

Multiband Low Profile Antenna Series

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

MLPV Series



Description

Industry-leading wideband performance and reliability.

Technologies

- Cellular

Features

- Outstanding coverage across multiple frequency bands with no tuning required
- Low profile design for maximum overhead clearance
- Wideband, multiband, and no ground plane models available
- "Easy Grip" HD models available
- N Female termination option available on select models (VP Option)





BMLPV800HD



BMLPVMB-LTE

Multiband Low Profile Antenna Series

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

With superior pattern coverage for mobile and fixed applications across a wide range of frequencies, the MLPV series antennas deliver industry-leading wideband performance and reliability, with minimum loss and no tuning required. Antennas can be purchased separately, or as a kit assembly. Multiband models are available.

Features

- Industry leading wideband performance — Outstanding coverage across multiple frequency bands with no tuning required
- Low profile design — For maximum overhead clearance
- Range of selections — Wideband, multi-band, no ground plane and “Easy Grip” HD models available; N Female termination option available on select models (VP Option)

Applications

- Indoor and outdoor applications

Certifications



Multiband Low Profile Antenna Series

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

Standard Configurations

Model	Mount
MLPV380	All models mate with 1-1/8"-18 thread mounts, including mounts (sold separately)
BMLPVMB/LTE	
WMLPVMB/LTE	For models operating at frequencies over 600 MHz, high frequency mounts are recommended. See table below.
LPBMLPVMB/LTE	
BMLPV700	
BMLPV800	
BMLPV800HD	
BMLPVD800/1900HD	
BMLPVD-2458	
BMLPV4900	

Mount Options

Mount	Installation Type	Cable	Connector	Supported Frequency Range
MLFML195C	High performance permanent mount 3/4" hole, 1-1/8"-18 thread interface	17 ft Pro-Flex™ Plus 195	TNC male (loose)	Optimized for frequencies over 600 MHz <i>Configurable</i>
GMLFML195C	High performance magnetic mount 3-1/4" diameter base, 1-1/8"-18 thread interface	12 ft Pro-Flex™ Plus 195	TNC male (attached)	Optimized for frequencies over 600 MHz <i>Configurable</i>
MTPM800	5/8" hole, 1-1/8"-18 thread mount for surfaces up to 1/2-inch thick	No cable*	N Female	24 MHz - 6 GHz
MVPHP	5/8" hole, vandal-proof mount <i>Add suffix "VP" to the MLPV part number to have this mount permanently installed at the factory. VP option will not be removable from factory installed "VP" antennas. (example: BMLPVD800/1900SVP)</i>	No cable*	N Female	24 MHz - 6 GHz
MMF	3/4" hole, 1-1/8"-18 mount	No cable*	SMA Male	24 MHz - 6 GHz
MMF-VP	3/4" hole vandal-proof mount 1-1/8"-18 thread interface for surfaces up to .09-inch thick	No cable*	SMA Male	0 GHz to 6 GHz

* Order cable assembly separately

Multiband Low Profile Antenna Series

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

Electrical Specifications

Model	Frequency Ranges	Gain*	VSWR	Maximum Power	Nominal Impedance	Polarization
MLPV380	380-410 MHz	Unity	< 2.0:1	100 watts	50 ohms	Vertical
BMLPVMB/LTE	600-690 MHz 698-960 MHz 1710-2700 MHz	3 dBi	3.0:1 < 2.5:1 < 2.5:1			
WMLPVMB/LTE	600-690 MHz 698-960 MHz 1710-2700 MHz	3 dBi	3.0:1 < 2.5:1 < 2.5:1			
LPBMLPVMB/LTE	698-3800 MHz	3 dBi	< 2.0:1			
BMLPV700	740-870 MHz	3 dBi	< 2.0:1			
BMLPV800	806-960 MHz	3 dBi	< 2.0:1			
BMLPV800HD	806-960 MHz	3 dBi	< 2.0:1			
BMLPVD800/1900HD	806-960 MHz 1710-1990 MHz	3 dBi/4 dBi	< 2.0:1			
BMLPVBD-2458	2.4-2.5 GHz 4.9-5.9 GHz	3 dBi/4 dBi	< 2.0:1	150 watts	50 ohms	Vertical
BMLPV4900	4.9-5.9 GHz	4 dBi	< 1.5:1			

Mechanical and Environmental Specifications

Model	Dimensions (H x OD)	Weight	Color Options ²	Housing Material	Temperature Range	Ingress Protection
MLPV380	3.38 H x 1.50 OD in (8.59 x 3.81 cm)	0.31 lbs (.14 kg)	Black-Chrome Black	XENOY 5720U-7014 UV-Stable	-40°C to +85°	IP67
BMLPVMB/LTE	2.40 H x 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	Black			
WMLPVMB/LTE	2.40 H x 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	White-Chrome			
LPBMLPVMB/LTE	2.40 H x 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	Black-Chrome			
BMLPV700	2.40 H x 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	Black-Chrome Black White-Chrome			
BMLPV800	2.40 H x 1.50 OD in (6.10 x 3.81 cm)	0.29 lbs (0.13 kg)	Black-Chrome Black White-Chrome			
BMLPV800HD	At base: 2.40 H x 1.50 W x 1.70 D in (6.10 x 3.81 x 4.32 cm)	0.44 lbs (0.19 kg)	Black			
BMLPVD800/1900HD	At base: 2.40 H x 1.50 W x 1.70 D in (6.10 x 3.81 x 4.32 cm)	0.44 lbs (0.19 kg)	Black-Chrome Black White-Chrome			
BMLPVBD-2458	1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.34 lbs (0.15 kg)	Black-Chrome Black			
BMLPV4900	1.79 H x 1.50 OD in (4.55 x 3.81 cm)	0.34 lbs (0.15 kg)	Black			

¹ Measured on a 1 x1 foot diameter ground plane. Gain is ground plane dependent.

² Black-Chrome is standard for all MLPV models, unless otherwise indicated. For all black option, add prefix "B" to the MLPV part number. Example: BMLPV800. For White-Chrome option, add prefix "W" to the MLPV part number. Example: WMLPV800.

CONTACT US

**For more information about
this product contact your
sales representative or visit
> pctel.com/antenna-products**

Solving Complex Wireless Challenges

PCTEL is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for 29+ years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



PCTEL, Inc.

T: +1 630 372 6800 | pctel.com

Specifications subject to change without notice. PCTEL® is a registered trademark of PCTEL, Inc. Bluetooth® is a registered trademark of SIG, Inc. ©2023 PCTEL, Inc. All rights reserved. (November 2023)