



BMLPV UHF Model



MLPV800



WMLPVDB800/1900S



BMLPV800HD



Technical Data

Maximum Power: 150 watts (all models, except UHF and dual band models) 100 watts (UHF and dual band models)
Polarization: Vertical
Nominal Impedance: 50 Ohm
VSWR: < 1.5:1 < 2.0:1 (dual-band and UHF models)
Ingress Protection: IP66
Color (add to prefix to indicate choice): Black over chrome (prefix not needed), black over black (B) or white over chrome (W).
Mount Method: Compatible with most 1-1/8" - 18 thread mounts, including 3/4" hole mounts

MLPV Low Profile Vertical Antennas

The MLPV antennas provide superior pattern coverage for mobile and fixed applications from 380 MHz to 5.8 GHz. Their design provides industry leading wideband performance and reliability, with minimum loss and no tuning required. Dual band versions (MLPVDB series) are also available. All models feature an attractive, compact housing environmentally tested for both indoor or outdoor applications.

Features

- Attractive, low profile design for maximum overhead clearance
- Industry leading wideband performance provides outstanding coverage across multiple frequency bands with no tuning required
- Mates with all 1-1/8"-18 thread mounts, including 3/4" mounts
- Wideband, multi-band and no ground plane models available
- Black over chrome base standard. Also available in white over chrome or black over black base
- "Easy grip" HD models available

Mounting

The following mounts are recommended with the MLPV antennas on the next page:

Model	Options
MLFML195C	High performance permanent 3/4" hole, 1-1/8"-18 thread mount. Includes 17 ft of Pro-Flex™ Plus 195 cable. Loose TNC male connector included.
GMLFML195C	High performance permanent 3-1/4" diameter magnetic base, 1-1/8"-18 thread mount. Includes 12 ft of Pro-Flex™ Plus 195 cable terminated with TNC male connector (attached).
MTPM800	5/8" hole, 1-1/8"-18 thread mount for surfaces up to 1/2-inch thick. Terminates in an N, female connector. No cable.*
MVP	5/8" hole, vandal proof mount. No cable.*
MMF	3/4" hole, 1-1/8"-18 mount for frequencies above 1 GHz. Terminates in an SMA, male connector. No cable.*

*Order cable assembly separately.

Antenna Electrical Specifications

Model*	Frequency Range	Bandwidth	Gain***
MLPV380	380-410 MHz	30 MHz	Unity
MLPV406	406-440 MHz	34 MHz	Unity
MLPV430	430-480 MHz	50 MHz	Unity
MLPV450	450-512 MHz	62 MHz	Unity
MLPV698	698-806 MHz	108 MHz	Unity
MLPV700	740-870 MHz	130 MHz	3 dBi***
MLPV800	806-960 MHz	154 MHz	3 dBi***
BMLPV800HD	806-960 MHz	154 MHz	3 dBi***
BMLPVDB700/2500	698-960 MHz and 1710-2500 MHz	262 MHz and 790 MHz	3 dBi/4 dBi
MLPVDB800/1900	806-960 MHz and 1710-1990 MHz	154 MHz and 280 MHz	3 dBi/4 dBi
BMLPVDB800/1900HD	806-960 MHz and 1710-1990 MHz	154 MHz and 280 MHz	3 dBi/4 dBi
MLPVDB800/1900S	806-960 MHz and 1710-2500 MHz	154 MHz and 790 MHz	3 dBi/4 dBi
MLPVDB902/2400	902-928 MHz and 2400-2500 MHz	26 MHz and 100 MHz	3 dBi/4 dBi
MLPVDB902/2400S	902-928 MHz and 2400-2500 MHz	26 MHz and 100 MHz	3 dBi/4 dBi
MLPV1700	1700-2700 MHz	1000 MHz	4 dBi***
MLPVDB2458	2.4-2.5 GHz and 4.9-5.9 GHz	100 MHz / 1000 MHz	3 dBi/4 dBi
MLPV4900	4.9-5.9 GHz	1000 MHz	4 dBi

