

Delhi, INDIA

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LOG PERIODIC DIPOLE ANTENNA

DESIGN FEATURES: The log periodic antenna is designed to provide wideband directional transmission/reception of horizontal or vertical radio signals in full frequency band. Extra spacers are used between the support booms to improve mechanical strength of antenna. We use two different mounting plates for dedicated horizontal or vertical polarization and it results in fast installation. This log periodic dipole antenna system is particular suitable for transmission, reception, monitoring, scanning and jamming applications due to its capability of receiving/transmitting both the E & H signals. This LPDA provide strong performance over the entire frequency as it does not use loading technique to reduce the overall size of array.

CONSTRUCTIONS: All elements are supplied in pairs for compact shipping and easy handling while antenna installation. The installer can attach all the elements very easily at given 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:							
Model No.	SLP100-512	SLP100-1000	SLP100-1500	SLP100-2000	SLP100-2500	SLP100-3000	
Frequency Range (MHz)	100-512 MHz	100-1000 MHz	100-1500 MHz	100-2000 MHz	100-2500 MHz	100-3000 MHz	
Gain (dBi)	7 dBi (typ.)	7 dBi (typ.)					
Bandwidth	Full band						
Polarization	Vertical or Horizonta	Vertical or Horizontal					
Input Impedance	50 Ohms	50 Ohms					
Radiation Pattern	Directional	Directional					
Horizontal Beam-width (H-plane)	60°	60°					
Vertical Beam-width (E-plane)	40°	40°					
VSWR	≤ 2.5 : 1 (typ.)	≤ 2.5 : 1 (typ.)					
RF Power Handling Capacity	1KW @ VHF band &	1KW @ VHF band & 500W @UHF					
Input Termination	N-Female / DIN-Fem	N-Female / DIN-Female (optional)					
Lightning Protection	Direct Ground	Direct Ground					
MECHANICAL SPECIFICATIONS:							
Support Booms and Radiating Elements Materials	Aluminium Alloy 60	Aluminium Alloy 6063T6					
Mounting Hardware	Stainless Steel / Nylo	Stainless Steel / Nylon / Delrin					
Weight (approx)	4 Kg	6	6.5	7	7	7.5	
Length (approx)	1.45 Meters	1.55	1.6	1.65	1.7	1.75	
Width (approx)	1.5 Meters	1.5 Meters					
Shipping Length (approx)	1.5 meters	1.6	1.7	1.7	1.8	1.8	
Wind Rating	200 Km/Hr.						
Elements Materials-Cross Section	Aluminium-Round T	Aluminium-Round Tube					
Support Boom Materials-Cross Section	Aluminium-Square 1	Aluminium-Square Tube					
Mounting Clamps Position	At Back Side of the	At Back Side of the Support Boom					
Maximum Mounting Pipe Diameter	50 mm (2 inches)						
ENVIRONMENTAL SPECIFICATIONS:							
Operating Temperature	(-)30° to +70° Celsiu	(-)30° to +70° Celsius					
Storage Temperature	(-)40° to +80° Celsius						
Humidity	0 to 90% RH	0 to 90% RH					