

Poynting LPDA-92-04, Wideband antenna, 698 to 3800 MHz, 0.3 m N Female

SKU: ANT-PY-00002

MPN: A-LPDA-0092-04

Barcode: 6009710924655

Description

The Poynting LPDA-92 Antenna is a durable and high performance directional 4G antenna capable of operating on most global 4G frequencies from 700 to 3800 MHz. The antenna provides a modest 11 dBi gain across standard 4G frequencies between the range of 700 and 2700 MHz, making it suitable for use in hilly terrain or in locations obstructed by vegetation.

The LPDA-92 antenna is also capable of operation on 5G frequencies, although at a lower gain (2.3 dBi).

When used for 4G or 5G internet, two or more LPDA antennas should be mounted at opposing polarities - either V&H or Slant-45 orientations.

The antenna is available with a short 300 mm cable terminating with N Female, or with a longer 7 metre cable with an SMA Male connector.

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The key feature of this antenna is its mechanical durability. The antenna is manufactured in South Africa from cast-aluminium making it exceptionally strong. LPDA-92 performs very well on the lower and mid 4G-5G bands.



RF Specification



Poynting is a top global provider of integrated antenna solutions, responsible for the innovation, design and manufacture of its market-leading products. Established as a consultancy in 1990, Poynting evolved into an official PTY in 1997 and in 2001 established Poynting Antennas. It caters antenna solutions for primarily wireless high speed data applications, including residential 4G LTE as well ...

| | | | |
|-------------------|----------|------------------|--------------|
| Start Frequency: | 698 MHz | Polarisation: | Vertical (V) |
| Stop Frequency: | 3800 MHz | Input Impedance: | 50 |
| Max. Input Power: | 10 W | | |

RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length |
|-------|--------------|------------|--------------|--------|
| 1 | N Female | Straight | L-195 | 300 mm |

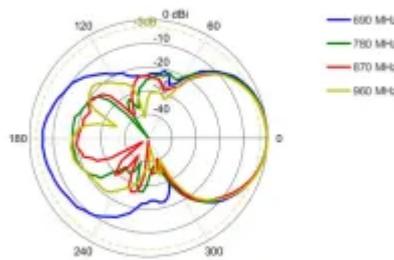
Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR | Azimuth | Elevation | F/B Ratio |
|-------------|------------|-----------|---------|---------|-----------|-----------|
| 698 MHz | 960 MHz | 10.8 dBi | < 1.5:1 | 60° | 65° | > 5 dB |
| 1427 MHz | 1517 MHz | 10 dBi | < 1.5:1 | 50° | 55° | > 15 dB |
| 1710 MHz | 2170 MHz | 11 dBi | < 1.5:1 | 50° | 55° | > 15 dB |
| 2170 MHz | 2700 MHz | 11 dBi | < 1.5:1 | 40° | 45° | > 18 dB |
| 3400 MHz | 3800 MHz | 2.3 dBi | < 1.5:1 | 60° | 90° | > 12 dB |

