

LPDA-0803 Log Periodic Dipole Array

Product Overview

TDK RF Solutions' LPDA-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.



TDK RF Solutions' 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**
TDK RF Solutions' 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.

LPDA-0803 Log Periodic Dipole Antenna

Electrical Characteristics

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

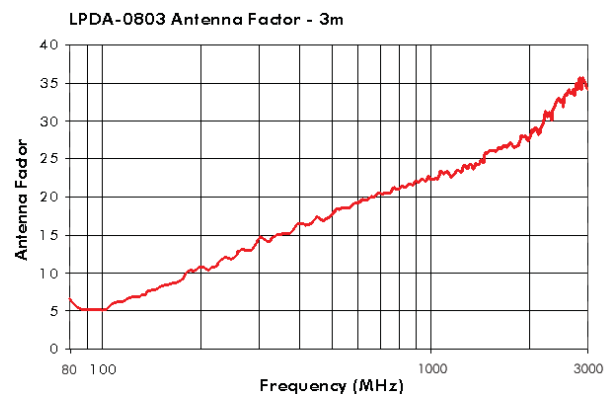
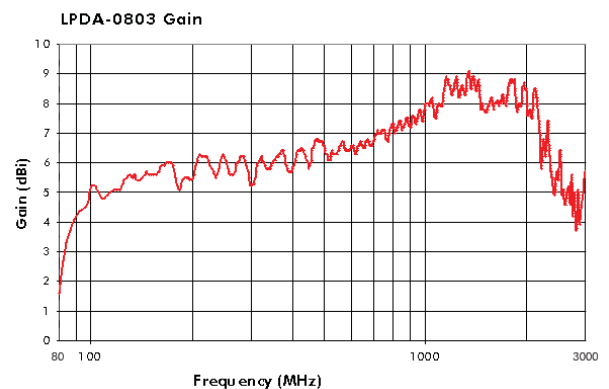
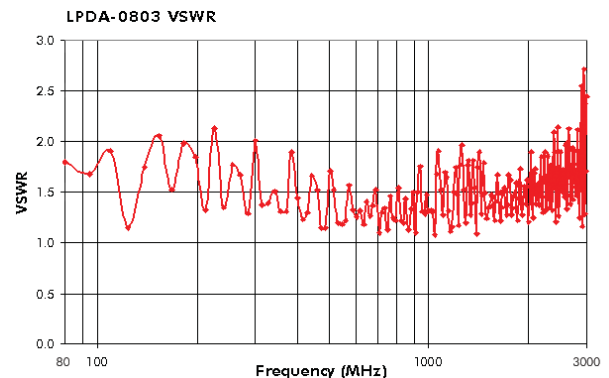
Size:	155 cm x 170 cm (61" L x 67" W)
Weight:	4 kg (9 lbs.)
Construction:	Aluminum with gold chromate finish
RF Connector:	N-type female

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 RF Solutions products that best meet your needs, contact your TDK sales representative:

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