

PCTEL® 5G/4G-Antennas - LPBMLPVMB/LTE Series

LPBMLPVMB/LTE SERIES



Versatile high-performance antenna for 5G and 4G frequencies

The LPBMLPVMB/LTE antenna from PCTEL® is suitable for 4G/LTE applications as well as for the new 5G due to its very wide frequency range. The IP67 protected antenna is extremely robust and can be mounted on almost any surface. A comprehensive selection of mounting accessories such as wall or mast mounts make the antenna a universal solution for a wide range of stationary or mobile applications.

In addition to 5G, the antenna covers all 4G bands available worldwide from 600 MHz. This makes it a perfect choice for all applications based on 4G and 5G. Thus you achieve investment and operational safety and do not have to install the antenna in the in the coming years.

- Versatile high-performance antenna for 5G and 4G frequencies
- 5G frequencies already integrated
- High broadband performance in all 4G bands in order to achieve 5G frequency range
- Optimal for indoor and outdoor applications under harsh environmental conditions
- Wide range of mounting, connector and cable accessories for flexible installation

MODELS	DESCRIPTION	ANTENNA CONNECTOR	ANTENNA CABLE
LPBMLPVMB/LTE	4G/5G Antenna with Universal Plug. Can be combined with magnetic foot holder or mounting feet	Universal Plug	See accessories table or cable configurator

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PRODUCT FEATURES



5G support

Supports the most used 5G frequency bands.



4G/LTE support

Supports all 4G/LTE frequency bands.



Omnidirectional antenna

Omnidirectional radiation characteristic ideal for most applications.



Frequency range

This antenna offers 698 - 3.800 MHz frequency range.



Antenna gain

3 dBi antenna gain.



IP67 protection

Suitable for outdoor use with IP67 protection against water and dust.

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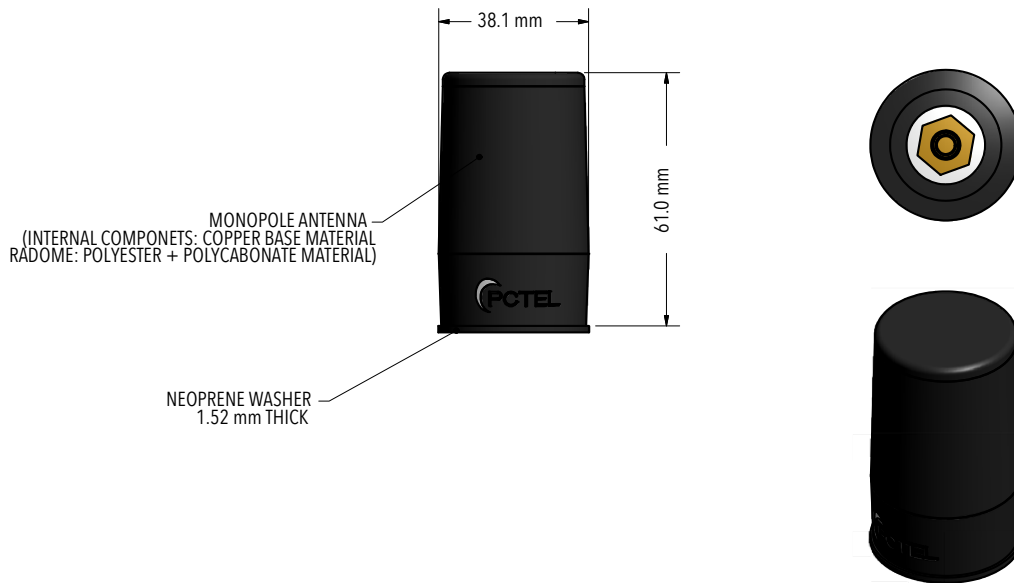
SPECIFICATIONS

LPBMLPVMB/LTE	
Antenna elements	1 x 5G/LTE
Frequency range	698 - 3800 MHz
Antenna gain	3 dBi
Antenna cable	See accessories table or cable configurator
Antenna connector	Universal Plug, can be combined with mounting accessories (see table of accessory components)
Compatible with	GSM/GPRS/EDGE, UMTS, 4G, 5G, WLAN (2,4 GHz), Bluetooth, Zigbee, LoRa, Sigfox, 869 MHz

