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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.

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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.

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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
Stop Frequency
2700 MHz
Max. Input Power
5 W
Polarisation
Vertical (V)
Input Impedance
50 Ω
RF Connectors

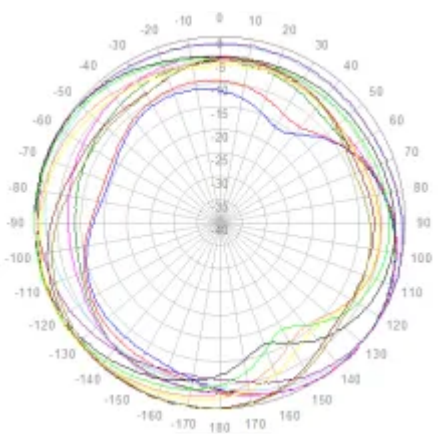
Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	L-195	2000 mm

Frequency Test Data

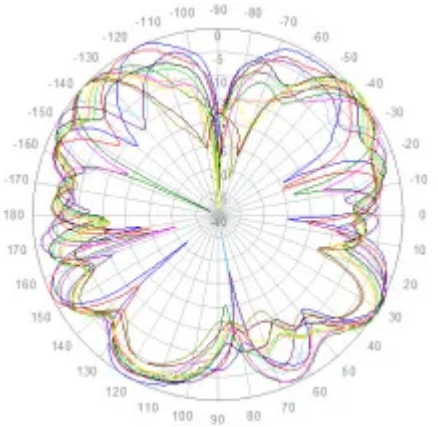
Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth	Efficiency
698 MHz	824 MHz	4.1 dBi	< 2.8:1	360°	60%
824 MHz	960 MHz	4 dBi	< 2:1	360°	70%
1695 MHz	2200 MHz	5.1 dBi	< 2.5:1	360°	60%
2300 MHz	2700 MHz	3.5 dBi	< 2.5:1	360°	40%

Polar Patterns
Start Frequency
698 MHz
Stop Frequency
960 MHz

Azimuth Polar Plot

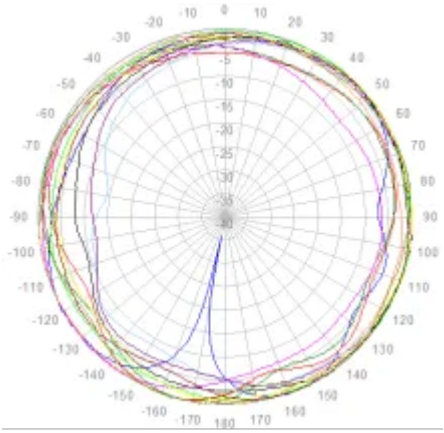


Elevation Polar Plot

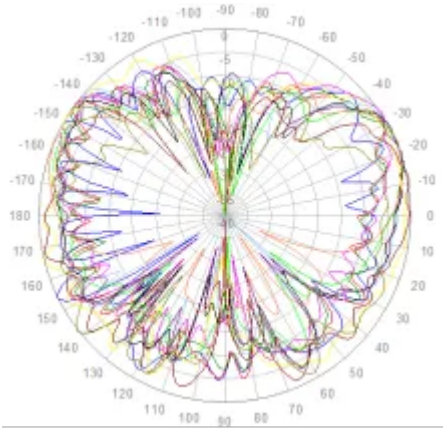


Start Frequency
1695 MHz
Stop Frequency
2700 MHz

Azimuth Polar Plot

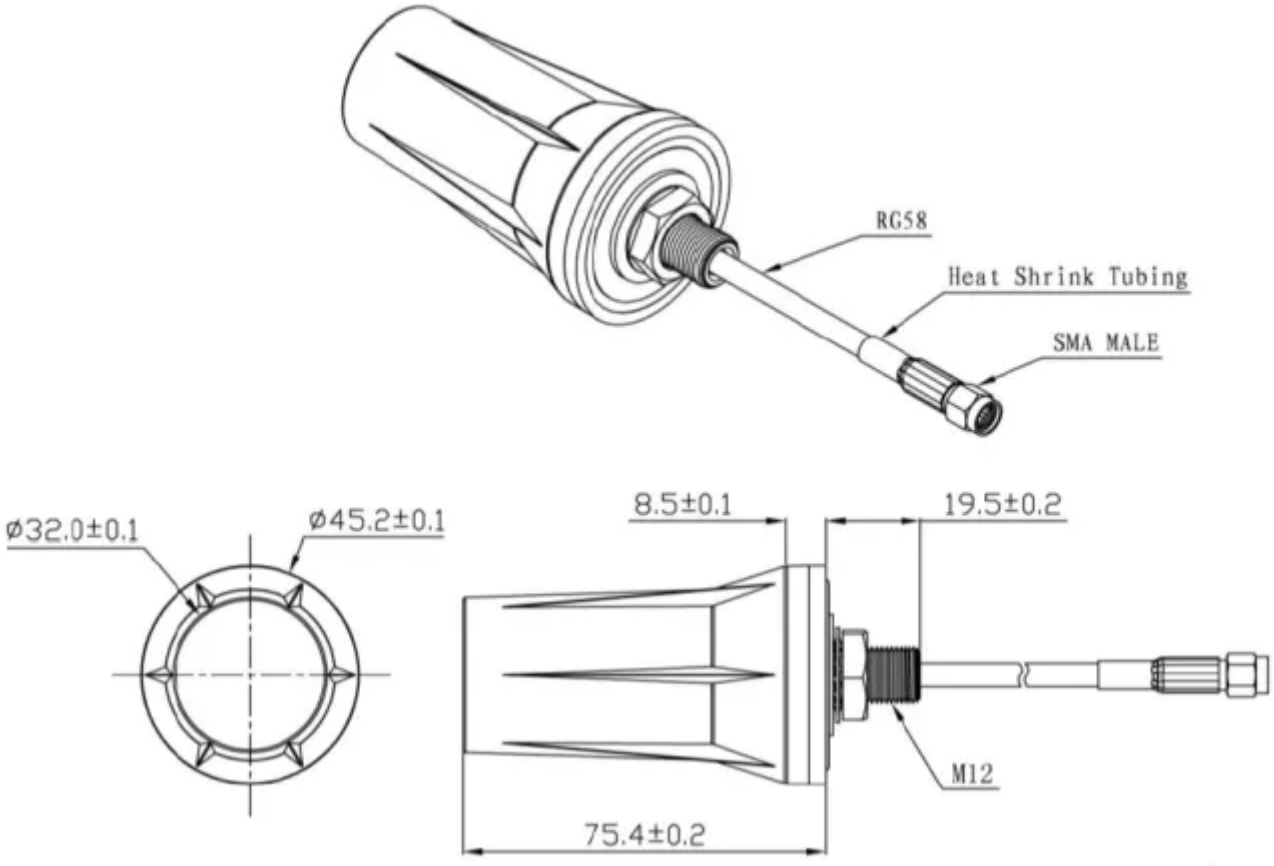


Elevation Polar Plot



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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