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

RF Specification

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

RF Connectors

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

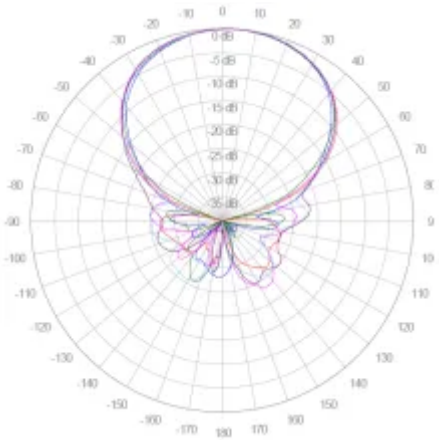
Frequency Test Data

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
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

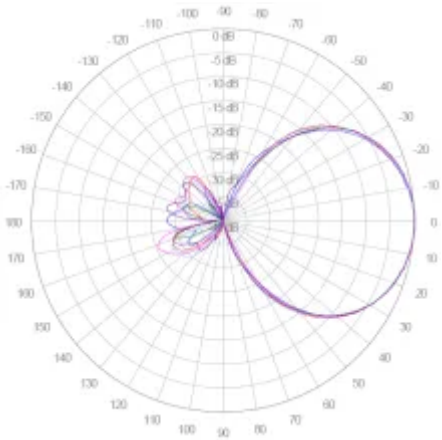
Polar Patterns

Start Frequency: 698 MHz
Stop Frequency: 960 MHz

Azimuth Polar Plot

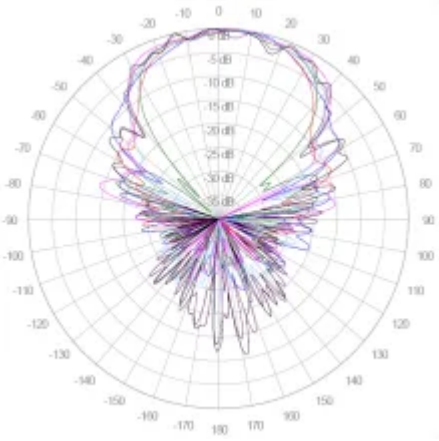


Elevation Polar Plot

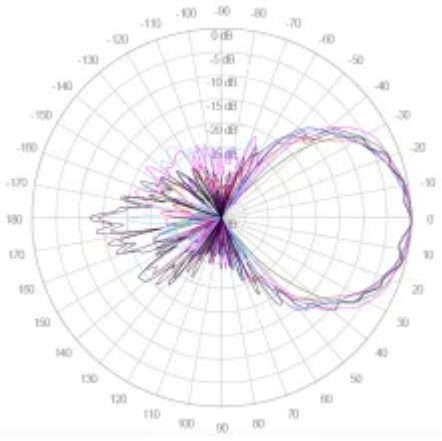


Start Frequency: 1695 MHz
Stop Frequency: 2700 MHz

Azimuth Polar Plot



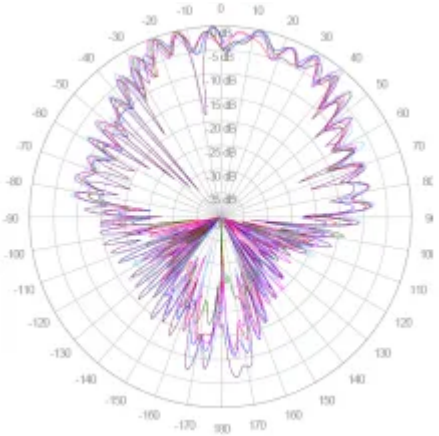
Elevation Polar Plot



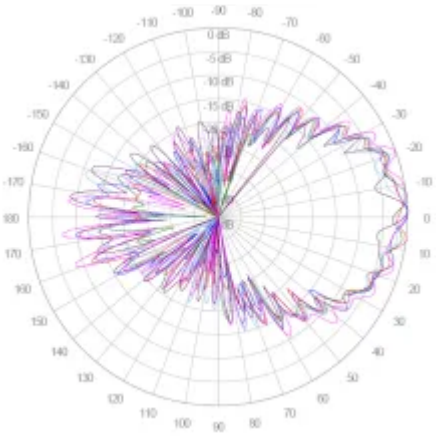
Start Frequency: 3300 MHz

Stop Frequency: 4000 MHz

Azimuth Polar Plot



Elevation Polar Plot



Physical Specification

Subtype:	Log Periodic Dipole Array	Dimensions:	1240 x 60 x 200
Input Ports:	1	Materials:	Aluminium
MIMO:	1x1 SISO	Mounting:	Pole Clamp 25 to 52 mm
Min. Operating Temperature:	-40 °C	Weight:	2.2 kg
Max. Operating Temperature:	65 °C		

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.