

High Efficiency, Low Profile, High Vibration 4G LTE Antenna



BMLPV-MBLTE-HP

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 for thick surface mounting installations

Electrical Specifications

Frequency Range	Efficiency	Gain	Maximum Power	Polarization	Nominal Impedance	VSWR
690-960 MHz	>80%					
1710-2170 MHz	>80%	3 dBi	150 watts	Vertical	50 ohms	< 2.5:1
2300-2700 MHz	>80%					

Mechanical Specifications

Antenna Dimensions (OD x H)	Weight (Mass)	Temperature Range	Ingress Protection
1.44 x 3.54 inches (3.65 x 9.00 cm)	0.40 lbs (0.18 kg)	-40°F to +158°F (-40°C to +70°C)	IP66

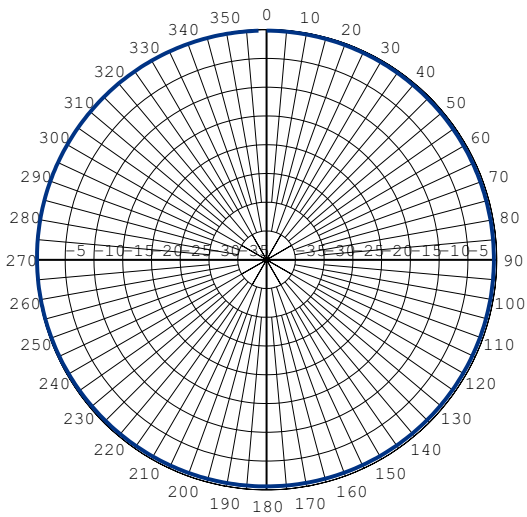
Mounting Method

Description

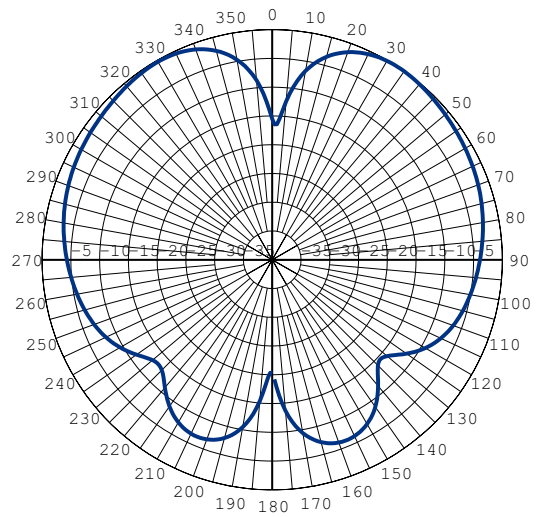
Built-in 5/8" hole; 1-1/8" thread N female bulkhead suitable for installation surfaces up to 1/2" thick.



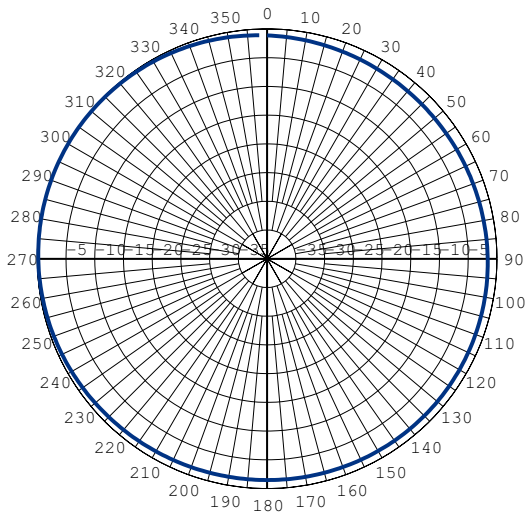
800 MHz Azimuth Pattern



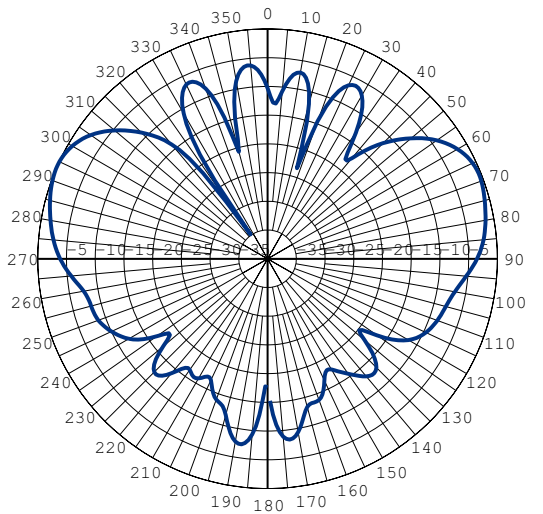
800 MHz Elevation Pattern



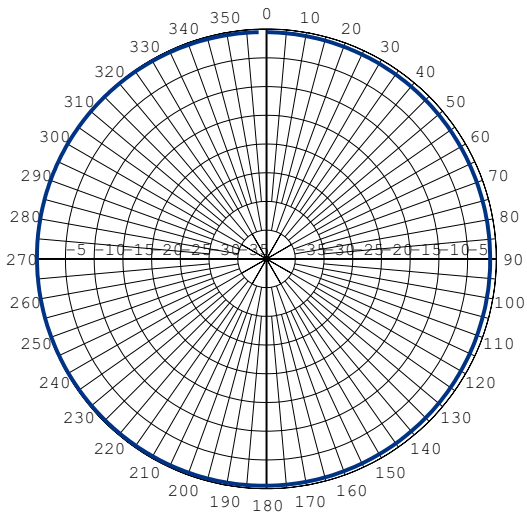
2000 MHz Azimuth Pattern



2000 MHz Elevation Pattern



2500 MHz Azimuth Pattern



2500 MHz Elevation Pattern

