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

## **Powertec 4G Wideband Stud Antenna, 700 to 2700 MHz, SMA Male**

SKU  
ANT-PT-00020  
MPN  
VST-6927-3.SA13  
Barcode  
9337692004391

## Description

The VST-6927-3 antenna is an economic, high performance stud mount wideband 4G antenna for external use on a range of IoT devices including electronic advertising, vending machines, and metering applications. Stable omnidirectional gain and moderate-high efficiency across the entire operating frequency range ensures consistent reception and transmission.

The antenna is mounted on metal and plastic structures and is locked from the inside of the structure by a nut. Rubber gaskets at the base provide a watertight seal to the mounting structure. The model provides a 2 dBi gain across global LTE bands when mounted on non-metallic surfaces, however performance is dramatically improved when mounting on a metal surface to act as a ground plane.

[Read More](#)

Having tested just about all equivalent models across the globe, our team is confident that this model represents the best cost-performance position for mass deployment.

The antenna is low cost but remains very effective in providing consistent and reliable cellular data connectivity in a range of field installation scenarios.

[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

5 W

Polarisation

[Vertical \(V\)](#)

Input Impedance

50  $\Omega$

RF Connectors

**Ports RF Interface Body Shape Cable Series Length**

1      [SMA Male](#)      [Straight](#)      [L-195](#)      2000 mm

Frequency Test Data

**Start Freq. Stop Freq. Peak Gain VSWR Azimuth Efficiency**

698 MHz	824 MHz	4.1 dBi	< 2.8:1	360°	60%
824 MHz	960 MHz	4 dBi	< 2:1	360°	70%
1695 MHz	2200 MHz	5.1 dBi	< 2.5:1	360°	60%
2300 MHz	2700 MHz	3.5 dBi	< 2.5:1	360°	40%

Polar Patterns

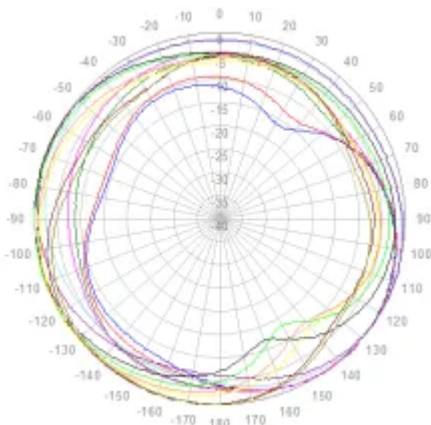
Start Frequency

698 MHz

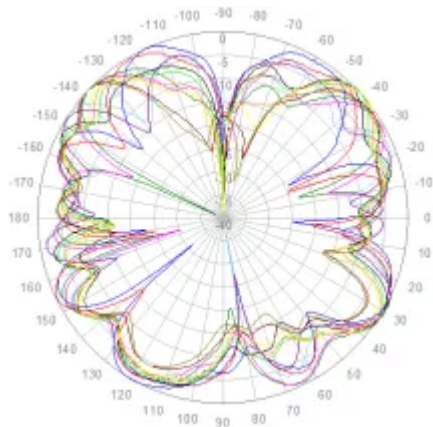
Stop Frequency

960 MHz

**Azimuth Polar Plot**



### Elevation Polar Plot



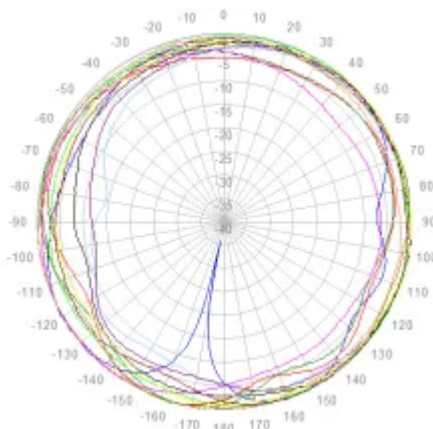
Start Frequency

1695 MHz

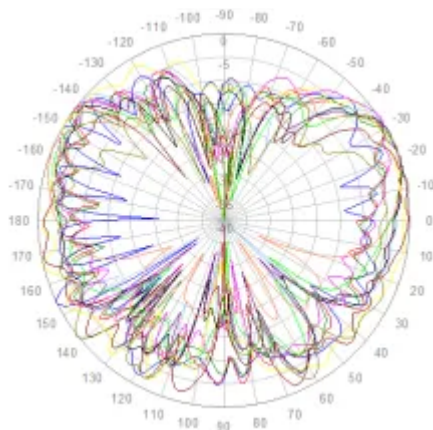
Stop Frequency

2700 MHz

### Azimuth Polar Plot



### Elevation Polar Plot



# Physical Specification

Subtype

[Fin / Stud / Combo](#)

