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Page



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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

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

Start Frequency

Ports RF Interface Body Shape Cable Series Length

1	<u>N Female</u> Stra		aight <u>L-195</u>		300	mm	
Frequency Test Data							
Start Freq. Stop Freq. Peak Gain VSWR Azimuth Elevation F/B Ratio							
698 N	1Hz	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



1950 MHz - 2050 MHz 2170 MHz

Start Frequency 2170 MHz Stop Frequency 2700 MHz

Azimuth Polar Plot



2300 MP4z -2400 MHz -2500 MHz - 2600 MHz - 2700 MHz

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 <u>Aluminium</u> Mounting <u>Pole Clamp 25 to 63 mm ø</u> Weight 1.55 kg Compliance/Certifications CE

RoHS

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