



ANTENNA EXPERTS

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Model LP-210-500 210 – 500 MHz. 8 dBi. Gain

SATCOM LOG PERIODIC DIPOLE ANTENNA

DESIGN FEATURES: The LP-210-500 log periodic dipole antenna is a broadband, compact directional antenna, providing continuous communications coverage across the spectrum of 210-500 MHz. The LP-210-500 LP antenna applications include rapid deployment of emergency low-UHF communications, military LOS and SATCOM operations, frequency hopping and jamming sources, spectrum monitoring and management, surveillance, radio scanners, global and wide area SCADA systems and metrology. The LP-210-500 antenna can be used to establish an immediate field command and control center after any natural disaster, where the communications infrastructure has been disrupted, or use it for frequency agile, or wideband Spread Spectrum tactical military traffic, or use it with your Ham Radio or commercial gear to operate on 220 and 406-512 MHz, or more than one channel simultaneously. This high gain LPA provides strong performance over the entire frequency of 210-500 MHz as the LPDA does not use loading technique to reduce the overall size of array.

CONSTRUCTIONS: The LP-210-500 assembled log periodic antennas outer-most dimensions are 0.6 meter (2 feet) long and 0.72 meter (28 Inches) wide. The antenna has foldable elements, the longest of which is 0.75 meter. All elements are supplied in two segments for easy of shipping and handling. The elements are attached via a fast deployment self-locking device at points along the boom. The specially designed mounting arrangement results in fast installation. The extra spacers are used between the support booms to improve mechanical durability of antenna. 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 marine grade stainless steel.

ELECTRICAL SPECIFICATIONS:

Frequency Range	210-500 MHz.
Gain	8 dBi.
Bandwidth	Entire Band
Polarization	Linear - Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beam-width –Half power Points.	125 +/- 5 Degrees
Front to Back Ratio	16 dB.
VSWR	1:2.5
RF Power Handling Capacity	500 Watts
Input Termination	N-Female
Lightning Protection	DC Ground

MECHANICAL SPECIFICATIONS:

Support Booms & Radiating Elements Materials	All Aluminum
Mounting Hardware -Materials	Stainless Steel
Gross Weight	2.5 Kgs.
Wind Rating	200 km/Hr.
Overall Length	0.60 Meter
Overall Width	0.72 Meter
Shipping Length	0.65 Meter
Support Boom - Material – Cross Section	Aluminum – Square Tube
Elements - Materials - Cross Section	Aluminum - Round Tube
Mounting Clamps Position	At Back End of the Support Boom
Maximum Mount Pipe Diameter	52 mm (2 Inches)

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)30 to + 70 Degrees Celsius
Storage Temperature	(-) 40 to +80 Degrees Celsius
Humidity	0 to 95 % RH

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