Mechanical Specifications

Model (all colors)*	Antenna Dimensions	Weight (Mass)	Temperature Range
MLPV380	3.38" H x 1.5" OD	0.31 lbs (.14 kg)	-40° C to 70° C
MLPV406	3.38" H X 1.5" OD	0.31 lbs (.14 kg)	-40° C to 70° C
MLPV430	3.38" H X 1.5" OD	0.31 lbs (.14 kg)	-40° C to 70° C
MLPV450	3.38" H X 1.5" OD	0.31 lbs (.14 kg)	-40° C to 70° C
MLPV698	3.38" H X 1.5" OD	0.31 lbs (.14 kg)	-40° C to 70° C
MLPV700	2.4" H X 1.5" OD	0.29 lbs (0.13 kg)	-40° C to 70° C
MLPV800	2.4" H X 1.5" OD	0.29 lbs (0.13 kg)	-40° C to 70° C
BMLPV800HD	2.4" H x 1.5" W x 1.7" D (at the base)	0.44 lbs (0.19 kg)	-40° C to 70° C
BMLPVDB700/2500	2.4" H x 1.5" OD	0.29 lbs (0.13 kg)	-40° C to 70° C
MLPVDB800/1900	2.4" H X 1.5" OD	0.29 lbs (0.13 kg)	-40° C to 70° C
BMLPV800/1900HD	2.4" H x 1.5" W x 1.7" D (at the base)	0.44 lbs (0.19 kg)	-40° C to 70° C
MLPVDB800/1900S	1.79" H x 1.5" OD	0.29 lbs (0.13 kg)	-40° C to 70° C
MLPVDB902/2400	2.4" H X 1.5" OD	0.29 lbs (0.13 kg)	-40° C to 70° C
MLPVDB902/2400S	1.79" H x 1.5" OD	0.29 lbs (0.13 kg)	-40° C to 70° C
MLPV1700	1.79" H x 1.5" OD	0.34 lbs (0.15 kg)	-40° C to 70° C
MLPVDB2458	1.79" H x 1.5" OD (at the base)	0.34 lbs (0.15 kg)	-40° C to 70° C
MLPV4900**	1.79" H x 1.5" OD (at the base)	0.34 lbs (0.15 kg)	-40° C to 70° C

* To order black over black version, add the prefix "B" to the part number. To order the white over chrome version, add the prefix "W" to the part number. Not all models are available in black or white. Call Customer Service for availability.

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



BMLPV900NGP or
BMLPV2400NGP



BMLPV900NGPVP
or BMLPV2400NGP

No Ground Plane MLPV Low Profile Vertical Antennas

These low profile antennas provide superior pattern coverage for mobile and fixed applications. The no ground plane design provides industry leading performance and reliability, with minimum loss and no tuning required. This antenna series features an attractive, compact housing ideal for both indoor or outdoor applications. Antennas can be purchased separately, or as a kit assembly with the MVP mount for permanent installations (VP option).

Features

- Attractive, low profile design for maximum overhead clearance
- Industry leading performance provides outstanding coverage across multiple frequency bands without a ground plane
- Mates with all 1-1/8"-18 thread mounts, including 3/4" mounts

Electrical Specifications

Model	Frequency Range	Bandwidth	Gain*
BMLPV900NGP(VP)	902-928 MHz	26 MHz	Unity
MLPV2400NGP(VP)	2.4-2.5 GHz	100 MHz	3 dBi



Technical Data

Maximum Power: 100 watts
Polarization: Vertical
Nominal Impedance: 50 Ohm
VSWR: < 2.0:1
Ingress Protection: IP66
Color: Black over black
Mount Method: Compatible with 1-1/8" - 18 thread mounts, including 3/4" hole mounts. See Mounting for recommended mounts.

