

# 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 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 ...

|                   |          |                  |              |
|-------------------|----------|------------------|--------------|
| 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   |

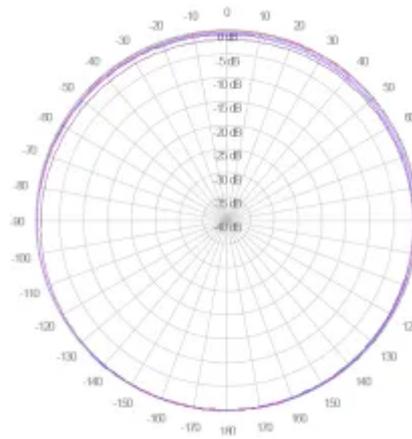
Frequency Test Data

| 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°       |

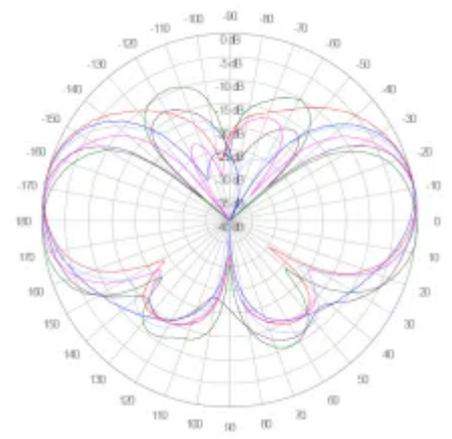
Polar Patterns

Start Frequency: 698 MHz  
Stop Frequency: 960 MHz

Azimuth Polar Plot

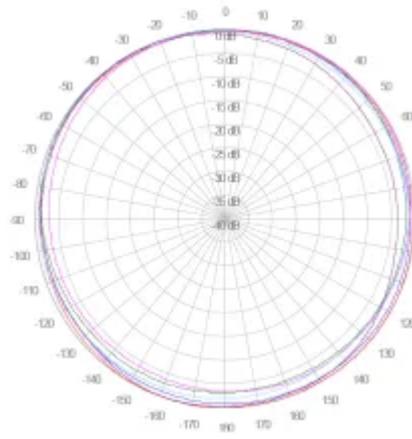


Elevation Polar Plot

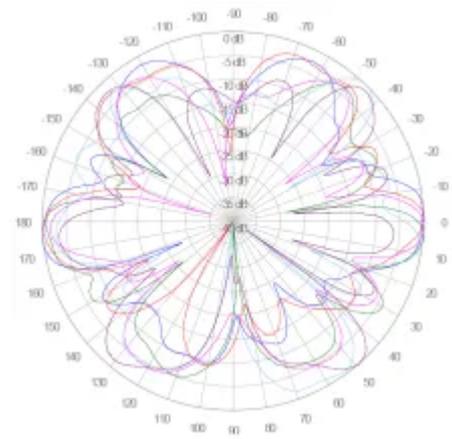


Start Frequency: 1695 MHz  
Stop Frequency: 2700 MHz

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<br>RoHS |

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