

DUAL POLARIZED LOG PERIODIC DIPOLE ANTENNA

Model LPDP-30-1000
30 – 1000 MHz.
5 to 8 dBi. Gain

DESIGN FEATURES: The LPDP-30-1000 dual polarized log periodic antenna is designed to provide wideband directional transmission/reception of horizontal and vertical radio signals from 30-1000 MHz bands. The extra spacers are used between the support booms to improve mechanical durability of antenna. The specially designed mounting arrangement results in fast installation. This dual polarized log periodic dipole antenna system is particularly suitable for transmission, reception, monitoring, scanning and jamming applications due to its capability of receiving/transmitting both the E & H polarized signals simultaneously. This high gain LP provides strong performance over the entire frequency of 30-1000 MHz as the LPDA does not use loading technique to reduce the overall size of array.

CONSTRUCTIONS: The LPDP-30-1000 assembled log periodic antennas outer-most dimensions are 5.1 meters (16.7 feet) long and 5 meters (16.5 feet) width & height. The antenna has foldable 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 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	30-1000 MHz.
Gain - Typical	5 to 8 dBi.
Bandwidth	Entire Band
Polarization	Dual - Vertical and Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beam-width –Half power Points.	90 +/- 10 Degrees Typical
Front to Back Ratio	14 +/- 2 dB. Typical
VSWR – Better Than	2.5:1
RF Power Handling Capacity	500 Watts
Input Termination	2 x N-Female
Lightning Protection	DC Ground

MECHANICAL SPECIFICATIONS:

Support Booms & Radiating Elements Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Net Weight Approx.	45 Kgs.
Wind Rating	180 km/Hr.
Overall Length	5.1 Meters.
Overall Width	5.0 Meters
Shipping Length	2.7 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	50-77 mm (2-3 Inches)

ENVIRONMENTAL SPECIFICATIONS:

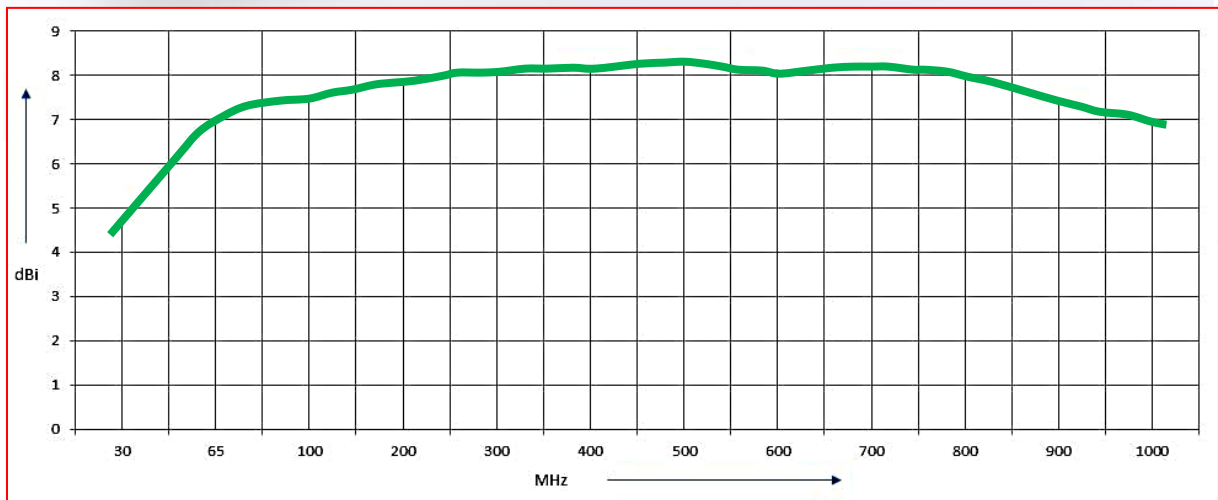
Operating Temperature	(-)30 to + 70 Degrees Celsius
Storage Temperature	(-) 40 to +80 Degrees Celsius
Humidity	0 to 95 % RH



RECOMMANDATIONS :
 Selon la puissance injectée ne pas stationner dans l'axe de l'antenne à moins de 10 mètres pour une puissance de 100 watts émetteur (850 watts de PAR). [{Calculateur des distances de sécurité}](#) Rester en deçà du seuil maximal des niveaux réglementaires.
 Consulter le [Portail Radiofréquences de l'Etat Français](#)



LPDP 30-1000 MHz. Avec mâtereau en fibre de verre.



Courbe de gain Typique