

Low-Profile Antennas - MLPV Series, High Efficiency



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 multi-band 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



BMLPV-MBLTE-HP

STANDARD CONFIGURATION

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)

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

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Model	Dimensions	Weight (Mass)	Temperature Range	Ingress Protection
BMLPV-MBLTE-HP	1.44 x 3.54 in (3.65 x 9.00 cm)	0.40 lbs (0.18 kg)	-40°F to +158°F (-40°C to +70°C)	IP66

