

LPDA-0803 Log Periodic Dipole Array

Product Overview

The TDK PDA-0803 Log Periodic Dipole Antenna provides strong performance over the entire frequency range of 80 MHz to 3 GHz. The LPDA-0803 features enhanced gain over standard log periodic dipole antennas (6 dBi at the low end to 8 dBi on the high end) and high power handling capabilities (500W) to accommodate a broad range of both immunity and emissions test requirements.

High Performance The unique design of the tip of the LPDA-0803 provides reduced cross polarization, increased gain, and improved pattern symmetry at the high end of the operating frequency range (1.5 GHz - 3 GHz).

Robust Design The LPDA-0803 features an ultra-robust mechanical design, resilient gold chromate finish, and a highly durable feed to withstand the rigors of daily use in EMC test environments. The antenna can be mounted on a conventional antenna tower or on EMC Automation's Short Vertical Mast.



The LPDA-0803 Log Periodic Dipole Antenna covers the operating frequency range of 80 MHz to 3 GHz with enhanced gain over standard log periodic antennas.

Features

- Wide frequency range of 80 MHz to 3 GHz
- Enhanced gain over competitive designs
- Moderate power handling (500W)
- Robust mechanical and feed design
- Individually calibrated according to ANSI C63.5, with signed certificate of calibration

Applications

- IEC 1000-4-3 Immunity Testing
- Emissions Testing

Options

- **Manual Vertical Mast MVM-200R**
The TDK MVM-200R antenna mast provides manual control of the height, tilt, and polarization. The MVM-200R adjusts from 1 m to 1.5 m in height and supports antennas up to 18 kg.

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Electrical Specifications

| | |
|----------------------|-----------------|
| Frequency Range: | 80 MHz to 3 GHz |
| Gain: | 6 – 8 dBi |
| VSWR: | < 2:1 average |
| Polarization: | Linear |
| Power Handling: | 500W CW |
| Feedpoint Impedance: | 50 ohms nominal |

Mechanical Specifications

| | |
|---------------|------------------------------------|
| Size: | 155 cm x 170 cm (61" L x 67" W) |
| Weight: | 4 kg (9 lbs.) |
| Construction: | Aluminum with gold chromate finish |
| RF Connector: | N-type female |

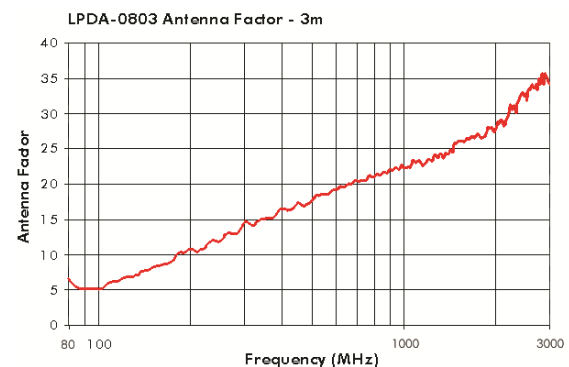
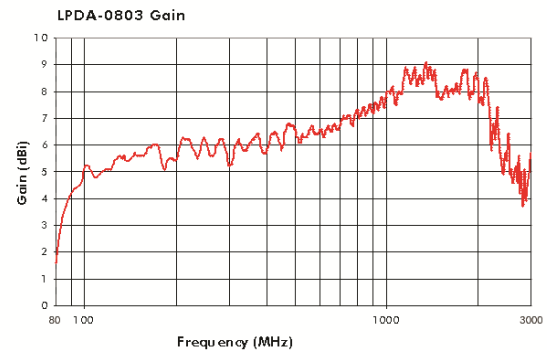
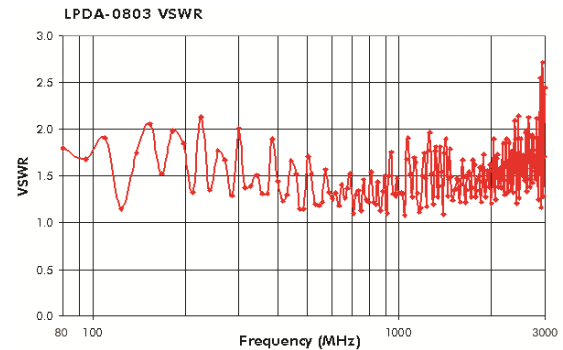
Ordering Information

| | |
|---------------|-----------------------------|
| Product: | Log Periodic Dipole Antenna |
| Model Number: | LPDA-0803 |
| Warranty: | 1 year limited |

To place an order or to learn more about the TDK products that best meet your needs, contact your TDK sales representative:

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Antenna Data



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