Powertec Wireless Technology
ABN: 42 082 948 463
PO Box 1034, Ashmore City
Queensland, Australia, 4214
sales@powertec.com.au
1300 769 378

Powertec 4G-5G LPDA Antenna, 698 to 4000 MHz, 4.3-10 Female

SKU
IBC-PT-00021
MPN
LLP-6940-12.432
Barcode
9337692001529

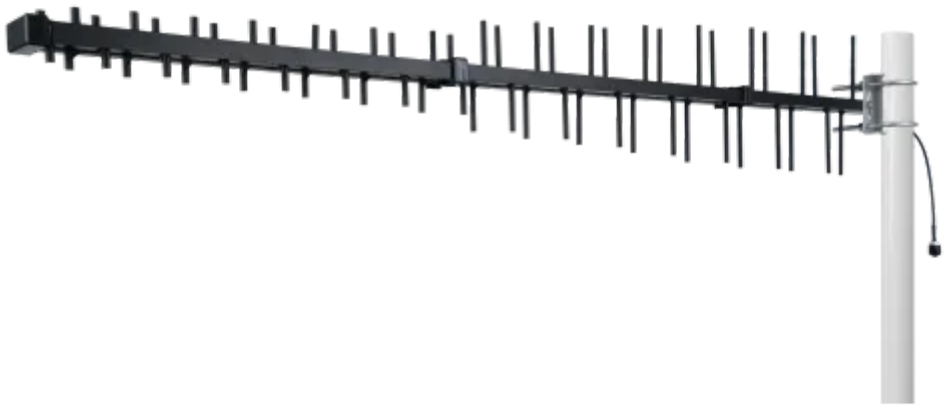
Description

Powertec's LPDA Antenna is the most popular external antenna solution for poor 4G-5G voice and data service. This single antenna can be used on any mobile network, in any area without worrying about compatibility. It is the ideal roof-mounted antenna for Cel-Fi repeaters.

The LPDA antenna covers all cellular bands between the 700 and 4000 MHz range with a high peak gain which projects maximum energy in the direction of the cell tower, while maintaining a wide enough beam to capture signal reflections off nearby buildings, hills, and signal scattered by trees. Multiband LTE-NR covering major bands between 698 to 4000 MHz.

A Log Periodic Dipole Antenna, or LPDA for short, is a clever antenna design that provides exceptional wideband performance by phasing a series of elements together, much like the Yagi design but with each successive element of a smaller (or larger) length. The result of this clever engineering is an antenna that holds ...

Read More



Powertec

Powertec is a wireless technology manufacturer and systems integrator based in Australia. Operating since 1995, Powertec has grown to become the leading wireless technology distributor in its region, and a leading Infratech systems developer. Supporting over 1500 partners the company provides procurement, design, project management, and support services across Australia, New Zealand, Pacific ...

RF Specification

Start Frequency
698 MHz
Stop Frequency
4000 MHz
Max. Input Power
50 W
Polarisation
Vertical (V)
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	4.3-10 Female	Straight	RG-142	300 mm

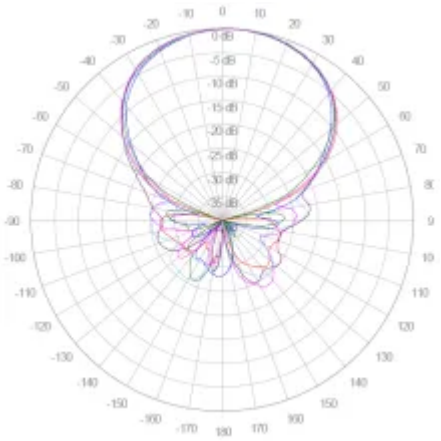
Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth	Elevation	F/B Ratio
698 MHz	803 MHz	11.1 dBi	< 1.8:1	60°	46°	> 28 dB
803 MHz	960 MHz	11.3 dBi	< 1.8:1	60°	47°	> 26 dB
1695 MHz	2200 MHz	11.5 dBi	< 1.8:1	45°	34°	> 24 dB

