



ANTENNA EXPERTS

E-mail: info@antennaexperts.in Website: www.antennaexperts.in

Model # LP-600-1000 600 –1000 MHz. 12 dBi Gain

Log Periodic Dipole Antenna

DESIGN FEATURES: The LP-600-1000 log periodic dipole antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminum alloy is designed to provide wideband directional radio signals from 600 to 1000 MHz frequency band. The extra spacers are used between the support booms to improve mechanical durability of antenna. The mounting bracket is welded at the back end of the dual booms of log periodic antenna which permits to change the polarization from horizontal to vertical and vice-versa. This log periodic dipole antenna system is particular suitable for transmission, reception or monitoring and jamming application due to its broadband design feature and small size. This log periodic antenna provides strong performance over the entire band. Log periodic antenna 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-600-1000 log periodic antennas outer-most dimensions are 0.6 meters (24 Inches) long and 0.25 meters (10 Inches) wide. Output of log periodic antenna is provided via low loss coaxial cable at the back end of the antenna boom. The log periodic antenna operates at D.C. ground with low resistance discharge path for protection against lightning and immunity to noise. The coaxial cable sealed inside the support boom to make it weatherproof. All the screws, nuts and bolts of log periodic dipole antenna are made of marine grade stainless steel. Powder coating of the complete log periodic antenna provides extra protection against corrosion in saline weather present in coastal areas. The antenna can be supplied with radome/housing (optionally).

ELECTRICAL SPECIFICATIONS:

Frequency Range	600 -1000 MHz.
Gain	12 dBi.
Bandwidth	Entire Band
Polarization	Vertical or Horizontal
Input Impedance	60 Ohms
Radiation Pattern	Directional
Beam-width –Half Power Points	50 Degrees
Front to Back Ratio	17 dB.
VSWR – Equal to or Better Than	2.5:1
RF Power Handling Capacity	250 Watts
Input Termination	N-Female
Lightning Protection	Direct Ground

MECHANICAL SPECIFICATIONS:

Antenna Materials	All Aluminum
Mounting Hardware	Stainless Steel
Gross Weight	2 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	600 mm
Shipping Length	650 mm
Support Boom -Cross Section –Outer diameter	Aluminum-Square Tube-25.4mm
Elements -Cross Section –Outer diameter	Aluminum-Round Rod- 12-8mm
Insulator Material	Teflon & Nylon
Maximum Mount Pipe Diameter	52 mm (2 Inches)

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-) 30 to +75 Degrees Celsius
Storage Temperature	(-) 40 to +85 Degrees Celsius
Humidity	0 to 95% RH

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