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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.

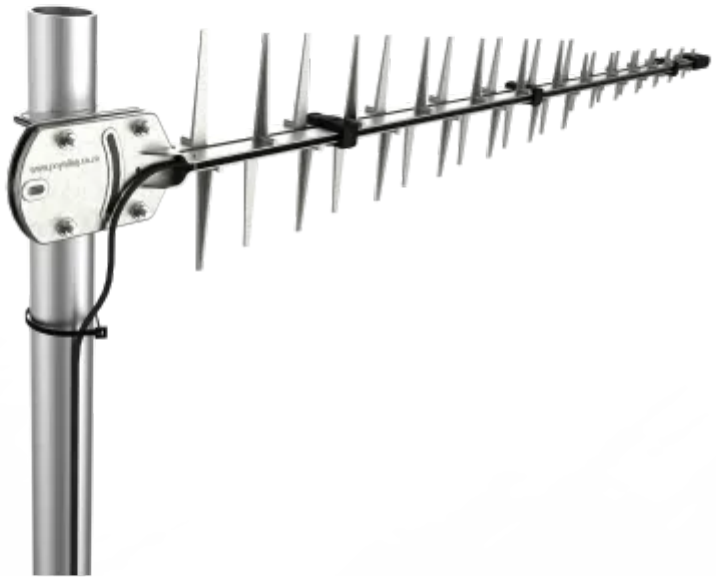
The LPDA-92 antenna is also capable of operation on 5G frequencies, although at a lower gain (2.3 dBi).

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.

Read More

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.



Poynting

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 ...

RF Specification

Start Frequency
698 MHz
Stop Frequency
3800 MHz
Max. Input Power
10 W
Polarisation
Vertical (V)
Input Impedance
50 Ω
RF Connectors

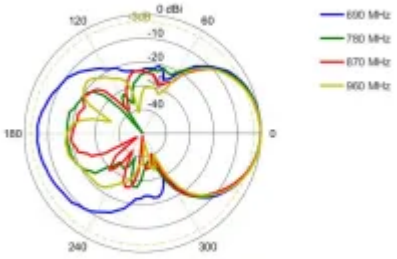
Ports	RF Interface	Body Shape	Cable Series	Length
1	N Female	Straight	L-195	300 mm

Frequency Test Data

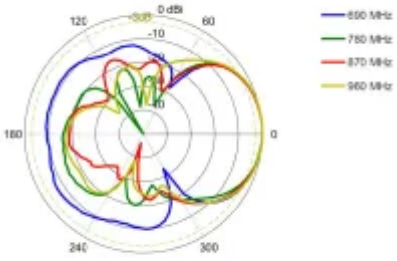
Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth	Elevation	F/B Ratio
698 MHz	960 MHz	10.8 dBi	< 1.5:1	60°	65°	> 5 dB
1427 MHz	1517 MHz	10 dBi	< 1.5:1	50°	55°	> 15 dB
1710 MHz	2170 MHz	11 dBi	< 1.5:1	50°	55°	> 15 dB
2170 MHz	2700 MHz	11 dBi	< 1.5:1	40°	45°	> 18 dB
3400 MHz	3800 MHz	2.3 dBi	< 1.5:1	60°	90°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

Polar Patterns
Start Frequency
698 MHz
Stop Frequency
960 MHz

Azimuth Polar Plot

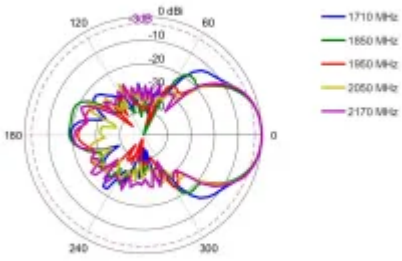


Elevation Polar Plot

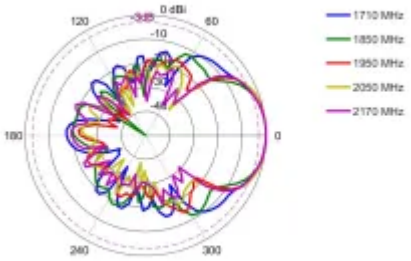


Start Frequency
1710 MHz
Stop Frequency
2170 MHz

Azimuth Polar Plot

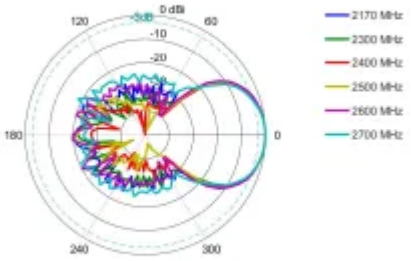


Elevation Polar Plot

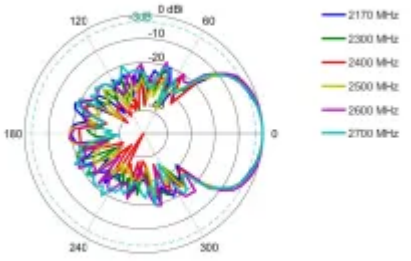


Start Frequency
2170 MHz
Stop Frequency
2700 MHz

Azimuth Polar Plot

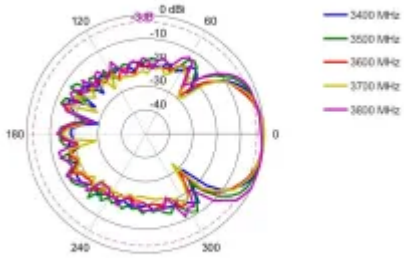


Elevation Polar Plot

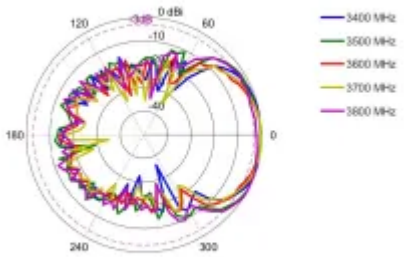


Start Frequency
3400 MHz
Stop Frequency
3800 MHz

Azimuth Polar Plot



Elevation Polar Plot



Physical Specification

Subtype
Log Periodic Dipole Array
Input Ports
1
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
80 °C
Dimensions
1112 x 47 x 200
Ingress Protection
IP65

Materials

Aluminium

Mounting

Pole Clamp 25 to 63 mm ⌀

Weight

1.55 kg

Compliance/Certifications

CE

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RoHS

Drawing