



# ANTENNA EXPERTS

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**Model # LP-800-2700                      800 – 2700 MHz.                      9 dBi. Gain**

## LOG PERIODIC DIPOLE ANTENNA

**DESIGN FEATURES:** The LP-800-2700 log periodic dipole antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminium alloy with welded elements. The complete antenna is supplied with powder coating finish to protect it further from severe environment conditions. The LP-800-2700 log periodic dipole antenna is designed to provide wideband directional transmission/reception of radio signals from 800 to 2700MHz bands. 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 800-2700MHz as the LPDA does not use loading technique to reduce the overall size of array. Powder coating of the complete log periodic antenna provides extra protection against corrosion in saline weather present in coastal areas.



**CONSTRUCTIONS:** The log periodic dipole antenna is supplied complete in assembled condition. The LP-800-2700 assembled log periodic antennas outer-most dimensions are 0.4 meter (16 Inches) long and 0.19 meter (7.5 Inches) wide. The compact size of the log periodic antenna allows easy handling and specially designed mounting arrangement results in fast installation. The log periodic antenna operates at D.C. ground with low resistance discharge path for protection against lightning and for immunity to noise. Output of log periodic antenna is provided via low loss coaxial cable at the back end of the antenna boom. All the screws, nuts and bolts of log periodic dipole antenna are made of stainless steel. The antenna can be supplied with radome/housing (optionally).

### ELECTRICAL SPECIFICATIONS:

Frequency Range	800 - 2700 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	18 dB.
VSWR – Better than	1:2.5
RF Power Handling Capacity	150 Watts
Input Termination	N-Female
Lightning Protection	Direct Ground

### MECHANICAL SPECIFICATIONS:

Support Booms & Radiating Elements Materials	6063 T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	440 mm
Overall Width	190 mm
Shipping Length	460 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	2.0 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.