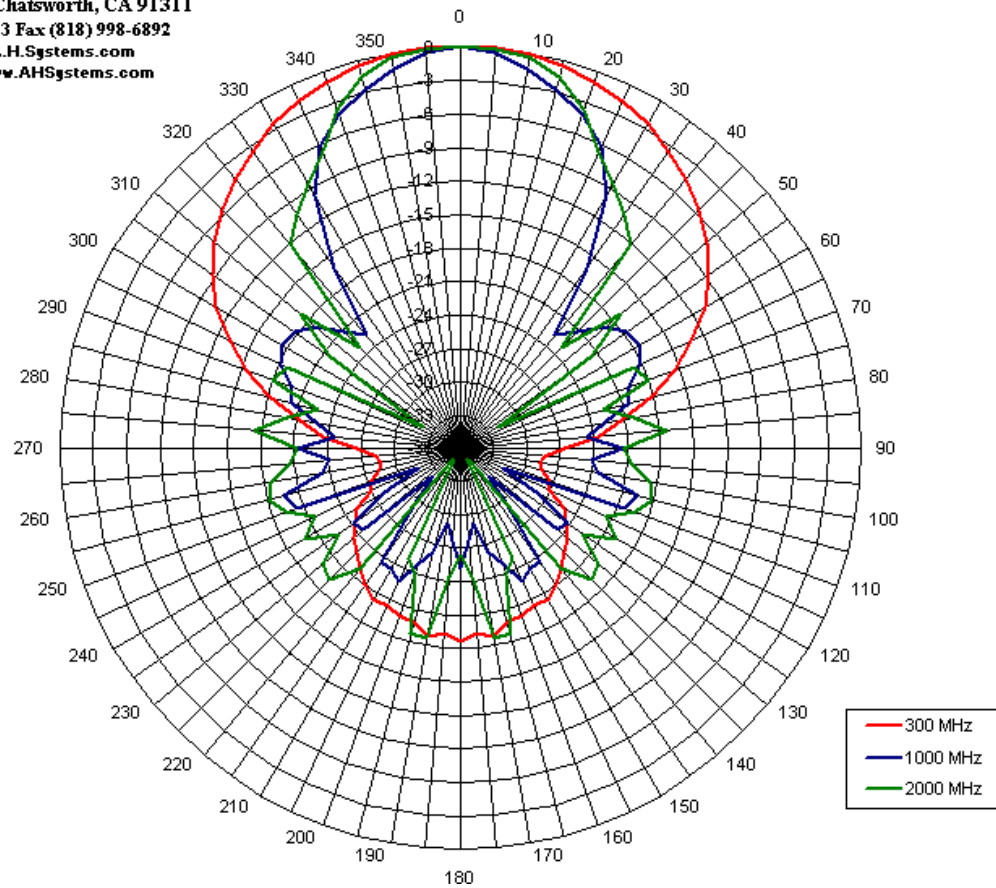




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Beamwidth Pattern
Horizontal Polarization
Model: SAS-510.2



Below is the datasheet of the antenna we use.



ANTENNA EXPERTS

E-mail: info@antennaexperts.in Website: www.antennaexperts.in

Model LP-100-1000 100-1000MHz 9 dBi Gain

HIGH GAIN LOG PERIODIC ANTENNA

Design Features: The LP-100-1000 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 100-1000 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 100-1000 MHz as the LPDA does not use loading technique to reduce the overall size of array. The high gain log periodic antenna can be assembled in less than 5 minutes by 2 technicians. Antenna is supplied with rear end mounting. The antenna can also be supplied with mounting at center of gravity on request.

Constructions: The LP-100-1000 assembled log periodic antennas outer-most dimensions are 1.8 meters (71 Inches) long and 1.5 meters (60 Inches) wide. The antenna has foldable elements, the longest of which is 0.75 meter. All the elements are supplied in two segments for easy of shipping and handling. The elements are attached via a stainless steel stud system which is fixed at each element end for attaching the same on the corresponding marked position on support boom. The log periodic antenna operates at D.C. ground with low resistance discharge path for protection against lightning and immunity to noise. The complete antenna is supplied with epoxy based powder coating finish to protect it further from severe environmental conditions. All the screws, nuts and bolts of high gain log periodic dipole antenna are made of type 316 marine grade stainless steel. The LP Antenna is supplied with olive green military colour finish. The mounting arrangement of log periodic antenna permits to change the polarization from horizontal to vertical and vice-versa.

Electrical Specifications:

Frequency Range	100-1000MHz
Gain	9 dBi
Bandwidth	100-1000MHz
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beamwidth -Half Power Points	90 +/-10 Degrees Typical
Vertical Beamwidth -Half Power Points	65 +/-10 Degrees Typical
Front to Back Ratio	18 +/-2 dB. Typical
VSWR - Equal To or Better Than	2.5:1
RF Power Handling Capacity	250 Watts CW
Input Termination	N-Female
Lightning Protection	Direct Ground

Mechanical Specifications:

Antenna Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	1.8 Meters (71 Inches)
Shipping Length	1.9 Meters (75 Inches)
Support Boom - Material - O.D.	6063T6 Aluminum Alloy Square Tube
Elements - Materials - Cross Section - Outer Diameter	6063T6 Aluminum Alloy Round Tube
Mounting Clamps Position	At Rear End of Boom
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Gross Weight	5 Kgs.

Environmental Specifications:

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