

Powertec Low Band H-Pol Panel Antenna, 698 to 960 MHz

Model Number

HPA-6996-11.432

Order Code

ANT-PT-00015

Polarisation

SISO

Design Type

Panel / Sector

RF Category

Cellular



Operating on all low band 4G and 5G frequencies, Powertec's H-Pol Panel antenna is designed for rebroadcast of cellular repeater signal. The antenna is shaped to transmit a wide beam of coverage when connected as a Service Antenna to a repeater system like the Nextivity Cel-Fi GO. HPA-6996-11 is an industrial grade single port SISO antenna that has been horizontally polarised for maximum isolation. It covers 700, 850, and 900 MHz 4G-5G frequencies.

Panel antennas are ideal for covering outdoor areas with 4G-5G signal. This model's wide horizontal (azimuth) beam pattern provides a broad footprint, while providing a modest elevation beam allowing signal to be broadcast into mining / quarry pits or broadcast down from a hill to an area below.

The antenna remains compact and visually unobtrusive, allowing discrete installation. Its compactness also enables easy shielding from donor antennas, allowing repeaters to transmit at their maximum possible output power. It has an IP67 weatherproof 4.3-10 Female connector which is industry standard for building advanced telecommunications systems.

- 10 to 11 dBi gain across 4G-5G Low Band 698 to 960 MHz
- Ruggedised construction for tough conditions
- UV-stable PVC construction
- Low PIM 4.3-10 Female connector

Antenna Technical Data

PHYSICAL CHARACTERISTICS

Construction Material	PVC	RF Connections	1
Radome Colour	Light Grey	Environmental Rating	No Data
Dimensions	500 x 280 x 125 mm	Operating Temperature	-40 °C to 70 °C
Weight	3.0 kg	Mounting	Pole mount Ø 30-52 mm
Wind Rating	35 m/s		

ELECTRICAL SPECIFICATIONS

Input Impedance	50 Ω	Input Connector	4.3-10
Polarisation	Horizontal (Linear)	Input Connector Gender	Female
Max. Input Power	100 W	Cable Series	None
PIM, 3rd Order	-	Cable Length	None

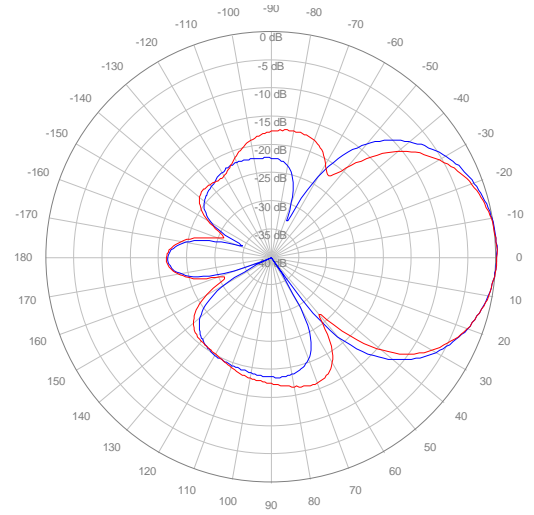
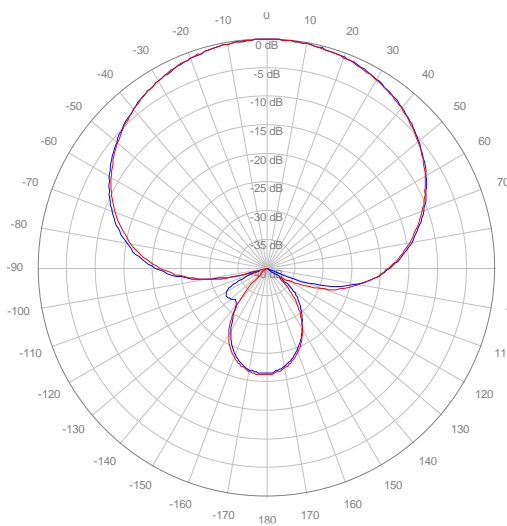
MECHANICAL SPECIFICATIONS

FREQUENCY RANGE	PEAK GAIN	VSWR	AZ.	EL.	F/B RATIO	INTER-PORT	XPI
698 to 778 MHz	10.2 dBi	< 1.4:1	73°	45°	> 21 dB	N/A	N/A
778 to 890 MHz	10.9 dBi	< 1.4:1	69°	38°	> 23 dB	N/A	N/A
890 to 960 MHz	10.9 dBi	< 1.4:1	69°	32°	> 20 dB	N/A	N/A

