

# Blackhawk 4G Omni High Gain Antenna, 698 to 2700 MHz, N Female

SKU: ANT-BH-OM-204

MPN: VCOL-6927-6.N2

Barcode: 9337692000447

## Description

Blackhawk wideband omnidirectional antennas provide high gain across the full cellular band 700 to 2700 MHz regardless of mounting direction, allowing quick and easy installation with no technical know-how required. The antenna provides exceptional omnidirectional performance on almost all mobile networks globally.

The antenna provides a 6 dBi gain across the 4G-5G low and mid-bands, the ideal gain figure for areas with weak mobile signal.

The true wideband performance has been achieved through a clever engineering design utilising multi-sized collinear radiators and microwave-grade combiners, demonstrating consistently high gain with exceptional azimuthal stability.

The Blackhawk Wideband Omni Antenna provides an ideal solution for 4G-5G voice and data applications. With the implementation of new 4G and 5G frequencies across a broad range of radio spectrum, the use of a wideband antenna is necessary to see the full functionality of LTE-Advanced and 5G networks.

This antenna is ideal for use in rural and regional areas with marginal mobile network coverage.

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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:	700 MHz	Polarisation:	Vertical (V)
Stop Frequency:	2700 MHz	Input Impedance:	50
Max. Input Power:	100 W		

## RF Connectors

Ports	RF Interface	Body Shape
1	N Female	Straight

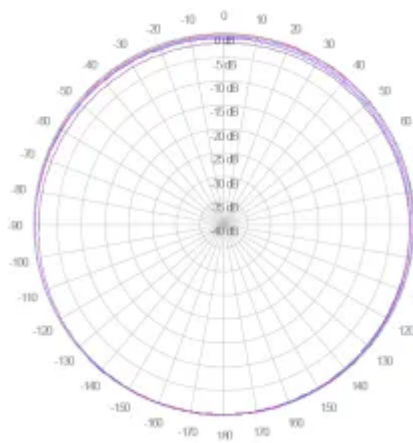
## Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth	Elevation
698 MHz	890 MHz	5 dBi	< 1.6:1	360°	38°
890 MHz	960 MHz	4.5 dBi	< 1.9:1	360°	40°
1695 MHz	2200 MHz	6 dBi	< 2:1	360°	20°
2200 MHz	2700 MHz	6.5 dBi	< 2.3:1	360°	15°

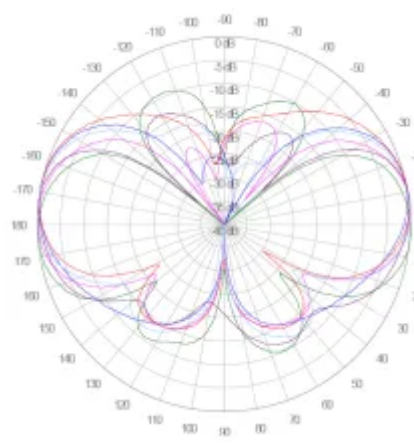
# Polar Patterns

Start Frequency: 698 MHz  
Stop Frequency: 960 MHz

Azimuth Polar Plot

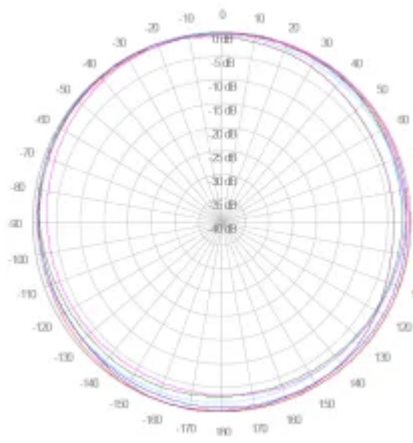


Elevation Polar Plot

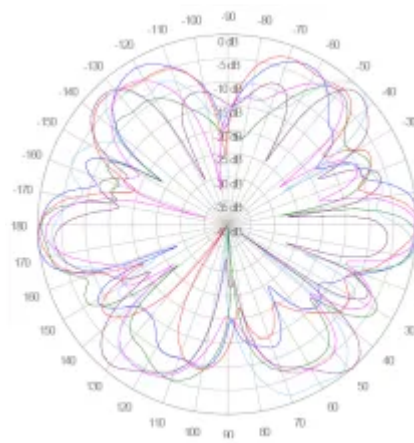


Start Frequency: 1695 MHz  
Stop Frequency: 2700 MHz

Azimuth Polar Plot



Elevation Polar Plot



# Physical Specification

Subtype:	Collinear	Dimensions:	680 x 63 x 63
Input Ports:	1	Materials:	Polyvinyl Chloride (PVC)
MIMO:	1x1 SISO	Mounting:	Pole Clamp 30 to 52 mm
Min. Operating Temperature:	-40 °C	Weight:	1.9 kg
Max. Operating Temperature:	65 °C	Compliance/Certifications:	ISO 9001 Quality Management
		RoHS	

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