

Powertec 4G High Gain Omni Antenna, 700 to 2700 MHz

Model Number

VCOL-6927.N2

Order Code

ANT-BH-OM-204

Polarisation

SISO

Design Type

Collinear

RF Category

Cellular



Blackhawk's 4G 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. This is the ideal omni-directional external antenna for Cel-Fi repeater systems.

Omni antennas are also great for moving plant and machinery. The antenna's 6 dBi gain is considered a sweet spot for maximum performance out to the horizon while still maintaining a wide enough vertical beam to tolerate tilting and pitching as equipment moves over rough ground, or deployed on uneven ground.

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.

- 5 dBi gain across lower bands 698 to 960 MHz
- 6 dBi gain across mid bands 1695 to 2700 MHz
- Ruggedised construction for Australian conditions
- UV-stable PVC construction
- Stainless steel L-bracket included
- Integrated N Female connector

Antenna Technical Data

PHYSICAL CHARACTERISTICS

Construction Material	PVC, Stainless Steel	RF Connections	1
Radome Colour	White	Environmental Rating	No Data
Dimensions	680 x 63 mm	Operating Temperature	-40 °C to 65 °C
Weight	1.9 kg	Mounting	Pole mount Ø 25-52 mm

ELECTRICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS

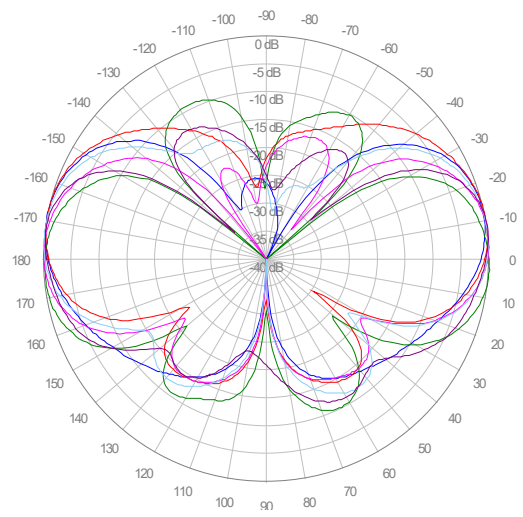
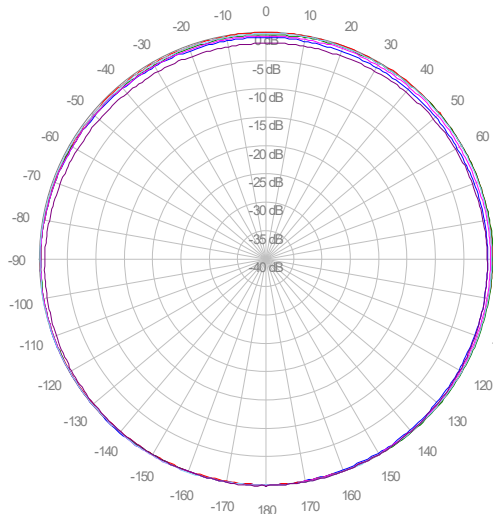
Input Impedance	50 Ω	Input Connector	N
Polarisation	Vertical (V)	Input Connector Gender	Female
Max. Input Power	100 W	Cable Series	None
PIM, 3rd Order	-	Cable Length	None

FREQUENCY RANGE	PEAK GAIN	VSWR	AZ.	EL.	EFFICIENCY	AVG. GAIN	INTER-PORT
698 to 890 MHz	5.0 dBi	< 1.6:1	360°	38°			
890 to 960 MHz	4.5 dBi	< 1.9:1	360°	40°			
1695 to 2200 MHz	6.0 dBi	< 2.0:1	360°	20°			
2200 to 2700 MHz	6.5 dBi	< 2.3:1	360°	15°			

