ANTENNA EXPERTS

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Model # LP-30-1300 30 – 1300 MHz. 9 dBi. Gain

LOG PERIODIC DIPOLE ANTENNA

DESIGN FEATURES: **The LP-30-1300 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 30-1300 MHz bands without having the requirement of multiple antennas. The complete log periodic antenna is supplied with powder coating finish to protect it further from severe environmental conditions. The extra spacers are used between the support booms to improve mechanical durability of log periodic antenna. The specially designed mounting arrangement results in fast installation. The LP antenna can be assembled in less than 10 minutes. This 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. This log periodic antenna provides strong performance over the entire 30-1300 MHz band. Log periodic antenna does not use loading technique to reduce the overall size of array.**

CONSTRUCTIONS: **The LP-30-1300 assembled log periodic antennas outer-most dimensions are 5.2 meters (17 feet) long and 5 meters (16.5 feet) wide. The antenna has removable elements, the longest of which is 2.5 meters. All elements are supplied in two segments for easy of shipping and handling. The elements are attached via stainless steel nuts & bolts 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	30-1300 MHz.
Gain	9 dBi. Typical
Bandwidth	30-1300MHz
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beam-width –Half power Points.	90 +/- 10 Degrees
Front to Back Ratio	16 +/- 2 dB.
VSWR – Better Than	3:1
RF Power Handling Capacity	1000 Watts
Input Termination	N-Female
Lightning Protection	DC Ground

MECHANICAL SPECIFICATIONS:	
Support Booms & Radiating Elements Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Gross Weight	24 Kgs.
Wind Rating	180 km/Hr.
Overall Length	5.2 Meters
Overall Width	5.0 Meters
Shipping Length	2.75 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	50-77mm (2-3 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 photograph, VSWR curve and gain vs frequency curve.