

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 ...

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RF Specification

Start Frequency:	698 MHz	Polarisation:	Vertical (V)
Stop Frequency:	4000 MHz	Input Impedance:	50
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

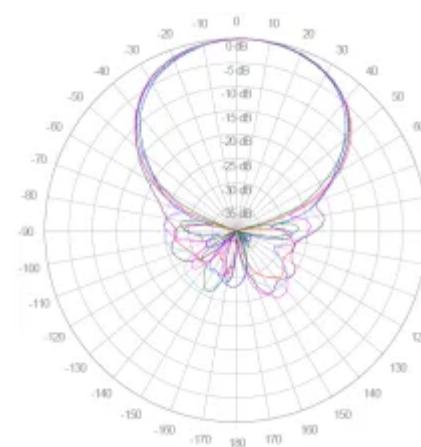
Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth	Elevation	F/B Ratio
698 MHz	803 MHz	11.1 dBi	< 1.8:1	60°	46°	> 28 dB
803 MHz	960 MHz	11.3 dBi	< 1.8:1	60°	47°	> 26 dB
1695 MHz	2200 MHz	11.5 dBi	< 1.8:1	45°	34°	> 24 dB
2200 MHz	2700 MHz	10.7 dBi	< 1.8:1	50°	40°	> 13 dB
3300 MHz	4000 MHz	9.5 dBi	< 1.6:1	34°	30°	> 9 dB

Polar Patterns

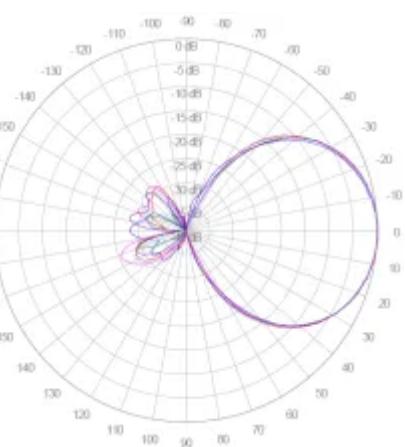
Start Frequency: 698 MHz

Stop Frequency: 960 MHz

Azimuth Polar Plot



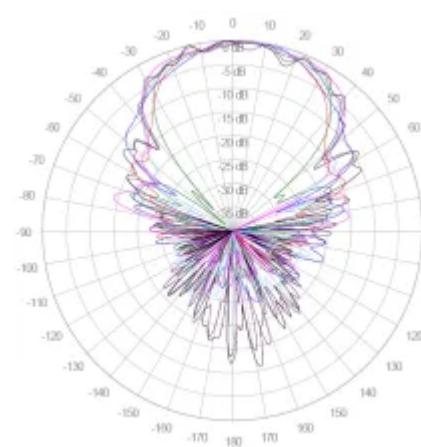
Elevation Polar Plot



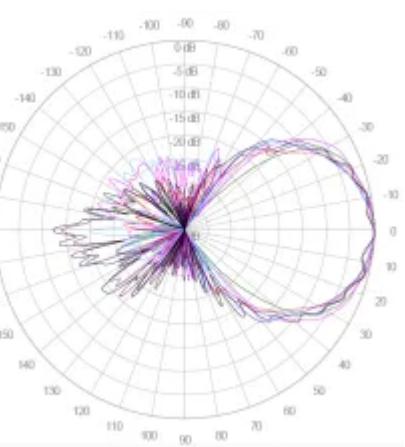
Start Frequency: 1695 MHz

Stop Frequency: 2700 MHz

Azimuth Polar Plot



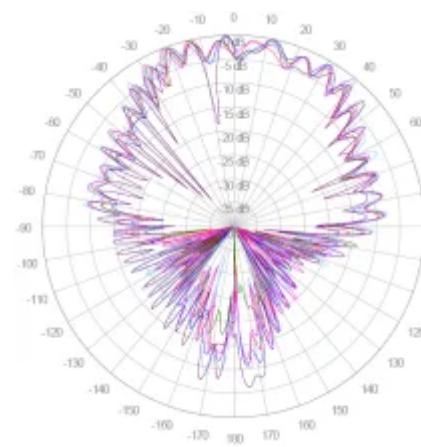
Elevation Polar Plot



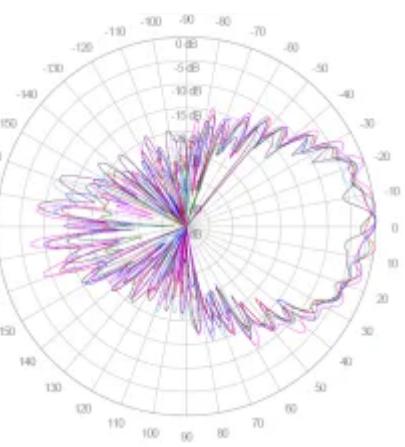
Start Frequency: 3300 MHz

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		

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