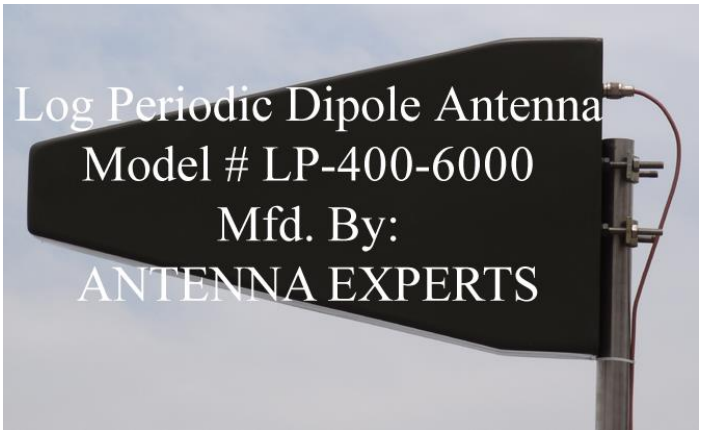
ANTENNA EXPERTS

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

Model LP-400-6000 400 – 6000 MHz. 8 dBi. Gain

HIGH GAIN LOG PERIODIC DIPOLE ANTENNA

DESIGN FEATURES: The LP-400-6000 log periodic dipole antenna log periodic dipole antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminum alloy is designed to provide wideband directional radio signals from 400 to 6000 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-400-6000 assembled log periodic antennas outer-most dimensions are 0.65 meter (26 Inches) long and 0.38 meter (15 Inches) wide. 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 is supplied with radome/housing with olive green color.

ELECTRICAL SPECIFICATIONS:	
Frequency Range	400 - 6000 MHz.
Gain - Typical	8 dBi.
Bandwidth	Entire 400-6000MHz Band
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beam width – Half Power Points	65 +/-10 Degrees
Front to Back Ratio	17 +/-3 dB.
VSWR – Equal to better than	1:2.5
RF Power Handling Capacity	100 Watts @ 6GHz
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	650 mm
Overall Width	380 mm
Shipping Length	750 mm
Support Boom - Materials	Aluminum - Square Tube
Elements - Materials	Aluminum - Round Rod
Mounting Clamps Position	At the back end of antenna
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Gross Weight - Approx	4.5 Kgs.
ENVIRONMENTAL SPECIFICATIONS:	
Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Please contact us for further information like radiation patterns and VSWR curve.

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