

High Efficiency, Low Profile Antenna

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

BMLPV-MBLTE-HP



Description

Designed and tested to withstand severe vibration, this rugged antenna delivers superior system efficiency and pattern coverage for mobile and fixed application. It provides industry leading multiband performance and reliability, with minimum loss and no tuning required.

Technologies

- Cellular

Features

- Withstands extreme vibration
- Stable performance to the lowest LTE frequencies
- Superior efficiency over PCB elements
- Minimizes insertion losses and maximizes radiated power
- Simplified installation



High Efficiency, Low Profile Antenna

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

PCTEL's BMLPV-MBLTE-HP antenna provides superior system efficiency and pattern coverage for mobile and fixed applications operating in 4G LTE frequencies. Its design provides industry leading multiband performance and reliability, with minimum loss and no tuning required. Featuring an attractive, compact housing, this antenna is designed and environmentally tested to withstand severe vibration conditions, making it suitable for rail, mining, and construction applications.

Features

- Precision machined element delivers superior efficiency over PCB elements
- PTFE and Air dielectric utilized to minimize insertion losses and maximize radiated power
- No solder joint design for extreme vibration installations
- Integrated mount simplifies installation and service
- Non-truncated element design provides stable performance to the lowest LTE frequencies
- Built-in N Female termination accommodates thick surface mounting installations

Applications

- Severe vibration environments
- Rail
- Mining
- Construction

Certifications



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Standard Configurations

Model	Cable	Connector	Mount
BMLPV-MBLTE-HP	Mating N Male cable assembly sold separately	N Female bulkhead	Built-in 5/8" hole; 1-1/8" thread N Female bulkhead suitable for installation surfaces up to 1/2" thick

Electrical Specifications – All frequencies

Frequency Ranges	Gain	VSWR	Efficiency	Maximum Power	Polarization	Nominal Impedance
600 - 960 MHz	3 dBi	< 2.5:1	> 80%	150 watts	Vertical, linear	50 ohms
1710 - 2170 MHz	3 dBi	< 2.5:1	> 80%			
2300 - 2700 MHz	3 dBi	< 2.5:1	> 80%			

Mechanical and Environmental Specifications

Physical

Dimensions (OD x Height)	1.43" x 4.38" (36.4 x 111.2mm)
Weight (Mass)	0.40 lbs (0.18 kg)
Temperature Range	-40°F to +185°F (-40°C to +85°C)
Housing Color	Black
Ingress Protection	IP66

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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