# Data Sheet

# 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 handing 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 ultrarobust 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

# **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.



# LPDA-0803 Log Periodic Dipole Array

# **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)

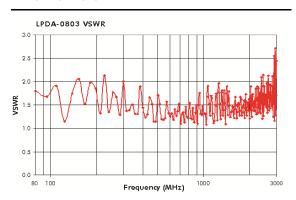
Weight: 4 kg (9 lbs.)

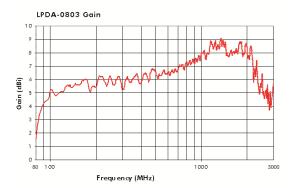
Construction: Aluminum with gold

chromate finish

RF Connector: 7/16 female

## Antenna Data





# **Ordering Information**

Product: Log Periodic Dipole An-

tenna

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:

# **TDK RF Solutions Inc.**

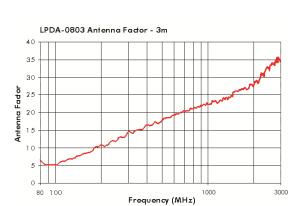
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