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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.

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#### 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  | Polarisation:    | Linear |
|-------------------|----------|------------------|--------|
| Stop Frequency:   | 2700 MHz | Input Impedance: | 50     |
| Max. Input Power: | 10 W     |                  |        |

### **RF Connectors**

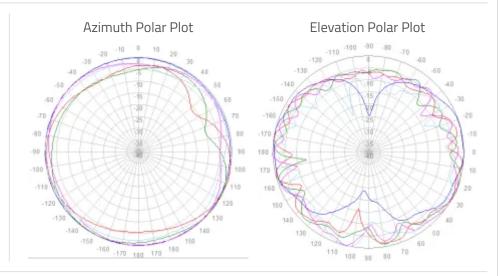
| Ports | RF Interface | Body Shape | Cable Series | Length  |
|-------|--------------|------------|--------------|---------|
| 1     | SMA Male     | Straight   | RG-174       | 1500 mm |

## Frequency Test Data

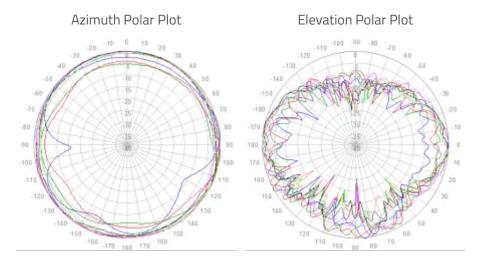
| Start Freq. | Stop Freq. | Peak Gain | VSWR    | Efficiency |
|-------------|------------|-----------|---------|------------|
| 698 MHz     | 824 MHz    | 1.8 dBi   | < 2.5:1 | 65%        |
| 824 MHz     | 960 MHz    | 3.2 dBi   | < 2.5:1 | 60%        |
| 1695 MHz    | 2200 MHz   | 3 dBi     | < 2.5:1 | 51%        |
| 2200 MHz    | 2690 MHz   | 2 dBi     | < 2.5:1 | 40%        |
|             |            |           |         |            |

### Polar Patterns

Start Frequency: 698 MHz Stop Frequency: 960 MHz



Start Frequency: 1710 MHz Stop Frequency: 2690 MHz



# **Physical Specification**

| Subtype:                    | Adhesive Patch | Dimensions:                | 141 x 25 x 7                |
|-----------------------------|----------------|----------------------------|-----------------------------|
| Input Ports:                | 1              | Ingress Protection:        | IP53                        |
| MIMO:                       | 1x1 SISO       | Materials:                 | ABS Plastic                 |
| Min. Operating Temperature: | -40 °C         | Mounting:                  | Adhesive                    |
| Max. Operating Temperature: | 85 °C          | Weight:                    | 0.05 kg                     |
|                             |                | Compliance/Certifications: | ISO 9001 Quality Management |

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