LP800-2500-9-NF

Log Periodic Dual-Band Antenna
806-960 MHz/1710-2500 MHz

The LP series antennas from Laird Connectivity are ultra-wideband log periodic antennas which cover a very wide frequency range. Because it covers both cellular and WLAN worldwide frequencies, this antenna is extremely useful for CPE equipment and base station equipment needed for these frequency bands, minimizing the amount of equipment needed for each service location. The LP series can be used indoors or outdoors. It comes complete with all components needed for pole mounting or wall mounting. The sealed housing is UV stabilized ABS plastic. The backplate is stainless steel with stainless steel fasteners. All bracket components are stainless steel for corrosion protection. The pigtail is 18-inch outdoor rated cable terminated with an N-female connector standard. Other connector/cable configurations available upon request.

FEATURES AND BENEFITS

- Covers both cellular and WLAN frequencies
- Consistent 9 dBi gain across all frequencies
- Pole mount or wall mount
- Light gray attractive UV protected housing
- Vertical or horizontal polarization
- DC grounded for lightning protection

APPLICATIONS

- Cellular/WLAN repeaters
- WISP equipment
- Indoor cellular/WLAN extenders
- Non-line of sight

ELECTRICAL SPECIFICATIONS		
Model Name	LP800-2500-9-NF	
Operating Frequency (MHz)	806-960	1710-2500
VSWR – Avg	1.5:1	
Gain (dBi)	9	
Nominal Impedance (Ohms)	50	
Max Power - Ambient 25°C (W)	50	
Polarization	Vertical or Horizontal	
Vertical Plane 3 dB Beamwidth	55°	
Horizontal Plane 3 dB Beamwidth	90°	75°
Front-to-Back Ratio (dB)	23	
Gamma Match Type	Internally matched	

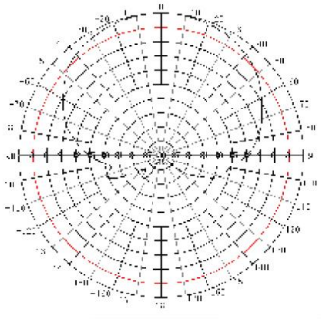
MECHANICAL SPECIFICATIONS			
Dimensions – L x W x H – cm (inches)	39.37 x 26.67 x 6.99 (15.5 x 10.5 x 2.75)		
Mounting option	Wall or Mast mounting		
Pole Size – cm (inches)	4.318 (1.7)		
Weight – kg (lbs.)	0.7 (1.5)		
Element Construction	Bolted		
Bracket Included	Included		

ENVIRONMENTAL SPECIFICATIONS			
Operating Temperature – °C (°F)	-45 to +70°C (-49 to +158°F)		
Wind Loading – lbs.	18.8 (100 mph)	29.3 (125 mph)	29.5 (100 mph w/ ½-in. radial ice)
Material Substance Compliance	RoHS		

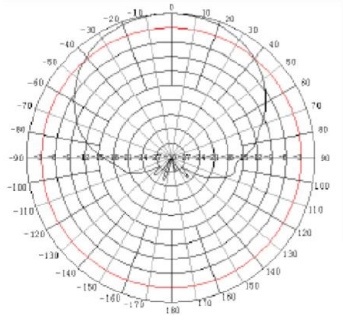
CONFIGURATION

PART NUMBER	DESCRIPTION
LP800-2500-9-NF	806-960 MHz/1710-2500 MHz antenna, UV-protected ABS plastic housing

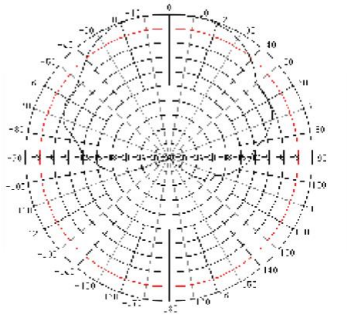
RADIATION PATTERNS



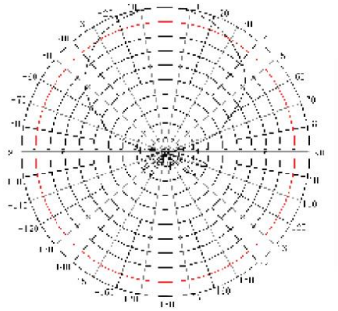
890 MHz
H-Plane



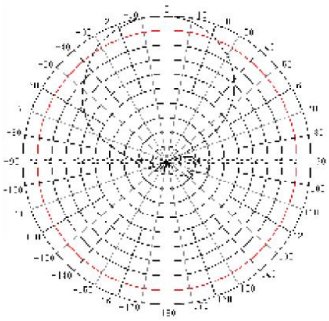
1800 MHz
H-Plane



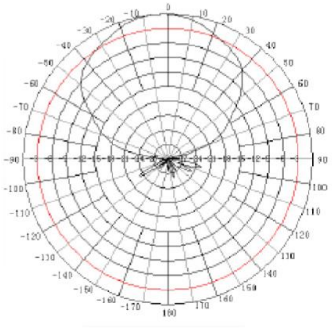
2400 MHz
H-Plane



890 MHz
E-Plane



1800 MHz
E-Plane



2400 MHz
E-Plane

RoHS

Laird Connectivity warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations Laird Connectivity will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird Connectivity product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

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