



# ANTENNA EXPERTS

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**Model # LP-1200-1600                      1200 – 1600 MHz.                      11 dBi. Gain**

## HIGH GAIN LOG PERIODIC DIPOLE ANTENNA

**DESIGN FEATURES:** The LP-1200-1600 log periodic dipole antenna is designed to provide wideband directional transmission/reception of radio signals from 1200 to 1600MHz bands including GPS L1 and GPS L2 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. The log periodic dipole antenna is supplied complete in assembled condition. This high gain LPA provides strong performance over the entire frequency of 1200-1600MHz as the LPDA does not use loading technique to reduce the overall size of array. Powder coating of the complete log periodic antenna provides extra protection against corrosion in saline weather present in coastal areas.



**CONSTRUCTIONS:** The high gain log periodic dipole antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminum alloy with powder coating finish to protect the antenna further from severe environmental condition. The LP-1200-1600 assembled log periodic antennas outer-most dimensions are 0.45 meter (18 Inches) long and 0.13 meter (5 Inches) 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	1200 - 1600 MHz.
Gain	11 dBi.
Bandwidth	Entire Band
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beam width – Half Power Points	50 Degrees
Vertical Beam width – Half Power Points	40 Degrees
Front to Back Ratio	19 dB.
VSWR – better than	2:1
RF Power Handling Capacity	100 Watts
Input Termination	N-Female
Lightning Protection	Direct Ground

### MECHANICAL SPECIFICATIONS:

Support Booms & Radiating Elements Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	450 mm
Overall Width	130 mm
Shipping Length	500 mm
Support Boom - Materials	Aluminum - Square Tube
Elements - Materials	Aluminum - Round Rod
Mounting Clamps Position	At the rear end of antenna
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Gross Weight	2.0 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.