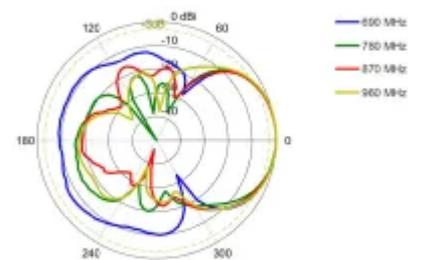
Polar Patterns

Start Frequency: 698 MHz
Stop Frequency: 960 MHz

Azimuth Polar Plot

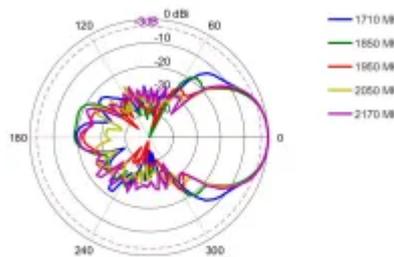


Elevation Polar Plot

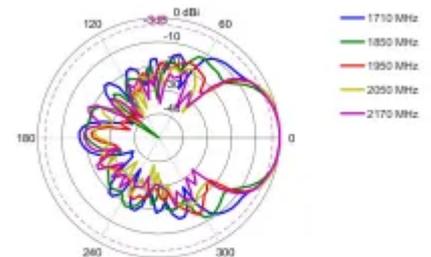


Start Frequency: 1710 MHz
Stop Frequency: 2170 MHz

Azimuth Polar Plot

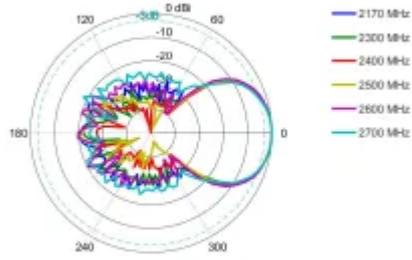


Elevation Polar Plot

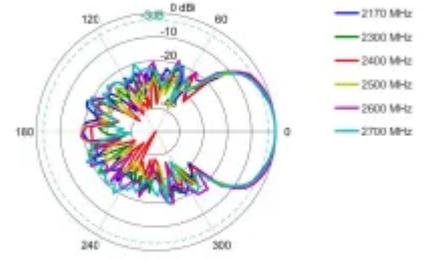


Start Frequency: 2170 MHz
Stop Frequency: 2700 MHz

Azimuth Polar Plot

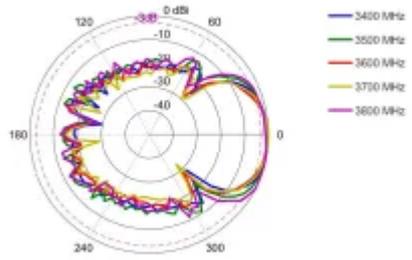


Elevation Polar Plot

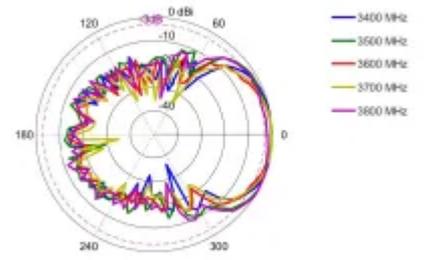


Start Frequency: 3400 MHz
Stop Frequency: 3800 MHz

Azimuth Polar Plot



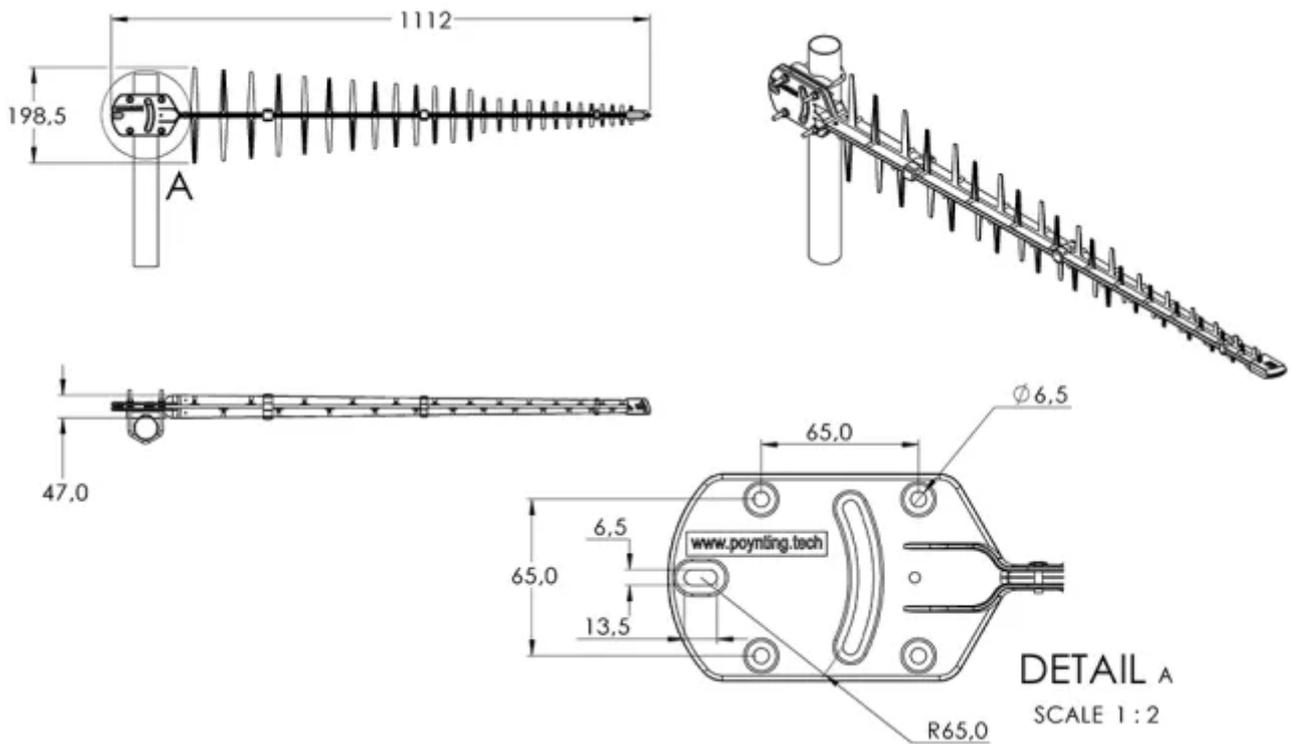
Elevation Polar Plot



Physical Specification

| | | | |
|-----------------------------|---------------------------|----------------------------|------------------------|
| Subtype: | Log Periodic Dipole Array | Dimensions: | 1112 x 47 x 200 |
| Input Ports: | 1 | Ingress Protection: | IP65 |
| MIMO: | 1x1 SISO | Materials: | Aluminium |
| Min. Operating Temperature: | -40 °C | Mounting: | Pole Clamp 25 to 63 mm |
| Max. Operating Temperature: | 80 °C | Weight: | 1.55 kg |
| | | Compliance/Certifications: | CE , RoHS |

Drawing



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