



ANTENNA EXPERTS

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

Model LP-118-400

118 – 400 MHz.

9 dBi Gain

VHF/UHF Aviation Band Log Periodic Dipole Antenna

DESIGN FEATURES: The LP-118-400 log periodic dipole antenna is designed to provide wideband directional radio signals from 118 to 400 MHz frequency band. The extra spacers are used between the support booms to improve mechanical durability of antenna. The mounting arrangement of log periodic antenna 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 purpose.



CONSTRUCTIONS: The LP-118-400 assembled log periodic antennas outer-most dimensions are 1.4 meters (4.6 feet) long and 1.25 meters (4.1 feet) wide. The antenna has foldable elements, the longest of which is 0.63 meter. All elements are supplied in two segments for easy of shipping and handling. The elements are attached via a fast deployment self-locking device 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 stainless steel.

ELECTRICAL SPECIFICATIONS:

Frequency Range	118 - 400 MHz.
Gain	9 dBi.
Bandwidth	Entire Band
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Beam-width –Half Power Points	70 Degrees
Front to Back Ratio	15 dB.
VSWR – Equal to Better Than	2:1
RF Power Handling Capacity	500 Watts
Input Termination	N-Female
Lightning Protection	Direct Ground

MECHANICAL SPECIFICATIONS:

Antenna Materials	All Aluminum
Mounting Hardware	Stainless Steel
Gross Weight	6 Kgs.
Wind Rating	200 Km/hr.
Overall Length	1.4 Meters
Shipping Length	1.5 Meters
Support Boom -Cross Section –Outer diameter	Aluminum-Square Tube-25.4mm
Elements -Cross Section –Outer diameter	Aluminum-Round Tube-19 - 12mm
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