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Blackhawk Trucker Edge Compact Lite Antenna, 700 to 2200 MHz, Black

Model Number

WVCL-6922-4

GTIN-13

9337692000317

Polarisation

SISO

Design Type

Vehicle Mounted Collinear

RF Category

Cellular



The Blackhawk Trucker Edge Compact Lite Antenna is designed to provide optimised gain across 3G and 4G bands used when travelling throughout Australia & abroad. This bullbar antenna provides an ideal 4 dBi gain, providing best performance in mixed environments where high gain would lead to decreased performance. The 4 dBi gain is best for urban and rural environments where a taller “butterfly” elevation pattern is necessary to capture reflected and scattered signals.

The Lite model is a variation on the Trucker Edge Compact antenna. The standard Compact model sports an extra-heavy-duty stainless-steel bell-spring for rough corrugations and a strong tapered fibreglass radome. This Lite model implements the same high performance radiative element but with a narrower fibreglass tube and lighter spring base, allowing installation on vehicle boots, fenders, light bars, and other positions where a heavy antenna would be unsuitable.

The antenna has been optimised for the cellular Low Band (700 to 960 MHz) which is used by all network operators as the primary band for voice & data services. With the coming 3G switch-off, Trucker Edge is built ready for 5G NR850. This antenna has been developed by the Powertec team as the ideal companion for Cel-Fi GO. The antenna is supplied pre-terminated and pre-tuned, simply unpack and go.

- Optimum 4 dBi gain for city, urban, and regional areas
- Stainless steel spring
- High vibration PTL-240 Ultra-Flex cabling
- 4.5 metres of cable with an industry standard SMA Male connector.

Antenna Technical Data

PHYSICAL CHARACTERISTICS

Construction Material	Fibreglass, Stainless Steel, Aluminium	RF Connections	1
Radome Colour	Black	Environmental Rating	No Data
Dimensions	600 x 40 mm	Operating Temperature	-40 °C to 65 °C
Weight	1.2 kg	Mounting	Stud Ø 16 mm

ELECTRICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS

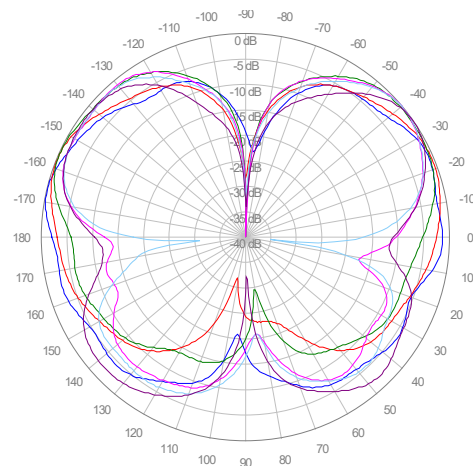
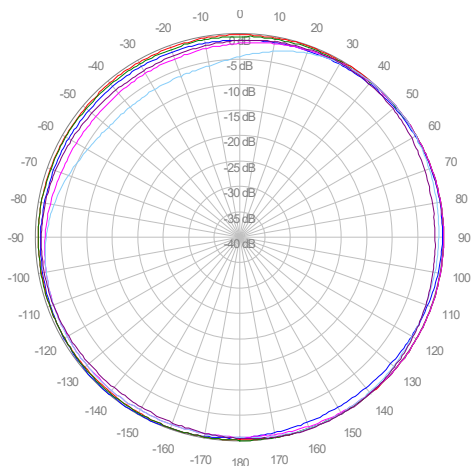
Input Impedance	50 Ω	Input Connector	SMA
Polarisation	Vertical (V)	Input Connector Gender	Male
Max. Input Power	50 W	Cable Series	PTL-240 Ultra-Flex
PIM, 3rd Order	-	Cable Length	4500 mm

FREQUENCY RANGE	PEAK GAIN	VSWR	AZ.	EL.	F/B RATIO	INTER-PORT	XPI
698 to 803 MHz	3.2 dBi	< 1.8:1	360°	50°	-	-	-
803 to 890 MHz	3.3 dBi	< 1.8:1	360°	45°	-	-	-
890 to 960 MHz	3.7 dBi	< 1.8:1	360°	32°	-	-	-
1695 to 1880 MHz	4.8 dBi	< 2.6:1	360°	25°	-	-	-
1880 to 2200 MHz	0.4 dBi	< 2.6:1	360°	25°	-	-	-