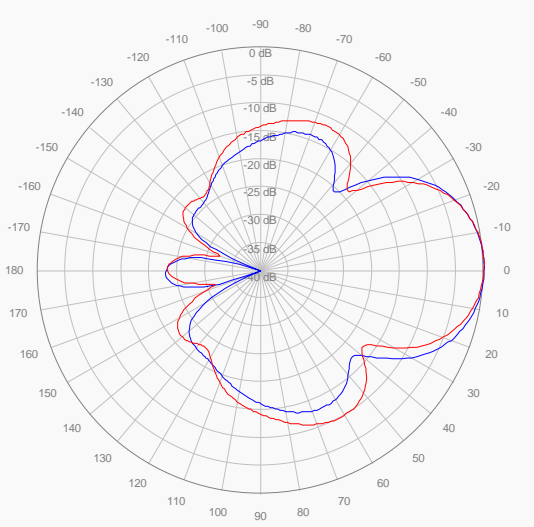
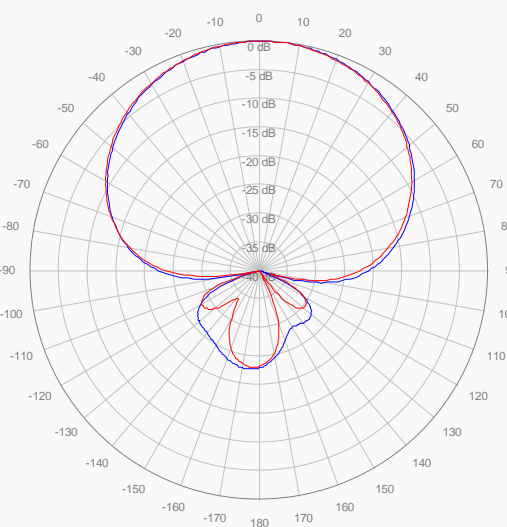
AZIMUTH POLAR PLOT

ELEVATION POLAR PLOT

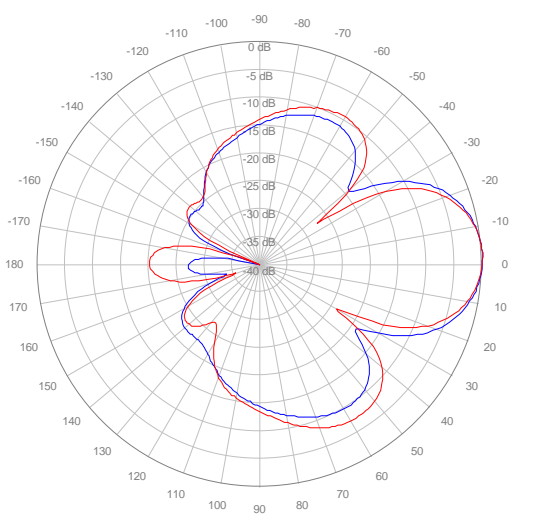
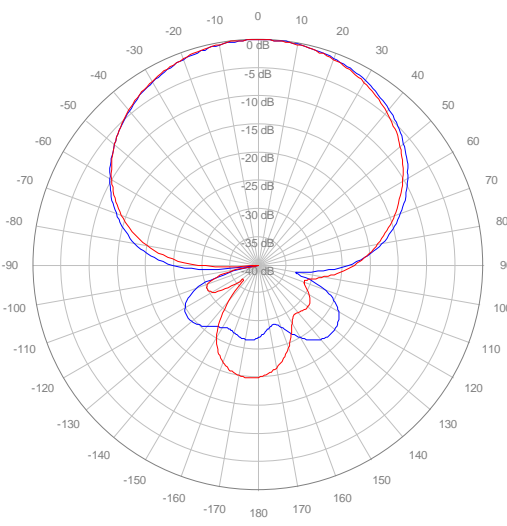
698 to 778
MHz