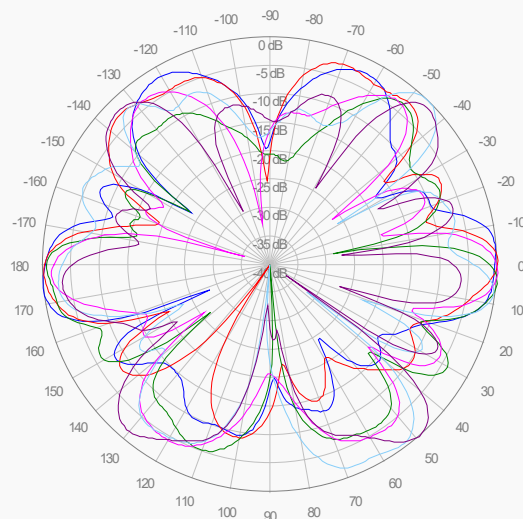
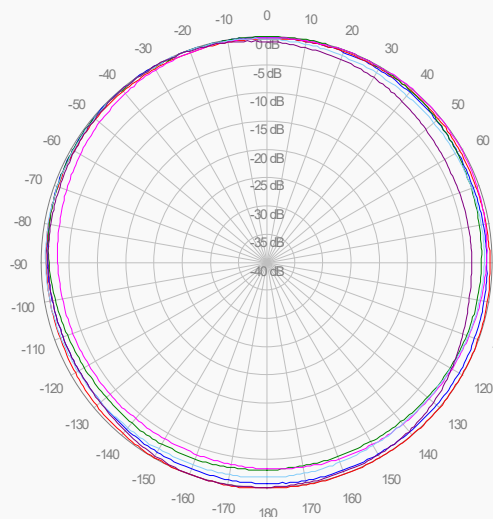
AZIMUTH POLAR PLOT