Mechanical Specifications

Model (all colors)	Antenna Dimensions	Weight (Mass)	Temperature Range
BMLPV900NGP(VP)	3.38" H x 1.5" OD	0.31 lbs (.14 kg)	-40° C to 70° C
MLPV2400NGP(VP)	3.38" H x 1.5" OD	0.31 lbs (.14 kg)	-40° C to 70° C

Mounting

Model	Options
MLFML195C	Permanent mount for frequencies from 800 MHz to 3.0 GHz, 1-1/8"-18 thread. Includes 17 ft of Pro-Flex™ Plus 195 cable. TNC male connector included (loose). Other connector options available.
MVP	5/8" hole, vandal proof mount. No cable.

* Measured on a 4 foot diameter ground plane.

Note: to order antenna with built-in permanent mount, please add suffix "VP" to the antenna part number. For example, BMLPV900NGPVP indicates a 900 MHz NGP antenna with built-in permanent N female bulkhead mount.

Silhouette Low Profile Transit Antennas

The silhouette antennas are designed for transit vehicle installations requiring overhead clearance, including buses, fire-fighting engines, railroad equipment, airport service vehicles, and construction equipment. These low profile multi-band antennas provide wideband coverage of specific frequencies without field tuning required.* They are housed in a high impact molded ASA radome for long-lasting performance under severe environmental conditions. A GPS multi-band model is also available.

Features

- Rugged - high impact molded ASA radome assures long, reliable performance and protection against the elements
- High Performance - when mounted on a flat surface, maximum radiation is vertical and omnidirectional
- Disguised Appearance - low profile for minimum exposure to theft or vandalism
- Wideband Coverage - requires no field tuning

Antenna Electrical Specifications

Model	Frequency Range	Bandwidth	Gain
ASPB574	148-160 MHz	0.5 MHz	Unity
ASPC574	160-174 MHz	0.5 MHz	Unity
ASP572	450-470 MHz	20 MHz	Unity
ASP772	450-470 MHz	20 MHz	Unity
ASPB572	470-488 MHz	18 MHz	Unity
ASPC572	488-512 MHz	24 MHz	Unity
ASP764	764-806 MHz	42 MHz	Unity
ASP931	806-894 MHz	88 MHz	Unity
ASPG931	890-960 MHz	154 MHz	Unity

Mechanical Specifications

Model	Termination	Dimensions
ASPB574	SO-239 (UHF female, panel mount)	4.1" H x 17" L x 3.5" W
ASPC574	SO-239 (UHF female, panel mount)	4.1" H x 17" L x 3.5" W
ASP572	UHF female, panel mount (mates with PL259 male)	3.13" H x 8" L x 3.5" W
ASP772	BNC female bulkhead	3.4" H x 8" L x 3.5" W
ASPB572	UHF female, panel mount (mates with PL259 male)	3.4" H x 8" L x 3.5" W
ASPC572	UHF female, panel mount (mates with PL259 male)	3.4" H x 8" L x 3.5" W
ASP764	N female, panel mount	3.4" H x 8" L x 3.5" W
ASP931	N female, panel mount	3.4" H x 8" L x 3.5" W
ASPG931	N female, panel mount	3.4" H x 8" L x 3.5" W



ASP574 low profile transit antenna series for VHF coverage



ASP931 low profile transit antenna



Technical Data

Maximum Power: 100 watts
Polarization: Vertical
Nominal Impedance: 50 ohms
VSWR: < 2.0:1, maximum
Radome Material: White, high impact molded ASA
Cable: Sold separately. Call factory for cable assembly options.
Mount Method: Standard 1-5/16" roof hole mount Supplied with screws and weather-proof gasket.