778 to 890
MHz

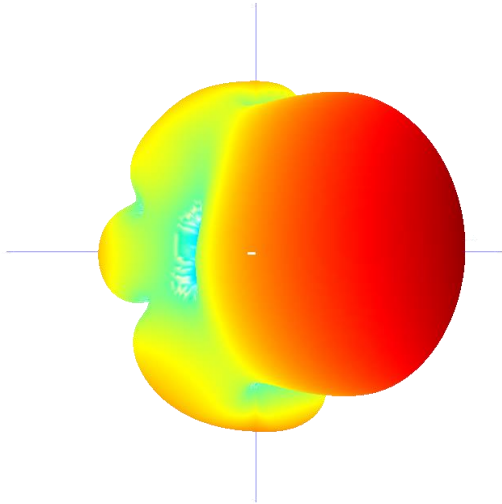


890 to 960
MHz

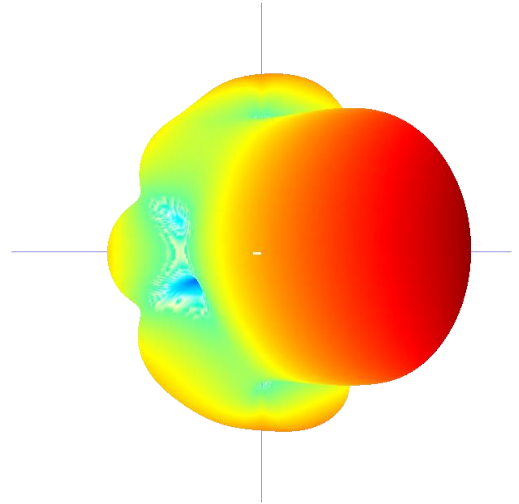


3D RADIATION PATTERNS

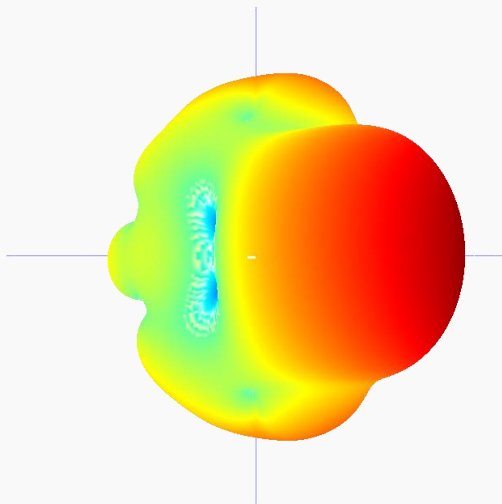
723 MHz



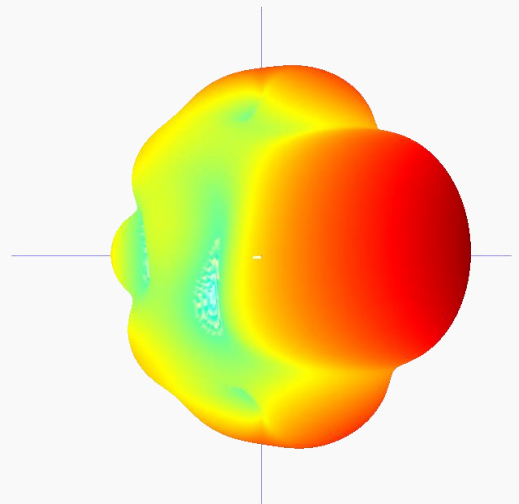
778 MHz



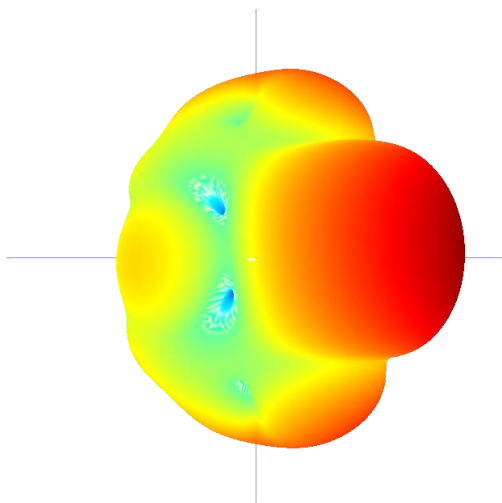
840 MHz



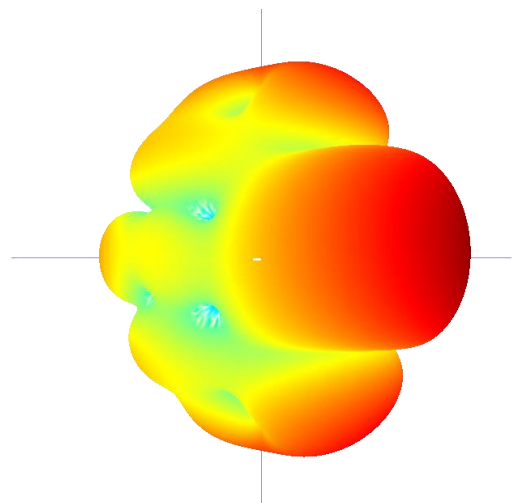
885 MHz



911 MHz



956 MHz



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