



ANTENNA EXPERTS

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Model # LP-200-500 200 – 500 MHz. 11 dBi Gain

Log Periodic Dipole Antenna

DESIGN FEATURES: The LP-200-500 log periodic dipole antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminum alloy is designed to provide wideband directional radio signals from 200 to 500 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. The coaxial cable sealed inside the support boom to make it weatherproof. 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 LP-200-500 assembled log periodic antennas outer-most dimensions are 1.4 meters (4.5 feet) long and 0.75 meters (2.45 feet) wide. The antenna has removable elements, the longest of which is 0.36 meter. All elements are supplied in two segments for easy of shipping and handling. The elements are attached via a fast deployment studs & nuts system at points along the 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 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.

ELECTRICAL SPECIFICATIONS:

Frequency Range	200 -500 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+/-3 Degrees
Front to Back Ratio	18+/-1 dB.
VSWR – Equal to or Better Than	1.8:1
RF Power Handling Capacity	300 Watts
Input Termination	N-Female or N-Male
Lightning Protection	Direct Ground

MECHANICAL SPECIFICATIONS:

Antenna Materials	6063t6 Aluminum Alloy
Mounting Hardware	Marine Grade Stainless Steel
Gross Weight	6 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	1.40 Meters
Shipping Length	1.45 Meters
Support Boom -Cross Section –Outer diameter	Aluminum-Square Tube-25.4mm
Elements -Cross Section –Outer diameter	Aluminum-Round Tube- 12.7mm
Maximum Mount Pipe Diameter	52 mm (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.