

SMART ELECTRONICS COMMUNICATION

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DUAL POLARIZED LOG PERIODIC DIPOLE ANTENNA

DESIGN FEATURES: The dual polarized log periodic antenna is designed to provide wideband directional transmission/reception of horizontal and vertical radio signals in full frequency band. Extra spacers are used between the support booms to improve mechanical strength of antenna. This dual polarized 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 fixed along the boom. The dual polarized 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. Radome is also available after request at the time of ordering.



ELECTRICAL SPECIFICATIONS:	
Model No.	SLPDP1250G9
Frequency Range (MHz)	500-3000 MHz
Gain (dBi)	9 dBi
Bandwidth	Full band
Polarization	Dual Polarized for both - Vertical and Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Beam-width	60°±10°
VSWR	≤ 2 : 1 (typ.)
RF Power Handling Capacity	500W
Input Termination	2 X [N-Female]
Lightning Protection	Direct Ground
MECHANICAL SPECIFICATIONS:	
Support Booms and Radiating Elements Materials	Aluminium Alloy 6063T6
Mounting Hardware	Stainless Steel / Fiberglass / Delrin
Weight (approx)	3 Kg
Length (approx)	65 cm
Width (approx)	35 cm
Height (approx)	20 cm
Shipping Length (approx)	70 cm
Wind Rating	180 Km/Hr.
Elements Materials-Cross Section	Aluminium-Round Tube/rod
Support Boom Materials-Cross Section	Aluminium-Square Tube
Mounting Clamps Position	Near 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.