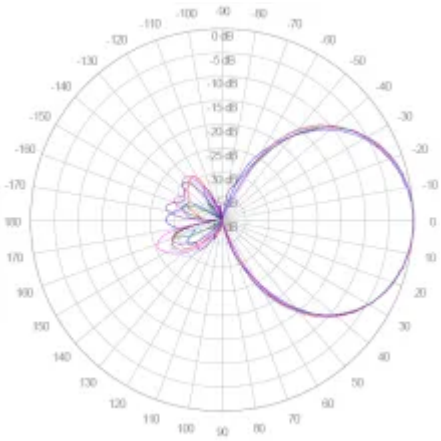
Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth	Elevation	F/B Ratio
2200 MHz	2700 MHz	10.7 dBi	< 1.8:1	50°	40°	> 13 dB
3300 MHz	4000 MHz	9.5 dBi	< 1.6:1	34°	30°	> 9 dB

Polar Patterns
Start Frequency
698 MHz
Stop Frequency
960 MHz

Azimuth Polar Plot

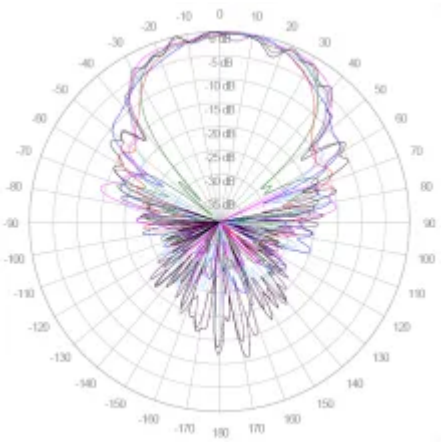


Elevation Polar Plot

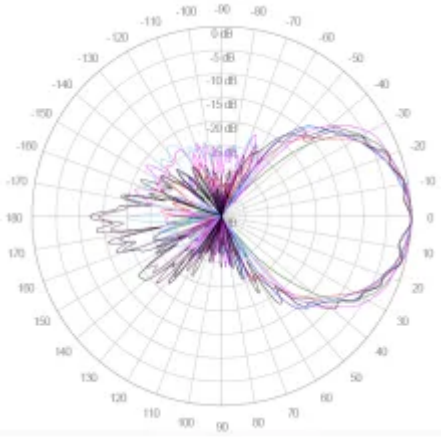


Start Frequency
1695 MHz
Stop Frequency
2700 MHz

Azimuth Polar Plot



Elevation Polar Plot



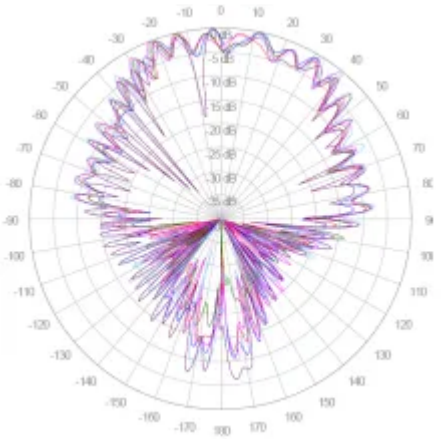
Start Frequency

3300 MHz

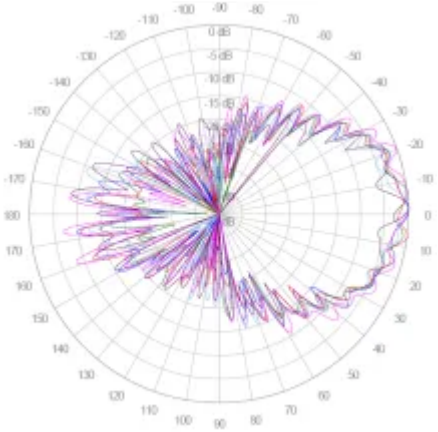
Stop Frequency

4000 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
65 °C
Dimensions
1240 x 60 x 200
Materials
Aluminium
Mounting
Pole Clamp 25 to 52 mm ⌀
Weight
2.2 kg