

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.	SLPDP30-100
Frequency Range (MHz)	30-100 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	80°±10°
VSWR	≤ 3 : 1 over 95% frequency band
RF Power Handling Capacity	1KW @ VHF band & 500W @UHF
Input Connector	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)	42 Kg
Length (approx)	4.7 Meters
Width (approx)	5 Meters
Height (approx)	5 Meters
Shipping Length (approx)	2.7 meters
Wind Rating	150 Km/Hr.
Elements Materials-Cross Section	Aluminium-Round Tube
Support Boom Materials-Cross Section	Aluminium-Square Tube
Maximum Mounting Pipe Diameter	50-100 mm (2-4 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.