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

Poynting OMNI-297, Omni-Directional, Wideband Rhyno, 4G-5G antenna, 617 to 3800 MHz

SKU
ANT-PY-00056
MPN
A-OMNI-0297-V1-01

Description

The Poynting OMNI-297 is a robust omni-directional 4G-5G antenna, designed for versatile high-speed wireless data applications. Operating across a wide frequency range of 617 to 3800 MHz, this whip-type antenna excels in delivering reliable connectivity for residential 4G LTE, GSM, M2M, DTV, and other customer premise equipment applications. Its linear polarisation and 50 Ω impedance ensure optimal signal transmission, while the antenna's capability to handle up to 10 W input power makes it suitable for demanding environments.

Constructed from durable ASA plastic, the OMNI-297 is IP69K certified for superior ingress protection, enduring harsh weather conditions from -40 °C to 80 °C. Weighing just 0.35 kg and measuring 155 x 70 mm, it is compact and lightweight, ideal for space-conscious installations. Its compliance with CE, RoHS, and ISO 9001 standards, combined with MIL-STD-810 environmental durability certification, underscores its...

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Poynting

Poynting is a top global provider of integrated antenna solutions, responsible for the innovation, design and manufacture of its market-leading products. Established as a consultancy in 1990, Poynting evolved into an official PTY in 1997 and in 2001 established Poynting Antennas. It caters antenna solutions for primarily wireless high speed data applications, including residential 4G LTE as well ...

RF Specification

Start Frequency
617 MHz
Stop Frequency
3800 MHz
Max. Input Power
10 W
Polarisation
Linear
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	RG-58	600 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR
617 MHz	960 MHz	-3.5 dBi	< 2.5:1
1427 MHz	1517 MHz	-1 dBi	< 2.5:1
1710 MHz	2700 MHz	2 dBi	< 2.5:1
3400 MHz	3800 MHz	1.8 dBi	< 2.5:1

Physical Specification

Subtype
Whip
Input Ports
1
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
80 °C
Dimensions
155 x 70
Ingress Protection
IP69K
Materials
ASA Plastic
Weight

0.35 kg
Compliance/Certifications
CE
,
RoHS
,
ISO 9001 Quality Management
Mechanical Compliance
MIL-STD-810: Environmental Durability

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