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

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	SMA Male	Straight	RG-174	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

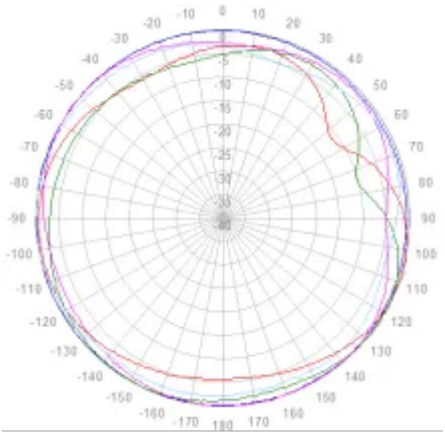
Start Frequency

698 MHz

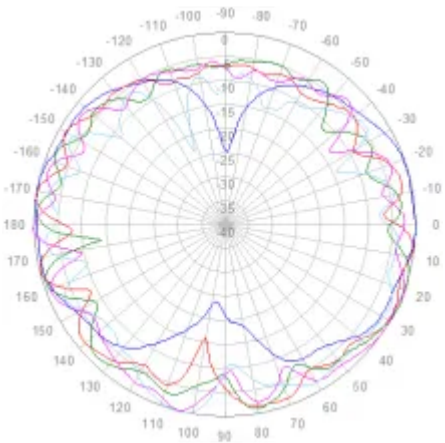
Stop Frequency

960 MHz

Azimuth Polar Plot



Elevation Polar Plot



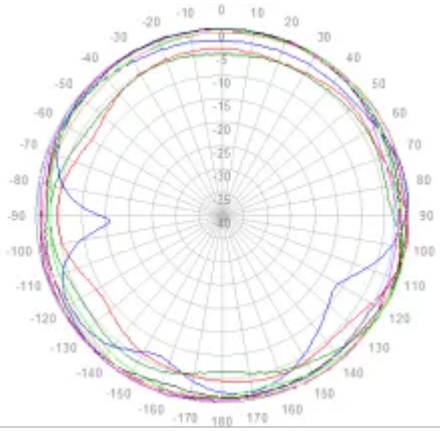
Start Frequency

1710 MHz

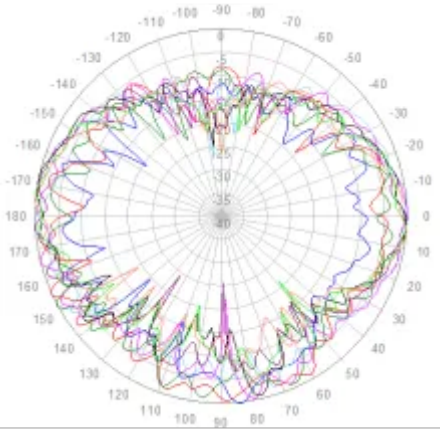
Stop Frequency

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

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

