



ANTENNA EXPERTS

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Model # LP-380-512 380 – 512 MHz. 10 dBi. Gain

TETRA BAND LOG PERIODIC DIPOLE ANTENNA

DESIGN FEATURES: The LP-380-512 TETRA band log periodic antenna is designed to provide wideband directional transmission/reception of radio signals from 380 to 512 MHz bands. The compact size of the log periodic antenna allows easy handling and specially designed mounting arrangement results in fast installation. The extra spacers are used between the support booms to improve mechanical durability of antenna. This high gain LPA provides strong performance over the entire frequency of 380-512 MHz as the LPDA does not use loading technique to reduce the overall size of array. Output of log periodic antenna is provided via low loss coaxial cable at the back end of the antenna boom. The log periodic dipole antenna is supplied complete in assembled condition.

CONSTRUCTIONS: This TETRA band log periodic antenna have been constructed in high quality 6063T6 ultra corrosion resistant architectural anodized aluminum alloys to prevent corrosion. Powder coating of the complete TETRA band log periodic antenna provides extra protection against corrosion in saline weather present in coastal areas. The LP-380-512 assembled log periodic antennas outer-most dimensions are 0.85 meter (33.5 Inches) long and 0.395 meter (15.5 Inches) wide. The log periodic antenna operates at D.C. ground with low resistance discharge path for protection against lightning and for immunity to noise. All the screws, nuts and bolts of log periodic dipole antenna are made of type 316 marine grade stainless steel.

ELECTRICAL SPECIFICATIONS:

Frequency Range	380 - 512 MHz.
Gain	10 dBi.
Bandwidth	Entire Band
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beam width – Half Power Points	65 Degrees
Vertical Beam width – Half Power Points	55 Degrees
Front to Back Ratio	18 dB.
VSWR – Better than	1:2.0
RF Power Handling Capacity	300 Watts
Input Termination	N-Female
Lightning Protection	Direct Ground

MECHANICAL SPECIFICATIONS:

Support Booms & Radiating Elements Materials	6063T6 Aluminum
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	850 mm
Overall Width	395 mm
Shipping Length	900 mm
Support Boom - Materials	Aluminum - Square Tube
Elements - Materials	Aluminum - Round Rod
Insulator Material	Nylon & Teflon
Mounting Clamps Position	At the back end of antenna
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Gross Weight	3.5 Kgs.

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.