

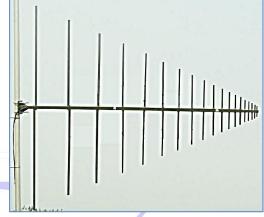
LOG PERIODIC DIPOLE ANTENNA Model HYC-LPDA 100-1000 cover 0.1-1 GHz, Gain 9 dBi

Design features

The HYC-LPDA-100-1000 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 100-1000 MHz bands. The specially designed mounting arrangement results in fast installation. The extra spacers are used between the support booms to improve mechanical durability of antenna. This log periodic dipole antenna system is particular suitable for transmission, reception, monitoring, surveillance, scanning and jamming applications due to its broad band design feature. This high gain LPA provides strong performance over the entire frequency of 100-1000 MHz as the LPDA does not use loading technique to reduce the overall size of array. The high gain log periodic antenna can be assembled in less than 5 minutes by 2 technicians. Antenna is supplied with rear end mounting. The antenna can also be supplied with mounting at center of gravity on request.

Constructions

The HYC-LPDA-100-1000 assembled log periodic antennas outer-most dimensions are 1.8 meters (71 Inches) long and 1.5 meters (60 Inches) wide. The antenna has foldable elements, the longest of which is 0.75 meter. All the elements are supplied in two segments for easy of shipping and handling. The elements are attached via a stainless steel stud system which is fixed at each element end for attaching the same on the corresponding marked position on support boom. The log periodic antenna operates at D.C. ground with low resistance discharge path for protection against lightning and immunity to noise. The complete antenna is supplied with epoxy based powder coating finish to protect it further from severe environmental conditions All the screws, nuts and bolts of high gain log periodic dipole antenna are made of type 316 marine grade stainless steel. The LP Antenna is supplied with olive green military colour finish. The mounting arrangement of log periodic antenna permits to change the polarization from horizontal to vertical and vice-versa.



ELECTRICAL SPECIFICATIONS:

Frequency Range 100-1000 MHz. Gain - Typical 9 dBi. Bandwidth **Entire Band** Polarization Vertical or Horizontal Input Impedance 50 Ohms Directional **Radiation Pattern** Horizontal Beam-width -Half 90 +/-10 Degrees Typical power Points. 65 +/-10 Degrees Typical Vertical Beam-width –Half power Points. 18 +/-2 dB. Typical Front to Back Ratio 23 +/-2 dB. Typical **Cross Polarization Discrimination RF Power Handling Capacity** 250 Watts CW Input Termination N-Female Lightning Protection DC Ground -ength 1800mn Width 1500mm

MECHANICAL SPECIFICATIONS:

Support Booms & Radiating	6
Elements Materials	8
Mounting Hardware -Materials	Ν
Gross Weight	5
Wind Rating	2
Overall Length	1
Overall Width	1
Shipping Length	1
Support Boom - Material – Cross	A
Elements - Materials - Cross	A
Mounting Clamps Position	R
Maximum Mount Pipe Diameter	5
Final Finish/Color	C

6063T6 Aluminum Alloy Marine Grade Stainless Steel 5 Kgs. 200 km/Hr. L.8 Meters (71 Inches) 1.5 Meters (60 Inches) L.9 Meters (75 Inches) Aluminum – Square Tube Section Aluminum - Round Tube Section Rear end of Support Boom 51 mm (2 Inches) Olive Green Powder Coating

ENVIRONMENTAL SPECIFICATIONS:

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



RECOMMANDATIONS:

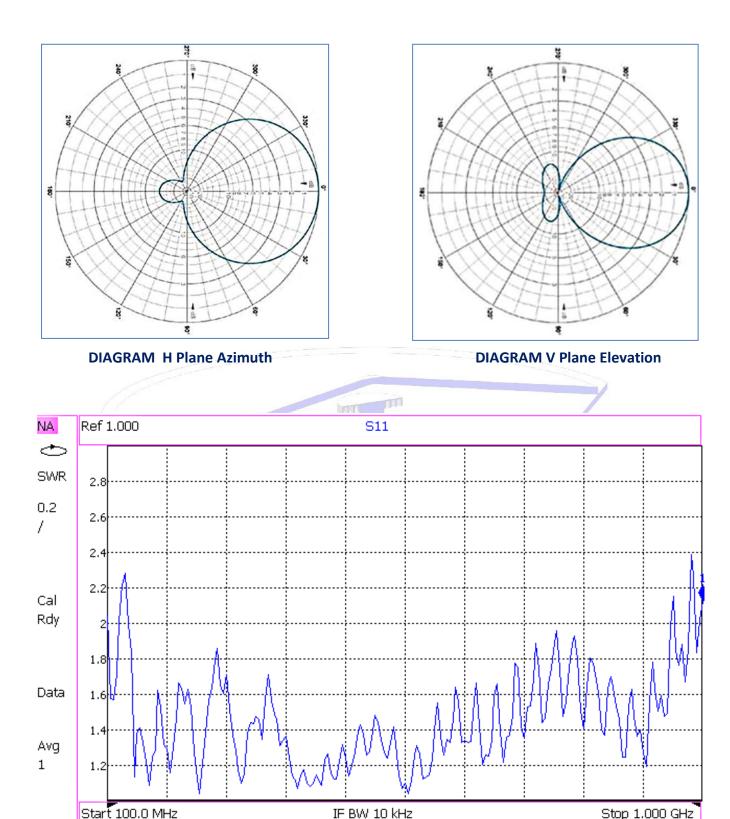
Selon la puissance injectée ne pas stationner dans l'axe de l'antenne à moins de 10 mètres pour une puissance de 100 watts émetteur (850 watts de PAR). {Calculateur des distances de sécurité } Rester en deçà du seuil maximal des niveaux règlementaires.

Consulter le Portail Radiofréquences de l'Etat Français

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Points 201



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IF BW 10 kHz

RETURN LOSS

Output Power -15.0 dBm

Stop 1.000 GHz

Swp 180 ms