PCTHPMIMO - High Performance Multi-Band Mobile MIMO Antenna



PCTHPMIMO



Features

- Multi-band coverage of 2.3-2.8 GHz and 4.9-5.9 GHz broadband wireless frequencies
- Three-port dual band integrated elements terminated with high performance, low loss RG-58/U stranded cable
- Metal 3/4-inch stud mount with slotted jam nut provides single cable exit for easier installation and/or antenna replacement
- Attractive low profile design for maximum installation flexibility without antenna orientation restrictions
- IP67 compliant design with custom overmolded gasket provides maximum protection against water or dust ingress under severe environmental conditions when properly installed on a vehicle's surface
- High performance, low loss cable and high quality connectors for maximum RF system efficiency
- UV resistant black or white housing options complement most vehicular aesthetic requirements

Antenna Electrical Specifications

Frequency Ranges	VSWR (all frequencies)	In-Band Isolation Between Elements	Nominal Gain*	Beamwidth Elevation	Beamwidth Azimuth
2.3-2.8 GHz	< 1.5:1	23 dB	1.5 dBi	30°	360°
4.9-5.9 GHz		26 dB	0.5 dBi	25°	360°

* Measured at the end of the coax



General Specifications

Model Number: PCTHPMIMO
Maximum Power: 25 watts
Polarization: Vertical, linear
Nominal Impedance: 50 Ohm
Housing Color: Black (black gasket)
Housing Material: PC/ABS, UV rated for outdoor use
Mount Method: 3/4-inch hole (19 mm) slotted stud mount with 3/4-16 UNF slotted hex-nut
Coax: Three (3) 12-foot Pro-Flex Plus 195 stranded cable leads
Connector(s): Reverse Polarity, Reverse Threaded SMA Male (all leads)

Mechanical Specifications

Dimensions
5.2 OD x 2.1 inches (132 OD x 53 mm)

Environmental Specifications

Operating Temperature	Storage Temperature	Ingress Protection	Humidity
-40° to +80° C	-50° to +85° C	IP67*	95%

* When properly installed on rooftop surface, according to PCTEL installation instructions

ULTRA-WIDEBAND HIGH PERFORMANCE LOW PROFILE ANTENNA

The PCTUWB-W high performance antenna offers ultra wideband coverage, easy to install design, and “top shelf” materials to provide maximum durability and performance for mobile communications.

Features

- No tune, multi-band coverage: 4G LTE (698 MHz to 6 GHz)
- Highly efficient, Carrier grade design to support modern voice/data mobile networks
- Metal 3/4-inch stud mount with slotted jam nut provides single cable exit for easier installation and/or antenna replacement
- Attractive low profile design for maximum installation flexibility without antenna orientation restrictions
- IP67 compliant design with custom overmolded gasket provides maximum protection against water or dust ingress under severe environmental conditions (when properly installed on a rooftop surface)
- High performance, low loss cable and high quality connectors for maximum RF system efficiency



PCTUWB-W

Electrical Specifications

Operating Frequencies	Polarization	Nominal Impedance	Gain (Typical)	Maximum Power	VSWR
698-2700 MHz 3300-3800 MHz 4.9-5.9 GHz	Vertical, linear	50 ohms	1.7-2.8 dBi 2.5-3 dBi 3-3.5 dBi	50 watts	<2.0:1

Mechanical Specifications

Dimensions	Radome and Baseplate Construction	Mounting Method	Coax	Connectors
5.2" OD x 2.8" H (132 OD x 71 H mm)	Black ² , UV stable CYCOLOY C6200 Radome Zinc baseplate over- molded with black TPE, SANTOPRENE gasket	3/4-inch hole, 3/4-inch long (.75") zinc stud mount with dual jam nuts (included)	17 feet Pro-Flex Plus low loss RG-58 cable	SMA Plug (Male) standard ²

Environmental Specifications

Operating / Storage Temperature	Ingress Protection
-40° C to +85° C	IP67 ³

¹ Measured on a 4-foot diameter ground plane. Gain value is measured at the end of the 17 foot coax.

² Other connector options available. Shown in white. Black radome also available.

³ When properly installed on rooftop surface, according to PCTEL installation instructions