



ANTENNA EXPERTS

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Model # LP-88-108

88 – 108 MHz.

9 dBi. Gain

FM BAND LOG PERIODIC DIPOLE ANTENNA

DESIGN FEATURES: The LP-88-108 log periodic dipole antenna use 6063T6 ultra corrosion resistant architectural anodized aluminum alloy and designed to provide wideband directional transmission/reception of radio signals from 88-108 MHz bands. The specially designed mounting arrangement results in fast installation. The extra spacers are used between the support booms to improve mechanical durability of antenna. This log periodic dipole antenna system is particular suitable for transmission, reception, monitoring, surveillance, scanning and jamming applications due to its broad band design feature. This high gain LPA provides strong performance over the entire frequency of 88-108 MHz as the LPDA does not use loading technique to reduce the overall size of array.

CONSTRUCTIONS: The LP-88-108 assembled log periodic antennas outer-most dimensions are 2.2 meters (7.2 feet) long and 1.7 meters (5.6 feet) wide. The antenna has foldable elements, the longest of which is 0.85 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 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 type 316 grade marine grade stainless steel.



ELECTRICAL SPECIFICATIONS:

Frequency Range	88-108 MHz.
Gain	9 dBi.
Bandwidth	Entire Band
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beam-width –Half power Points.	60 Degrees
Front to Back Ratio	16 dB.
VSWR – Better Than	1:2.0
RF Power Handling Capacity	250 Watts
Input Termination	N-Female
Lightning Protection	DC Ground

MECHANICAL SPECIFICATIONS:

Support Booms & Radiating Elements Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Gross Weight	6 Kgs.
Wind Rating	190 km/Hr.
Overall Length	2.2 Meters
Overall Width	1.7 Meters
Shipping Length	2.25 Meters
Support Boom - Material – Cross Section	Aluminum – Square Tube – 25.4mm
Elements - Materials - Cross Section	Aluminum - Round Tube – 19mm
Mounting Clamps Position	At Rear End of the Support Boom
Maximum Mount Pipe Diameter	51 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.