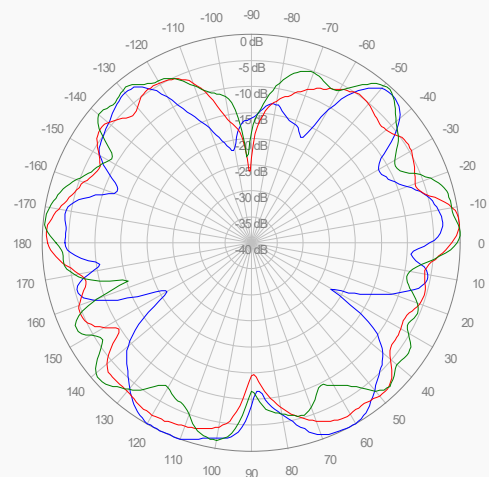
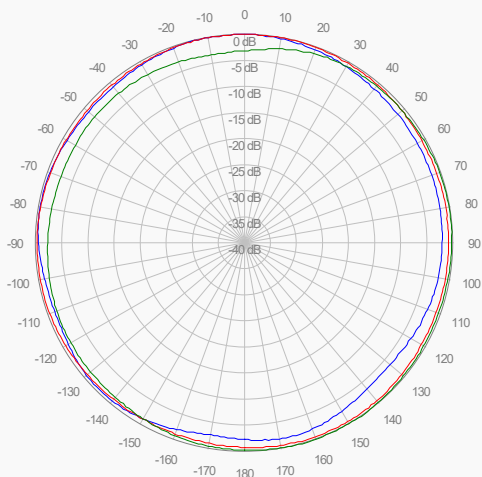
AZIMUTH POLAR PLOT

