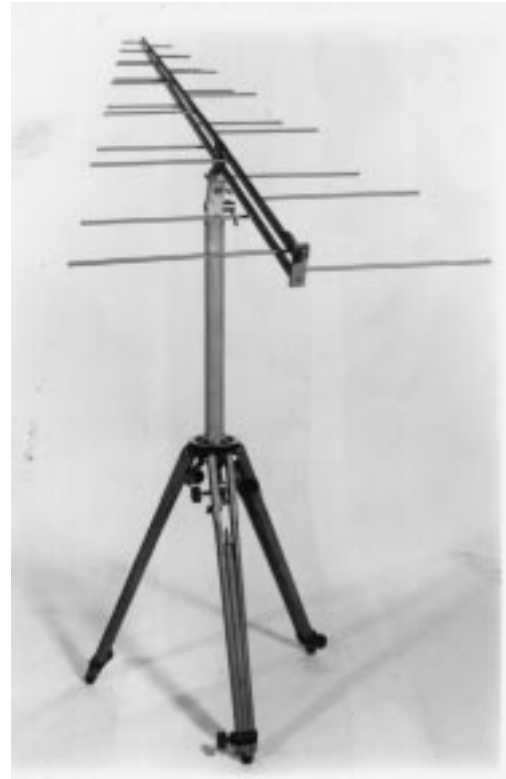


LINEARLY POLARIZED

Our **LPD series** antennas are lightweight, medium gain, log periodic dipoles designed to transmit and receive signals over a broad frequency range. These antennas are characterized by a high front-to-back ratio, excellent SWR and power gain at all frequencies in the band.

High quality aluminum construction with all stainless steel hardware make for a lightweight, high strength antenna that will provide years of trouble-free operation. Also available is an assortment of low-profile **LPD's** constructed on cost saving copper-clad dielectric material. These antennas exhibit the same performance standards as our other antennas, but with cost savings to the consumer.

All **LPD antennas** are linearly polarized. Polarization adjustment is possible, in any plane, with a universal joint. Standard **LPD antennas** are intended for relatively permanent installations. **LPD series** antennas operating below 400 MHz are also supplied in a kit form for compactness in packaging and ease of transportation. Antennas in the kit form assemble easily with minimum tool requirements. Log Periodics operating above 400 MHz are designed for end mount installations. The end support makes them ideally suited for use in high-gain, directional log periodic arrays.



LPD-2010/C

DUAL POLARIZED

LPC series antennas comprise two planar log periodic structures in quadrature on a common axis. Standard **LPC antennas** are supplied with two output connectors. Switch assemblies and switch control units are available, for use with **LPC antennas**, to yield vertical, horizontal, right circular or left circular polarizations. These antennas are characterized by a high front-to-back ratio, excellent SWR and power gain at all frequencies in the band.

ARRAYS, HIGH GAIN

LPA series log periodics are high gain log periodic arrays comprising two or more log periodic elements. The **LPA series** antennas operating below 400 MHz are packaged in a kit form for compactness and ease of transportation. One person in the field can easily assemble these antennas.

The Vee configuration **LPV series** log periodic antennas give greater power gain than that obtainable with a planar log-periodic antenna of the same length and taper. The **LPV-2010/C** consists of a set of printed circuit board panels that attach to a rigid Vee-shaped frame with thumbscrews. The short length of the **LPV-2010/C** antenna restricts the movement of the active region as a function of frequency to a relatively small volume, which is desirable in RFI measurements. The antenna disassembles in a few minutes without the use of tools, for storage or transportation. The **LPD**, **LPC** and **LPA** antennas covering other frequency bands are also available. Individually calibrated linear and dual polarized log periodic antennas, for FCC, VDE, MIL-STD and TEMPEST testing are also available. For a complete listing of individually calibrated antennas, please refer to the last section of this catalog.

LOG PERIODIC DIPOLES DUAL POLARIZED

LPC-8100/C - TYPICAL E-FIELD ANTENNA FACTOR AND GAIN

| FREQUENCY (MHz) | 80 | 90 | 100 | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 850 | 1000 |
|--------------------------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| AFE (dBm ⁻¹) | 1.4 | 2 | 3.1 | 9.0 | 11.1 | 12.5 | 15.9 | 15.5 | 17.8 | 20.2 | 22.1 | 23.0 |
| GAIN (dBi) | 6.9 | 7.3 | 7.1 | 7.2 | 7.1 | 7.3 | 6.4 | 8.7 | 8.0 | 6.9 | 6.7 | 7.2 |

SPECIFICATIONS:

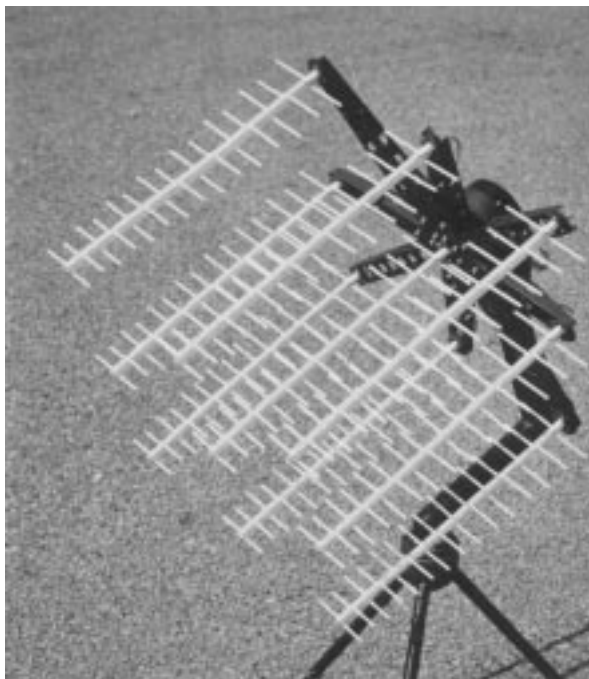
IMPEDANCE: 50 OHMS, NOMINAL
CONNECTOR: N FEMALE

F/B RATIO: 20 dB MINIMUM
CONSTRUCTION: ALUMINUM

VSWR: 2 : 1

| MODEL | FREQUENCY (MHz) | GAIN (dBi) | POWER CW | DIMENSIONS L x W x H | MOUNTING | WEIGHT (LBS/KG) |
|--------------|-----------------|------------|----------|----------------------|----------|-----------------|
| LPA-150/4 | 100 - 500 | 12 | 200 W | 90" x 60" x 60" | Center | 75/34 |
| LPA-2201/A1* | 220 - 1000 | 12 | 1 kW | 58" x 30" x 33" | Rear | 20 / 9 |
| LPA-2240 | 225 - 400 | 10 | 100 W | 35" x 32" x 30" | Rear | 15 / 7.0 |
| LPA-4710/4 | 440 - 1000 | 12 - 14 | 100 W | 24" x 24" x 24" | Rear | 20 / 9 |
| LPA-612 | 600 - 1200 | 14 - 18 | 500 W | 24" x 41" x 41" | Rear | 20 / 9 |
| LPA-850/8 | 780 - 960 | 17.5 | 100 W | 26" x 30" x 30" | Rear | 34 / 15.3 |
| LPA-820/8 | 800 - 2000 | 16 - 19 | 500 W | 24" x 40" x 40" | Rear | 30 / 13.5 |
| LPV-2010/C | 200 - 1000 | 7.0 | 100 W | 27" x 15" x 29" | Center | 8 / 3.6 |

*Specify Model LPA-2201/A2 for 2kW CW Power rating



LPA-850/8



LPV-2010/C