



# ANTENNA EXPERTS

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**Model LP-500-2000** **500 – 2000 MHz.** **9 dBi. Gain**

## LOG PERIODIC DIPOLE ANTENNA

**DESIGN FEATURES:** The LP-500-2000 log periodic dipole antenna is designed to provide wideband directional transmission/reception of radio signals from 500 to 2000 MHz bands. The compact size of the log periodic antenna allows easy handling and specially designed mounting arrangement results in fast installation. The extra spacers are used between the support booms to improve mechanical durability of antenna. This high gain LPA provides strong performance over the entire frequency of 500-2500 MHz as the LPDA does not use loading technique to reduce the overall size of array.



**CONSTRUCTIONS:** The log periodic dipole antenna is supplied complete in assembled condition. The LP-500-2000 assembled log periodic antennas outer-most dimensions are 0.65 meter (2.1 feet) long and 0.3 meter (1 foot) wide. The log periodic antenna operates at D.C. ground with low resistance discharge path for protection against lightning and for immunity to noise. Output of log periodic antenna is provided via low loss coaxial cable at the back end of the antenna boom. All the screws, nuts and bolts of log periodic dipole antenna are made of stainless steel.

### ELECTRICAL SPECIFICATIONS:

Frequency Range	500 - 2000 MHz.
Gain	9 dBi.
Bandwidth	Entire Band
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beam width – Half Power Points	65 Degrees
Front to Back Ratio	18 dB.
VSWR	1:2.0
RF Power Handling Capacity	250 Watts
Input Termination	N-Female
Lightning Protection	Direct Ground

### MECHANICAL SPECIFICATIONS:

Support Booms & Radiating Elements Materials	6063T6 Aluminum
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	650 mm
Overall Width	300 mm
Shipping Length	750 mm
Support Boom - Materials	Aluminum - Square Tube
Elements - Materials	Aluminum - Round Rod
Insulator Material	Nylon & Teflon
Mounting Clamps Position	At the back end of antenna
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Gross Weight	3.5 Kgs.

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Note: All information contained in the datasheet is subject to change without any prior notice.