Input Ports

1

MIMO

[1x1 SISO](#)

Min. Operating Temperature

-40 °C

Max. Operating Temperature

85 °C

Dimensions

103 x 45 (L x Dia)

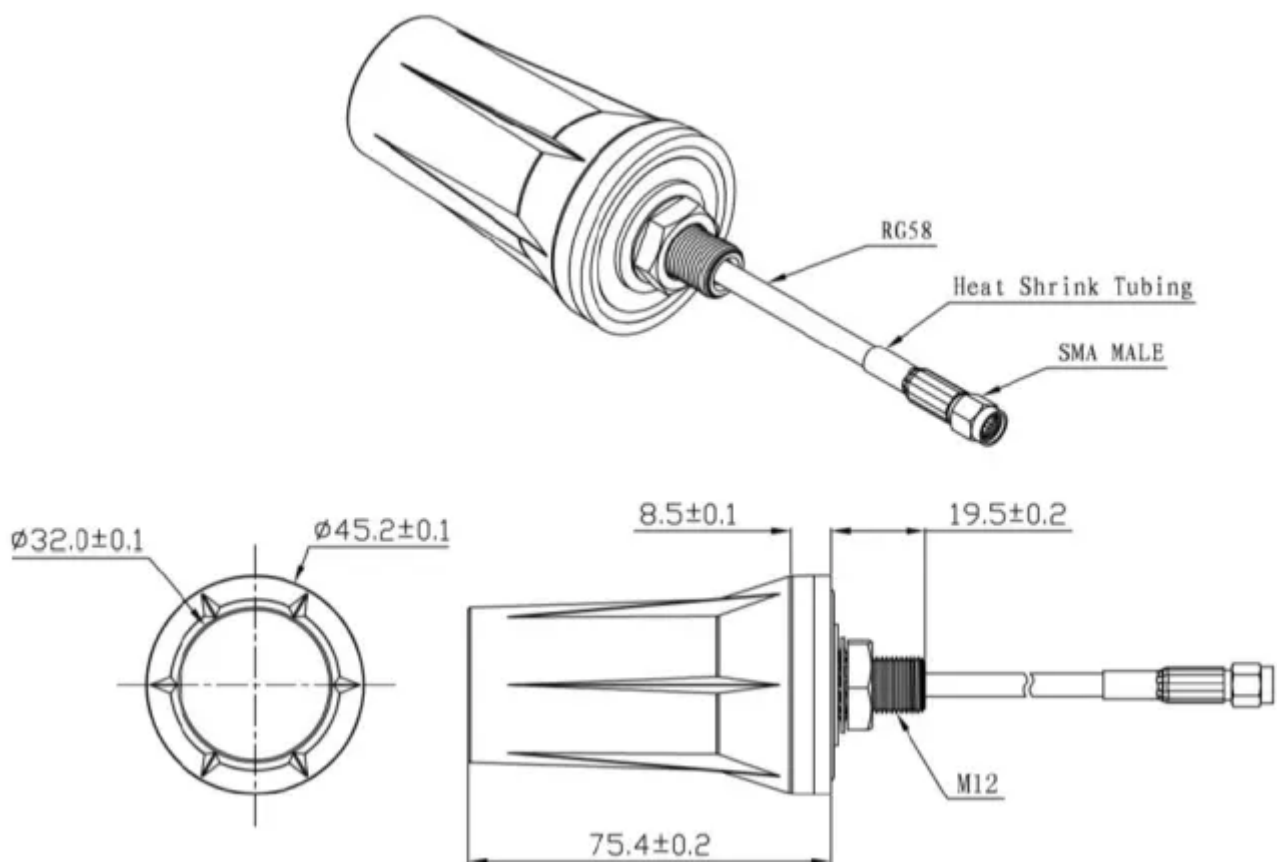
Materials

[ABS Plastic](#)

Mounting

[M12 Stud](#)

Drawing





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