



# ANTENNA EXPERTS

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Model LPDP-1200-1600                      1200 – 1600 MHz.                      11 dBi. Gain

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## DUAL POLARIZED CROSS ELEMENTS LOG PERIODIC DIPOLE ANTENNA

**DESIGN FEATURES:** The LPDP-1200-1600 dual polarized log periodic antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminum alloy. It is designed to provide wideband directional transmission/reception of horizontal and vertical radio signals from 1200-1600 MHz bands. The extra spacers are used between the support booms to improve mechanical durability of antenna. The specially designed mounting arrangement results in fast installation. This dual polarized log periodic dipole antenna system is particular suitable for transmission, reception, monitoring, scanning and jamming applications due to its capability of receiving/transmitting both the E & H polarized signals simultaneously. This high gain cross LP provides strong performance over the entire frequency of 1200-1600 MHz as the LPDA does not use loading technique to reduce the overall size of array.

**CONSTRUCTIONS:** The LPDP-1200-1600 assembled log periodic antennas outer-most dimensions are 0.45 meter (20) long and 0.12 meters (5 Inches) width & height. The antenna is supplied complete in assembled condition. The antenna is also supplied with powder coating finish to protect the antenna further from severe environmental conditions. The mounting hardware is permanently welded at the back end of the support boom eliminating the requirements of non-metallic isolated pole/mast. All the elements are welded at points along the support boom. The log periodic antenna operates at D.C. ground with low resistance discharge path for protection against lightning and immunity to noise. All the screws, nuts and bolts of dual log periodic dipole antenna are made of type 316 marine grade stainless steel.

### ELECTRICAL SPECIFICATIONS:

Frequency Range	1200-1600 MHz.
Gain	11 dBi.
Bandwidth	Entire Band
Polarization	Dual - Vertical and Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beam-width –Half power Points.	50 Degrees
Front to Back Ratio	17 dB.
Cross Polarization Discrimination – Greater than	25 dB.
VSWR – Better than	2.5:1
RF Power Handling Capacity	250 Watts
Input Termination	2 x N-Female
Lightning Protection	DC Ground

### MECHANICAL SPECIFICATIONS:

Support Booms & Radiating Elements Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Net Weight Approx.	3 Kgs.
Wind Rating	200 km/Hr.
Overall Length	450 mm (20 Inches)
Overall Width	120 mm (5 Inches)
Support Boom - Material – Cross Section	Aluminum – Square Tube
Elements - Materials - Cross Section	Aluminum - Round Rod
Mounting Clamps Position	At rear end of the Support Boom
Maximum Mount Pipe Diameter	52mm (2 Inches)

### 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.