ELEVATION POLAR PLOT

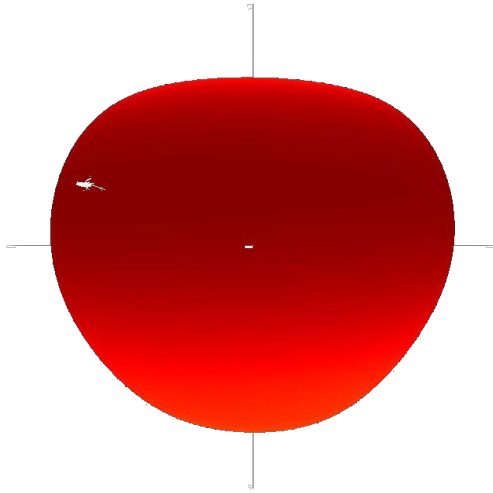
698 to 960 MHz



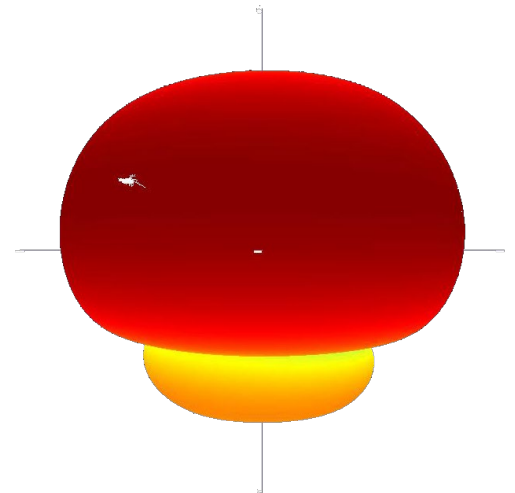
1695 to 2700 MHz



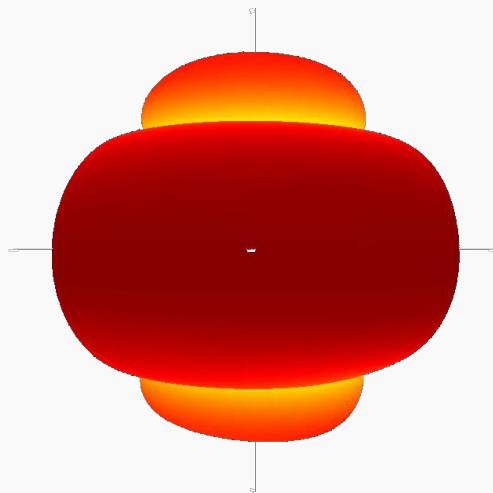
723 MHz



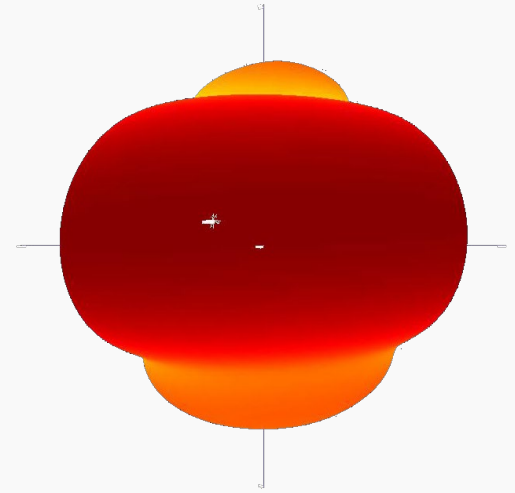
778 MHz



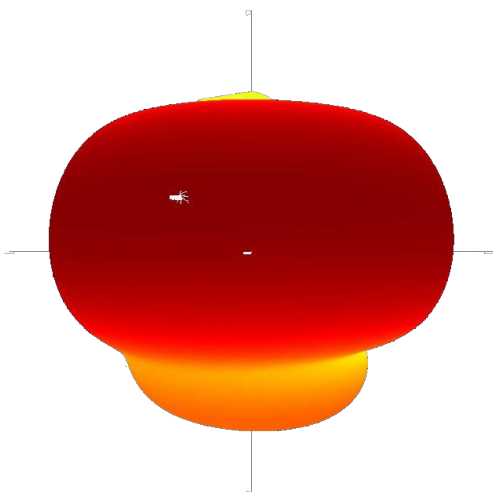
840 MHz



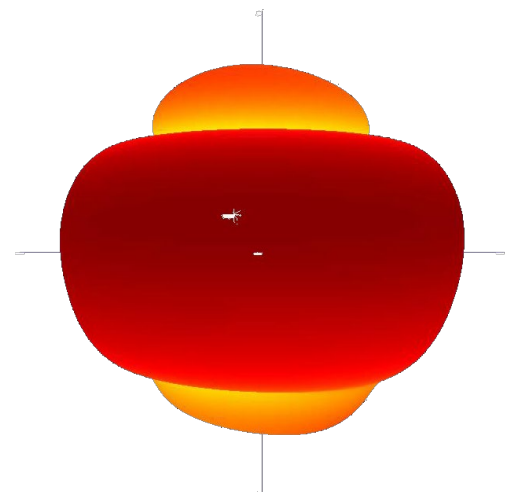
885 MHz



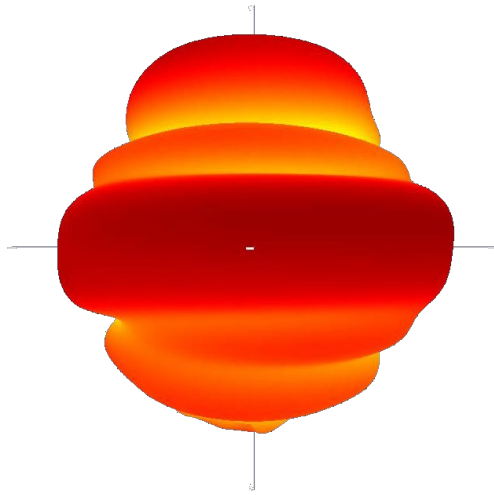
