

MAXRAD Low Profile Vertical (MLPV) Series Antennas

The MLPV antenna series provides superior pattern coverage for all mobile and fixed applications using PCS/ISM frequencies from 1700 to 2500 MHz, 800/900 MHz frequencies from 806 to 960 MHz and UHF frequencies from 406 to 512 MHz. Its patent-pending design provides industry leading wideband performance and reliability, with minimum loss and no tuning required. The MLPV antennas feature an attractive compact package and are ideal for indoor or outdoor applications requiring minimum visibility.

Features:

- ◆ **Single wideband MLPV1700 antenna covers PCS and 2.4 GHz ISM frequencies, from 1700 to 2500 MHz**
- ◆ **Single wideband MLPV800 antenna covers frequencies from 806 to 960 MHz**
- ◆ **Three UHF models cover UHF frequencies from 406 to 512 MHz**
- ◆ Patent-pending design
- ◆ Less than 1-7/8" in overall height (MLPV1700 model)
- ◆ Less than 2-1/2" in overall height (MLPV800 model)
- ◆ Less than 3-3/8" in overall height (MLPV UHF models)
- ◆ Excellent pattern coverage for mobile and base station applications
- ◆ 3/4" hole mount allows easy installation and replacement
- ◆ No tuning required



MLPV1700, MLPV406 and MLPV800 antennas

Mechanical Specifications:

Radiator Material:

Solid brass radiator

Mount Type:

3/4" hole mount

PCS/2.4 GHz ISM Antenna Height:

1-7/8" high

800/900 MHz Antenna Height:

2-1/2" high

UHF Antenna Height:

3-3/8" high

Mount Options:

Compatible with various mobile mounts (consult factory for more information)

Electrical Specifications:

Maximum Power:

150 Watts (MLPV1700 and MLPV800)

100 Watts (MLPV 406, 430 and 450)

Nominal Impedance:

50 Ohms

Antenna Type:

Low profile - Vertical

MLPV Series

Model #	Frequency Range	VSWR	Bandwidth	List Price
MLPV1700	1700-2500 MHz	<1.5:1	800 MHz	\$40.00
MLPV800	806-960 MHz	<1.5:1	154 MHz	\$35.00
MLPV450	450-512 MHz	<2.0:1	62 MHz	\$38.00
MLPV430	430-480 MHz	<2.0:1	50 MHz	\$38.00
MLPV406	406-440 MHz	<2.0:1	34 MHz	\$38.00

Feature / Benefit List

- Feature: Broadband performance
Benefit: *The MLPV1700 covers 1800 GSM, 1900 PCS and 2.4 GHz ISM applications. The MLPV800 covers all 800/900 MHz applications, including 800 MHz SMR, 800 MHz cellular, 900 MHz E-SMR, 900 MHz GSM and 900 MHz ISM bands. The MLPV450 covers UHF frequencies from 450-512 MHz.*
- Feature: 3/4" hole mount
Benefit: *Allows easy installation of the low profile antenna into an existing mount.*
- Feature: Patent-pending design
Benefit: *Provides industry-leading broadband performance in an attractive, compact package.*
- Feature: U.V. stable coil housing
Benefit: *Protects the low profile antenna from fading or cracking under direct sunlight, even after years of service.*
- Feature: Efficient radiator design with rugged solid brass construction
Benefit: *Provides extremely efficient power handling that offers superior wideband performance and reliability with minimum loss, for both indoor or outdoor applications.*

Frequently Asked Questions

- Question: How do these antennas compare with quarter wave antennas?
Answer: *MAXRAD MLPV antennas outperform any quarter wave antenna. Maximum performance can still be achieved with a traditional MAXRAD 5 dB gain mobile antenna.*
- Question: Do the MLPV antennas require tuning?
Answer: *No. The antennas feature a patent-pending design that covers 1700-2500 MHz, 806-960 MHz, 406-440 MHz, 430-480 MHz and 450-512 MHz depending on the model.*
- Question: Do the antennas require a ground plane?
Answer: *Yes. The standard MLPV antennas require a ground plane.*