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Poynting HELI-6, Directional, Circular-Polarised Tunnel, 4G/LoRa antenna; 698 to 960 MHz

SKU
ANT-PY-00009
MPN
A-HELI-0006-V1-01

Description

The Poynting HELI-6 is a high-performance directional, circular-polarised helical antenna ideal for 4G/LoRa applications. Operating within the 698 to 960 MHz frequency range, this antenna ensures robust connectivity for GSM, M2M, and digital television systems. Its left-hand circular polarisation enhances signal reception in challenging environments, making it ideal for tunnel and other demanding installations.

With a peak gain of 13.5 dBi and a VSWR of less than 2.0:1, the HELI-6 delivers excellent RF performance. It features a single N Female connector, directly mounted on the antenna, providing streamlined installation. The antenna is constructed from durable polyvinyl chloride (PVC), ensuring reliability in harsh conditions, as indicated by its IP65 rating and ability to operate between -40 °C and 70 °C.

Compliant with CE and RoHS standards and tested to meet MIL-STD-810 environmental durability, the HELI-6 is built for longevity and...

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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
690 MHz
Stop Frequency
960 MHz
Max. Input Power
30 W
Polarisation
Left Hand Circular (LHCP)
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface
1	N Female

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR
690 MHz	960 MHz	13.5 dBi	< 2:1

Physical Specification

Subtype
Helical
Input Ports
1
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
70 °C
Dimensions
705 x 245 x 197
Ingress Protection
IP65
Materials
Polyvinyl Chloride (PVC)
Weight
4.2 kg

Compliance/Certifications
CE
,
RoHS
Mechanical Compliance
MIL-STD-810: Environmental Durability

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