



# ANTENNA EXPERTS

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**Model # LP-100-3000**

**100 – 3000 MHz.**

**6 dBi. Gain**

## TACTICAL LOG PERIODIC DIPOLE ANTENNA

**DESIGN FEATURES:** The LP-100-3000 tactical log periodic dipole antenna use 6063T6 ultra corrosion resistant architectural anodized aluminum alloy and designed to provide wideband directional transmission/reception of radio signals from 100-3000 MHz bands. The complete tactical log periodic antenna is supplied with powder coating to protect it further from severe environmental conditions. The extra spacers are used between the support booms to improve mechanical durability of tactical log periodic antenna. The specially designed mounting arrangement results in fast installation. The tactical LP antenna can be assembled in less than 5 minutes. This tactical log periodic dipole antenna system is particular suitable for transmission, reception, monitoring, scanning and jamming applications due to its broad band design feature, and small size. Powder coating of the complete log periodic antenna provides extra protection against corrosion in saline weather present in coastal areas. This log periodic antenna provide strong performance over the entire 100-3000 MHz band log periodic antenna does not use loading technique to reduce the overall size of array. The shipping length of antenna is 6.6 feet making it highly suitable for mobile and tactical applications.

**CONSTRUCTIONS:** The LP-100-3000 assembled tactical log periodic antennas outer-most dimensions are 1.7 meters (6.6 feet) long and 1.5 meters (5 feet) wide. The tactical LP antenna has removable elements, the longest of which is 0.75 meters, making it highly suitable for easy of shipping/carrying/transportation and handling. All elements are supplied in two segments for easy of shipping and handling. The elements are attached via stainless steel studs systems at points along the boom. The tactical 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 tactical log periodic dipole antenna are made of type 316 marine grade stainless steel. The mounting arrangement of log periodic antenna permits to change the polarization from horizontal to vertical and vice-versa.

### ELECTRICAL SPECIFICATIONS:

Frequency Range	100-3000 MHz.
Gain	6 dBi.
Bandwidth	Entire Band
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beam-width –Half power Points.	110 Degrees typical
Vertical Beam-width –Half power Points.	60 Degrees typical
Front to Back Ratio	14 +/- 2 dB.
VSWR – Max	3:1
RF Power Handling Capacity	250 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
Net Weight Approx.	5 Kgs.
Wind Rating	190 km/Hr.
Overall Length	1.7 Meters.
Overall Width	1.5 Meters
Support Boom - Material – Cross Section	Aluminum – Square Tube
Elements - Materials - Cross Section	Aluminum - Round Tube
Mounting Clamps Position	At Center of the Support Boom
Maximum Mount Pipe Diameter	32-52mm (1.25-2 Inches)

### 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, frequency Vs VSWR graph and Frequency Vs Gain curve.

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