

SMART ELECTRONICS COMMUNICATION

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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.	SLP88-512	SLP88-1100	SLP88-2000	SLP88-3000
Frequency Range (MHz)	88-512 MHz	88-1100 MHz	88-2000 MHz	88-3000 MHz
Gain (dBi)	7 dBi (typ.)			
Bandwidth	Full band			
Polarization	Vertical or Horizontal			
Input Impedance	50 Ohms			
Radiation Pattern	Directional			
Horizontal Beam-width (H-plane)	65°			
Vertical Beam-width (E-plane)	45°			
VSWR	≤ 2.5 : 1 (typ.)			
RF Power Handling Capacity	1KW @ VHF band & 500W @UHF			
Input Termination	N-Female / DIN-Female (optional)			
Lightning Protection	Direct Ground			

MECHANICAL SPECIFICATIONS:

Support Booms and Radiating Elements Materials	Aluminium Alloy 6063T6			
Mounting Hardware	Stainless Steel / Nylon / Delrin			
Weight (approx)	5 Kg	6	6.5	7
Length (approx)	1.5 Meters	1.6	1.7	1.8
Width (approx)	1.7 Meters			
Shipping Length (approx)	1.8 meters			1.9
Wind Rating	180 Km/Hr.			
Elements Materials-Cross Section	Aluminium-Round Tube			
Support Boom Materials-Cross Section	Aluminium-Square Tube			
Mounting Clamps Position	At Back Side of the Support Boom			
Maximum Mounting Pipe Diameter	50 mm (2 inches)			

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)30° to +70° Celsius			
Storage Temperature	(-)40° to +80° Celsius			
Humidity	0 to 90% RH			

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