ELEVATION POLAR PLOT

698 to 960 MHz

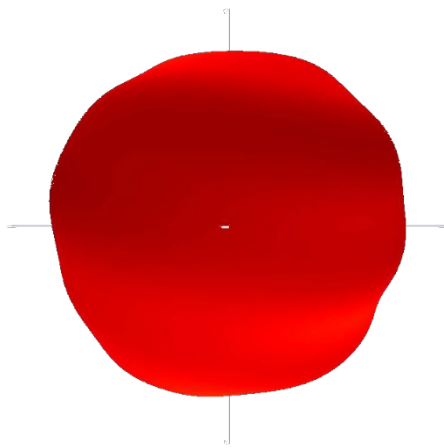


1695 to 2200 MHz

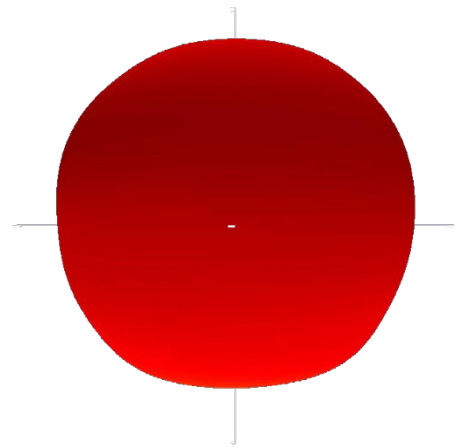


3D RADIATION PATTERNS

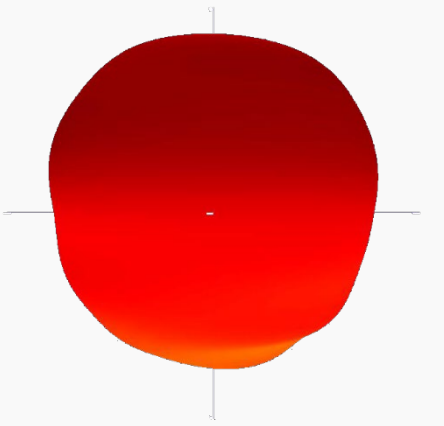
723 MHz



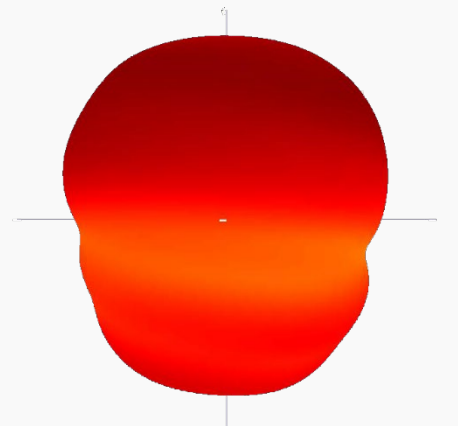
778 MHz



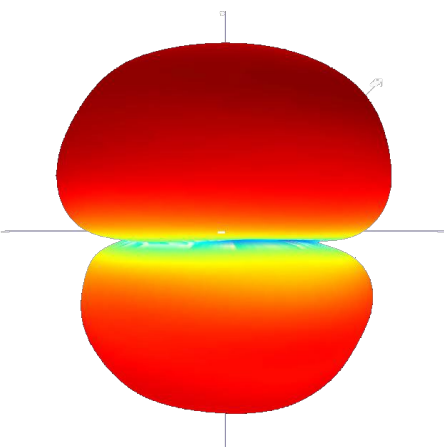
840 MHz



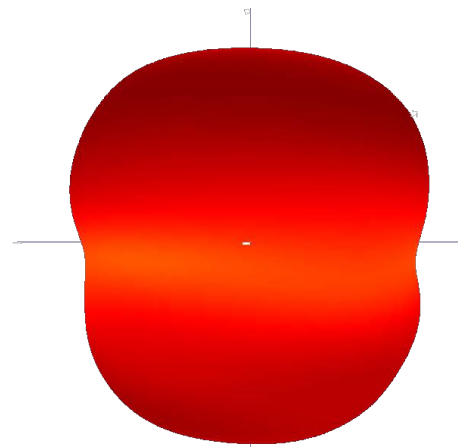
885 MHz



911 MHz

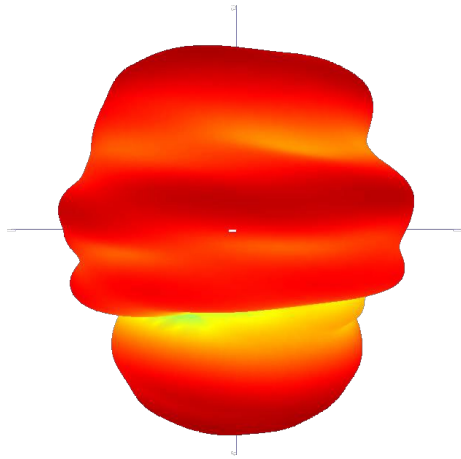


956 MHz

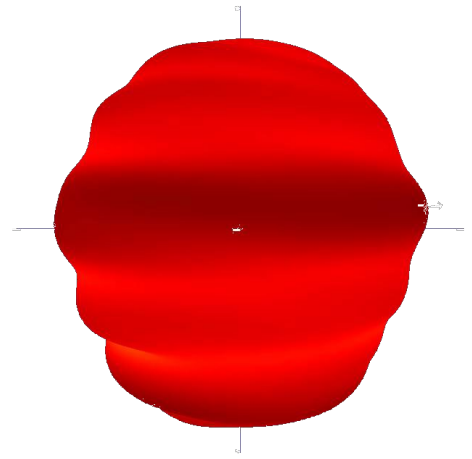


3D RADIATION PATTERNS

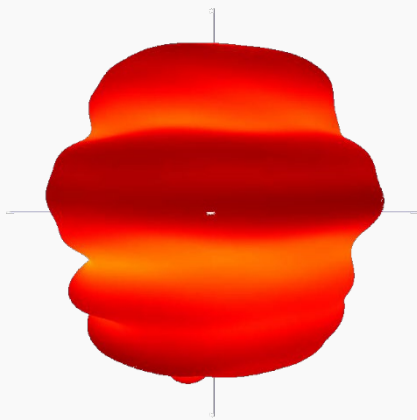
1710
MHz



1880
MHz



2170
MHz





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