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Powertec 4G-5G Mini-LPDA Antenna, 700 to 4000 MHz

Model Number

VLP-6940-9.N2

GTIN-13

9337692001499

Polarisation

Linear

Design Type

Log Periodic Dipole Array

RF Category

Cellular

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.

- Optimum 9 dBi gain for general usage
- Pole mounting bracket to suit multiple polarisations, multiple pole sizes
- Extra-UV Stable ABS Radome
- Short 300 mm RG-142 cable tail with N Female connector.

Antenna Technical Data

PHYSICAL CHARACTERISTICS

Construction Material	ABS Plastic	RF Connections	1
Radome Colour	White	Environmental Rating	No Data
Dimensions	440 × 60 × 205 mm	Operating Temperature	-40 °C to 65 °C
Weight	1.2 kg	Mounting	Pole Ø 25 to 50 mm

ELECTRICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS

Input Impedance	50 Ω	Input Connector	N
Polarisation	Linear	Input Connector Gender	Female
Max. Input Power	50 W	Cable Series	RG-142
PIM, 3rd Order	-	Cable Length	300 mm

FREQUENCY RANGE	PEAK GAIN	VSWR	AZ.	EL.	F/B RATIO	INTER-PORT	XPI
698 to 960 MHz	8.5 dBi	< 2.0:1	90°	66°	> 15 dB	-	-
1695 to 2700 MHz	9.5 dBi	< 1.5:1	75°	58°	> 15 dB	-	-
3300 to 4000 MHz	9.5 dBi	< 1.8:1	54°	42°	> 15 dB	-	-

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