

SMART ELECTRONICS COMMUNICATION

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DUAL POLARIZED LOG PERIODIC DIPOLE ANTENNA

DESIGN FEATURES: The SLPDP series dual polarized log periodic dipole antennas are particular suitable for Signal Intelligence SIGINT application, Electronic Warfare EW application, surveillance application, RCIED jamming, transmission, reception, spectrum monitoring and scanning applications due to its capability of receiving/transmitting both the vertical & horizontal (E & H) polarized signals simultaneously with 2 independently terminations.

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.

Antennas operating in HF or lower VHF band are supplied with mounting arrangement near centre of the antenna length.



ELECTRICAL SPECIFICATIONS:

Model No.	SLPDP1500G6	SLPDP1500G6L
Useful For :	Fixed station	Tactical purpose (compact & light weight)
Frequency Range (MHz)	20-3000 MHz	
Gain (dBi)	5~6 dBi	
Bandwidth	Full band	
Polarization	Dual Polarized for both - Vertical and Horizontal	
Input Impedance	50 Ohms	
Radiation Pattern	Directional	
Beam-width	120°±10°	110°±10°
VSWR	≤ 3 : 1 (typ.)	≤ 3.5 : 1 (typ.)
RF Power Handling Capacity	1KW @ VHF band & 500W @UHF	
Input Termination	2 X [N-Female / DIN-Female (optional)]	
Lightning Protection	Direct Ground	

MECHANICAL SPECIFICATIONS:

Support Booms and Radiating Elements Materials	Aluminium Alloy 6063T6	
Mounting Hardware	Stainless Steel / Fiberglass / Delrin	
Weight (approx)	60 Kg	33 Kg
Length (approx)	7 Meters	3.5 Meters
Width (approx)	7.5 Meters	3 Meters
Height (approx)	7.5 Meters	3 Meters
Shipping Length (approx)	3.5 meters	
Wind Rating	100 Km/hr	150 Km/hr
Elements Materials-Cross Section	Aluminium-Round Tube	
Support Boom Materials-Cross Section	Aluminium-Square Tube	
Maximum Mounting Pipe Diameter	50-75 mm (2-3 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.