

# 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:

<b>Model No.</b>	<b>SLP80-2000</b>
Frequency Range (MHz)	80-2000 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	≤ 2.0 : 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
Length (approx)	1.7 Meters
Width (approx)	1.7 Meters
Shipping Length (approx)	1.8 meters
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.