911 MHz



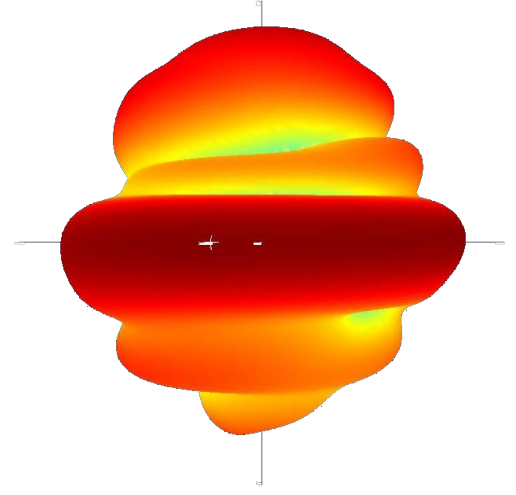
956 MHz



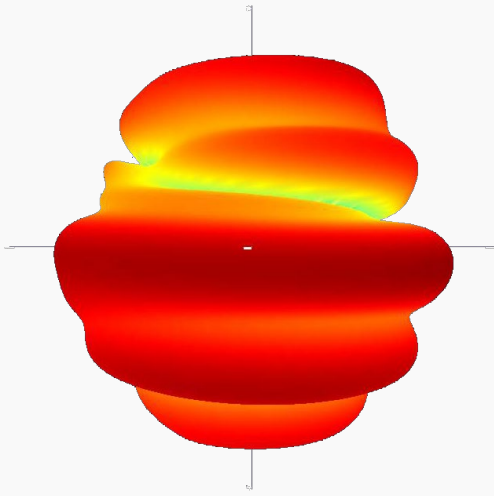
1710
MHz



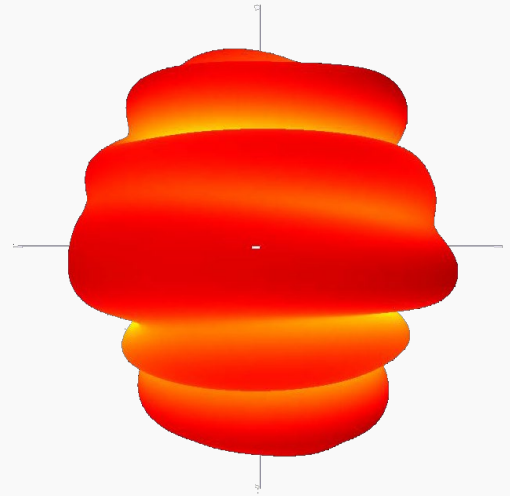
1880
MHz



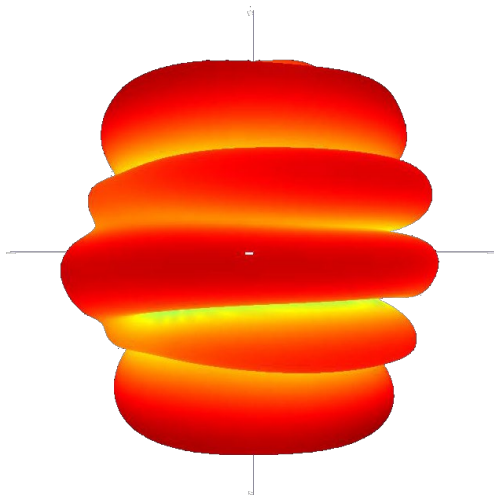
2170
MHz



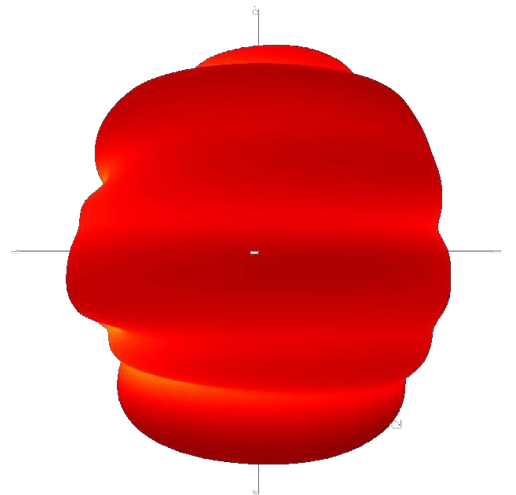
2400
MHz



2600
MHz



2700
MHz



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