

# 5G NR (FR1), Wi-Fi6e Low Profile Vertical Antenna

Cellular, Wi-Fi, Bluetooth®, & BLE Antennas – Low Profile Whipless

**BMLPV5000**



## Description

Attractive multiband antenna with low profile, compact housing antenna supports the world's leading 5G NR devices and is ideal for indoor or outdoor applications requiring minimum antenna visibility. The antenna also covers Wi-Fi6e frequencies for maximum application flexibility.

## Technologies

- 5G Cellular
- Wi-Fi6e
- Bluetooth®

## Features

- Attractive, low-profile design
- Multiband coverage
- Environmentally tested to MIL-STD-810-G, SAE J1455 and IEC 68-2-32
- N female termination option (-VP) available



GMLFML195C or GMLFML240C  
high efficiency magnetic mount  
(sold separately)



MLFML195C or MLFML240C  
MLF high efficiency mount  
(sold separately)

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The BMLPV5000 low profile vertical antenna supports the high speed requirements of complex RF communication systems used for Intelligent Transportation Systems (ITS), and IIoT applications. This antenna supports the world's leading 5G NR or Wi-Fi6e devices supporting frequencies from 600 MHz to 7.1 GHz frequencies. It features an attractive, compact housing that makes the antenna ideal for indoor or outdoor applications requiring minimum visibility to the antenna. PCTEL's high efficiency permanent mount is recommended for most efficient performance.

#### Features

- Attractive, low-profile design
- Multiple band coverage with no tuning required
- Can be used for mobile and fixed base applications
- Environmentally tested to MIL-STD-810G
- N female termination option (-VP) available

#### Certifications



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## Standard Configurations

Model	Cable	Connector <sup>1</sup>	Mount	Housing Color
BMLPV5000	Pro-Flex™ Plus 195 or PFP240 high frequency cables are recommended with this antenna. Cable assemblies or mount/cable assemblies are sold separately.	Various connector options are offered with PCTEL high frequency mounts (sold separately)	For optimal performance, use higher frequency rated mounts (e.g. MLFML195C or GMLFML195C). Mounts sold separately.	Black
BMLPV5000-VP		N Female	Built-in N connector accommodates surfaces up to 1/2-in thick	Black

## Electrical Specifications – All frequencies

Frequency Ranges	Max. Gain <sup>1</sup>	Maximum Power	Polarization	Nominal Impedance	VSWR <sup>1</sup>	Average Efficiency
618 - 960 MHz	2.6 dBi	150 watts	Vertical, linear	50 ohms	< 2.0	60%
1427 - 1518 MHz	-0.2 dBi				< 2.5	30%
710 - 2170 MHz	1.0 dBi				< 2.5	46%
2300 - 2700 MHz	1.6 dBi				< 3.0	61%
3300 - 4200 MHz	2.3 dBi				< 1.5	31%
4400 - 5000 MHz	1.2 dBi				< 3.0	26%
4900 - 5985 MHz	3.1 dBi				< 2.5	40%
5925 - 7125 MHz	9.6 dBi				< 2.5	68%

## Mechanical and Environmental Specifications

Model	Dimensions (OD x Height)	Weight (Mass)	Temperature Range	Ingress Protection <sup>2</sup>	Housing Color
BMLPV5000	1.43" x 3.28" (3.63 x 8.33 cm)	0.29 lbs (0.13 kg)	-40°F to +158°F (-40°C to +70°C)	IP67 <sup>3</sup>	Black
BMLPV5000-VP	1.43" x 4.4" (3.63 x 11.18 cm)	0.31 lbs (0.14 kg)			

<sup>1</sup>Measured on a 1x1 ft ground plane, when installed on GMLFML195 high frequency magnetic mount with 12-ft Pro-Flex Plus 195 cable. Gain is ground plane dependent. <sup>2</sup>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](https://pctel.com/antenna-products)**

### **Solving Complex Wireless Challenges**

PCTEL is a leading global provider of wireless technology, including purpose-built Industrial IoT devices, antenna systems, and test and measurement solutions. Trusted by our customers for over 25 years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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