



The LP series antennas from wpsantennas.com 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 | | |

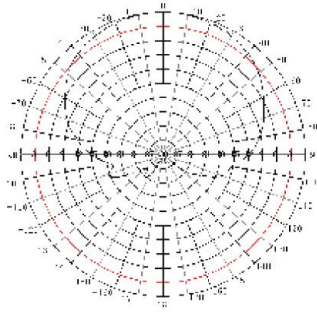
ENVIRONMENTAL SPECIFICATIONS

| | | | |
|---------------------------------|------------------------------|----------------|------------------------------------|
| 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 | | |

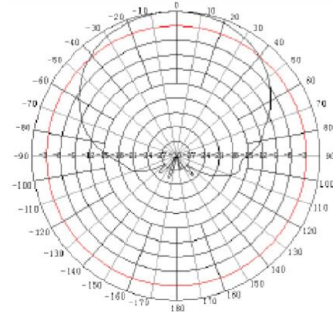
CONFIGURATION

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

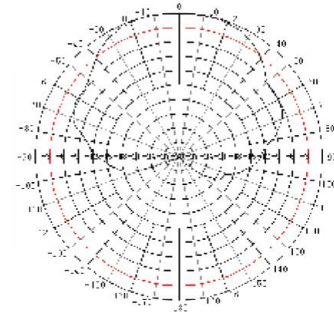
RADIATION PATTERNS



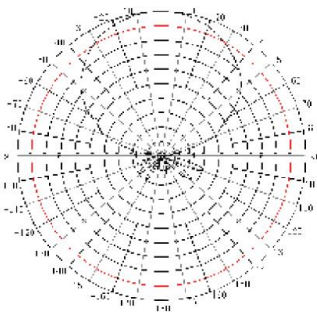
890 MHz
H-Plane



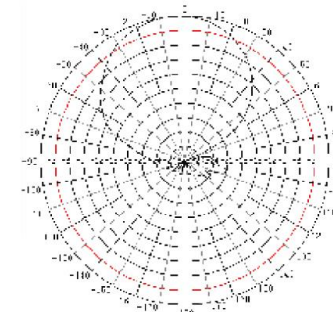
1800 MHz
H-Plane



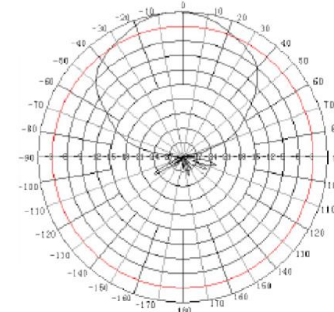
2400 MHz
H-Plane



890 MHz
E-Plane



1800 MHz
E-Plane



2400 MHz
E-Plane



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