

# 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.

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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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## RF Specification

Start Frequency:	698 MHz	Polarisation:	Linear
Stop Frequency:	2700 MHz	Input Impedance:	50 Ohm
Max. Input Power:	10 W		

RF Connectors

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

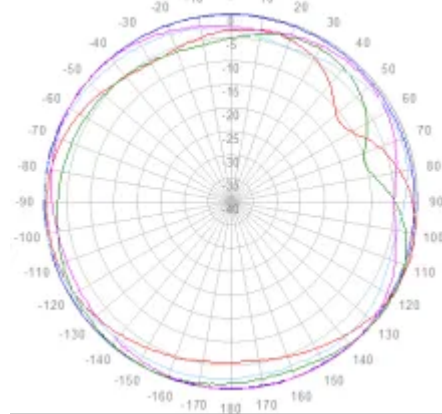
### Frequency Test Data

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%

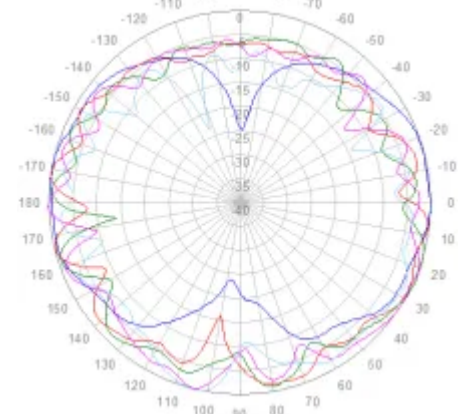
### Polar Patterns

Start Frequency: 698 MHz  
Stop Frequency: 960 MHz

Azimuth Polar Plot

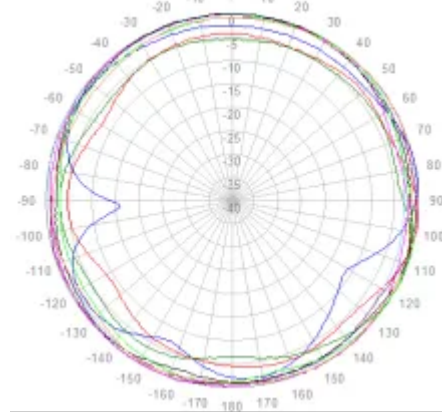


Elevation Polar Plot

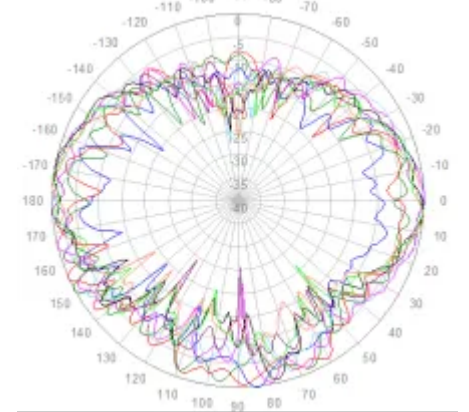


Start Frequency: 1710 MHz  
Stop Frequency: 2690 MHz

Azimuth Polar Plot



Elevation Polar Plot



# Physical Specification

Subtype:	Adhesive Patch	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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