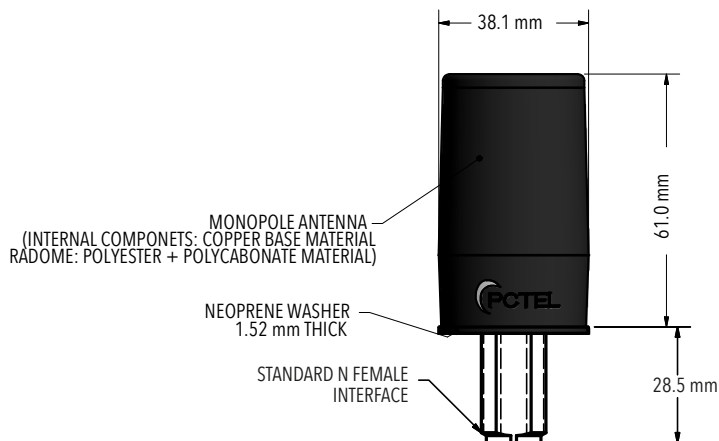
GENERAL INFORMATION	
Antenna type	5G/4G-Antennas
Construction type	Low-Profile Antenna
Application area	Indoor/Outdoor
Radiation characteristic	Omnidirectional
Integrated Antenna elements	1 x 5G/4G
Groundplane needed?	Yes
GSM/GPRS/EDGE- frequencies	850 / 900 / 1800 / 1900 MHz
4G-frequencies	700 / 2100 / 3500 / 3600 / 3700 / 3800 MHz
5G-frequencies	2100 / 3600 / 3700 / 3800 MHz
WiFi-frequencies	2.4 GHz
License-free bands	869 MHz range
Gain (typical)	3 dBi
VSWR	<2.0:1
ELECTRICAL CHARACTERISTICS	
Transmission power (max)	100 W
Impedance	50 Ohm
Polarization	Vertical
PHYSICAL CHARACTERISTICS	
Material	XENOY 5720U-7014, UV-Stable
Dimensions	38.1 x 61 mm (diameter x height)
Protection class	IP67
Mounting options	Screw mounting, Wall mounting, Magnetic foot mounting, Pole mounting
Operating temperature range	-40 - +85 °C

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PRODUCT DIMENSIONS (MM) - LPBMLPVDB/LTE



PRODUCT DIMENSIONS (MM) - LPBMLPVDB/LTE WITH ANTENNA BASE MTPM800



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ACCESSORIES

DESCRIPTION	CHARACTERISTICS	ORDER CODE
Antenna mount for mounting the antenna on magnetic surfaces such as switch cabinets or on vehicle roofs	Antenna cable and connector: 360 cm Pro Flex Plus 195 with SMA(m), contact area 89.7 mm	GMLFML195C
Antenna mount for vandalism-proof installation of the antenna by screwing into housing or other surfaces	Vandalism-proof mounting foot for publicly accessible areas. Antenna connector N(f) directly on the mount	MVPHP
Standard antenna base for screw mounting	Mounting foot for screw mounting, antenna plug N(f) directly on the mount	MTPM80
Wall mounting bracket for mounting the antenna on vertical (outside) walls	Dimensions 60x80x50 mm, stainless steel bracket with holder for N(f) plug	WA-Mount-NF-1
Mast mounting bracket for mounting the antenna on steel tubes	Aluminium L-bracket for parallel or vertical mounting on pipes or masts. Suitable for pipes and masts with 38 - 60 mm outer diameter. Hole with 15.8 mm diameter for connectors	BAM1009
Magnetic base mounting bracket for vertical, metallic surfaces	Dimensions 60x80x50 mm, stainless steel bracket with holder for N(f) plug. Strong magnet included in the set	WA-Mount-NF-3

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ACCESSORIES



GMLFML195C
Antenna Mount
Magnetic base for mounting antennas on metallic surfaces. 360 cm Pro-Flex Plus with SMA (m) connector



MVPHP
Antenna Mount
Mounting foot for the vandalism-proof installation of antennas by means of a feed-through. Plug N (f)



MTPM800
Antenna Mount
Mounting foot for mounting antennas by means of a feed-through. Plug N (f)



WA-Mount-NF-1
Antenna Mount
Stainless steel wall mounting bracket with 16.5 mm mounting hole for antennas. The holes for wall mounting can also be used for cable ties.



BAM1009
Antenna Mount
Aluminium L-bracket for horizontal or vertical mounting on pipes or masts. Suitable for pipes and masts with 38 - 60 mm outer diameter. Hole with 15.8 mm diameter for mounting with N(f) connectors.



WA-Mount-NF-3
Antenna Mount
Stainless steel wall mounting bracket with 16.5 mm mounting hole for antennas. Mounting on metallic surfaces via enclosed magnets. The holes for wall mounting can also be used for cable ties.

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ACCESSORIES ANTENNA CABLE

For mounting bases MVPHP and MTPM800

ANTENNA CABLE TYPE / LENGTH	ANTENNAS-CONNECTION LEFT	ANTENNAS-CONNECTION RIGHT	ORDER CODE
RF195 / 50 cm	N (m)	SMA (m)	NOM00-1950050-S0M00
RF195 / 100 cm	N (m)	SMA (m)	NOM00-1950100-S0M00
RF195 / 300 cm	N (m)	SMA (m)	NOM00-1950300-S0M00
RF195 / 500 cm	N (m)	SMA (m)	NOM00-1950500-S0M00
RF195 / 1000 cm	N (m)	SMA (m)	NOM00-1951000-S0M00
RF195 / 50 cm	N (m)	TNC (m)	NOM00-1950050-T0M00
RF195 / 100 cm	N (m)	TNC (m)	NOM00-1950100-T0M00
RF195 / 300 cm	N (m)	TNC (m)	NOM00-1950300-T0M00
RF195 / 500 cm	N (m)	TNC (m)	NOM00-1950500-T0M00
RF195 / 1000 cm	N (m)	TNC (m)	NOM00-1951000-T0M00



Antenna cable - Configurator

With the Welotec cable configurator it is easy to find the right coax cable for your needs.

Choose your desired cable from a large selection on cable types and combine it with the suitable connection.

Available connections:

SMA, RP-SMA, TNC, RP-TNC, BNC, N

Available cable types:

RG174, RF195, Aircell 5, RG58, RG223, H155 PE, Aircell 7