Powertec Wireless Technology
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Powertec 4G-5G Wideband LPDA Antenna, 698 to 4000 MHz, N Female, PTL-240 Coaxial Cable N Male to SMA Male, 10m

SKU
ANT-BH-00077
MPN
LLP-6940-7.N2

Barcode
9337692001499

Description

Powertec's Mini LPDA is a small antenna that provides good performance with a lightweight, low-cost design. There are plenty of situations where a large, solid metal antenna is necessary, but also plenty where something quick and small can be just as effective. This antenna is great for areas where indoor signal is weak, and a straight-forward antenna on the roof is enough to give a fantastic improvement.

Log Periodic Dipole Arrays (LPDA) are a type of antenna that have a series of metal elements arranged in a triangular pattern, with smaller elements tuned to smaller wavelengths, and larger elements tuned to larger wavelengths. This allows this one antenna to operate across all 4G-5G bands within the 700 to 4000 MHz cellular frequency range.

This style of compact LPDA (440 mm length) is one of the world's most used cellular antenna types. It has been designed with a 9 dBi nominal gain which provides good directionality while still maintaining a broad-enough beam so that alignment to the base station remains easy and installation is simple.



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

Connection 1

Start Frequency
698 MHz
Stop Frequency
4000 MHz
Max. Input Power
50 W
Polarisation
Linear
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	N Female	Straight	RG-58	300 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth	Elevation	F/B Ratio
698 MHz	960 MHz	8.5 dBi	< 2:1	90°	66°	> 15 dB
1695 MHz	2700 MHz	9.5 dBi	< 1.5:1	75°	58°	> 15 dB
3300 MHz	4000 MHz	9.5 dBi	< 1.8:1	54°	42°	> 15 dB

Physical Specification

Subtype
Log Periodic Dipole Array
Input Ports
1
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
65 °C
Dimensions
440 x 60 x 205
Ingress Protection

IP65
Materials
ABS Plastic
Mounting
Pole Clamp 25 to 52 mm ⌀
Weight
1.15 kg

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