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Powertec Wideband 4G & NB-IoT Adhesive Antenna, 700 to 2700 MHz

MPN VADH-6927-2

Description

VADH-6927-2 wideband adhesive mount antenna is a high performance cellular antenna covering most worldwide 4G cellular bands between 698 and 2690 MHz.

The antenna has a compact design permitting unobtrusive and convenient installation in automotive vehicles. The antenna has been certified to IP53 ingress protection rating making it suitable for a range of outdoor and industrial IoT applications.

Commonly adhesive microstrip antennas are optimised for performance on the upper 1695 to 2690 MHz band. This model has been designed specifically for high efficiency on the lower 698 to 960 MHz band making it ideal for NB-IoT, LTE-M, LoRa, and other low frequency technologies.

Read More

This antenna has been exclusively designed for Powertec as an economical solution for large scale projects requiring absolute consistency in manufacturing to ensure repeatable, reliable performance throughout your project.

Read More





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

Start Frequency 698 MHz

Stop Frequency

2700 MHz

Max. Input Power

10 W

Polarisation

Linear

Input Impedance

50 Ω

RF Connectors

Ports RF Interface Body Shape Cable Series Length

1 <u>SMA Male</u> <u>Straight</u> <u>RG-174</u> 1500 mm

Frequency Test Data

Start Freq. Stop Freq. Peak Gain VSWR Efficiency

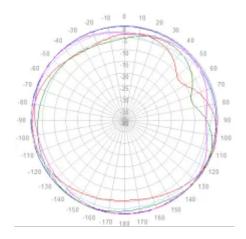
698 MHz 824 MHz 1.8 dBi < 2.5:1 65% 824 MHz 960 MHz 3.2 dBi < 2.5:1 60% 1695 MHz 2200 MHz 3 dBi < 2.5:1 51%

Start Freq. Stop Freq. Peak Gain VSWR Efficiency

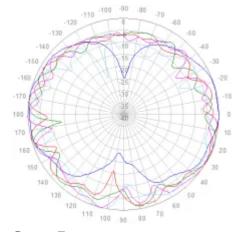
2200 MHz 2690 MHz 2 dBi < 2.5:1 40%

Polar Patterns Start Frequency 698 MHz Stop Frequency 960 MHz

Azimuth Polar Plot

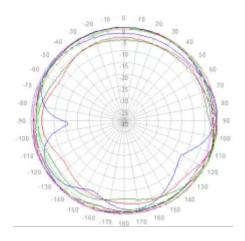


Elevation Polar Plot

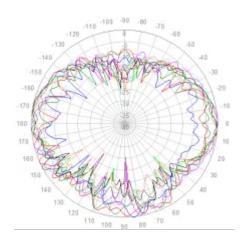


Start Frequency 1710 MHz Stop Frequency 2690 MHz

Azimuth Polar Plot



Elevation Polar Plot



Physical Specification

Subtype

Adhesive Patch

Input Ports

1

MIMO

1x1 SISO

Min. Operating Temperature

-40 °C

Max. Operating Temperature

85 °C

Dimensions

141 x 25 x 7

Ingress Protection

IP53

Materials

ABS Plastic

Mounting

Adhesive

Weight
0.05 kg
Compliance/Certifications
ISO 9001 Quality Management

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