



ANTENNA EXPERTS

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Model LP-500-2500 500 – 2500 MHz. 9 dBi. Gain

LOG PERIODIC DIPOLE ANTENNA

DESIGN FEATURES: The LP-500-2500 log periodic dipole antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminum alloy is designed to provide wideband directional radio signals from 500 to 2500 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-500-2500 assembled log periodic antennas outer-most dimensions are 0.66 meter (26 Inches) long and 0.37 meter (14.5 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 can be supplied with radome/housing (optionally).



ELECTRICAL SPECIFICATIONS:

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|---|------------------------|
| Frequency Range | 500 - 2500 MHz. |
| Gain | 9 dBi. |
| Bandwidth | Entire Band |
| Polarization | Vertical or Horizontal |
| Input Impedance | 50 Ohms |
| Radiation Pattern | Directional |
| Horizontal Beam width – Half Power Points | 65 +/-5 Degrees |
| Front to Back Ratio | 18 +/-2 dB. |
| VSWR | 1:2.5 |
| RF Power Handling Capacity | 150 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 | 660 mm |
| Overall Width | 370 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 | 2.5 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 azimuth & elevation radiation patterns and frequency Vs VSWR graph.

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