions, including purpose-built 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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