



VersAnte L000321-XX

Ground Plane Independent Multi-Port IoT Puck Antennas

The VersAnte L000321-XX antenna family offers combinations of 4G/5G cellular, Wi-Fi and GNSS coverage in an extremely compact form factor.

As a ground plane independent antenna, this antenna can operate on both metallic and non-metallic surfaces.

Combined with an IP67 and IP69K rating these antennas are applicable to a broad range of IoT applications. Suitable for both indoor and outdoor environments.

FEATURES AND BENEFITS

- 4G/5G Cellular, Wi-Fi and GNSS combinations from a single antenna
- Supports CAT-M, CAT-1 to CAT-4, and NB-IoT
- Suitable for mounting on a variety of surfaces
- Radome is paintable using commonly available spray paints (must not contain metal)
- Versatile for a number of applications
- Ground plane independent
- Low profile and compact 'puck' form factor means the antennas are less prone to vandalism

APPLICATIONS

- IoT endpoints
- Digital display and signage
- EV charging
- Smart lockers and storage
- Mobile and vehicular
- Ticketing systems
- Smart terminals
- Data monitoring

ELECTRICAL SPECIFICATION

	4G/5G Cellular					Wi-Fi	
Operating Frequency (MHz)	698-750	750-850	850-960	1690-2690	3300-3800	2400-2500	5150-5900
Free Space Performance							
VSWR - Typical	<3.9:1	<3.5:1	<4.0:1	<1.5:1	<1.5:1	<1.5:1	<1.5:1
Peak Gain - Max (dBi)	1.83			6		3	4
On Metallic Ground Plane Performance							
VSWR - Typical	<3.0:1	<3.3:1	<4.0:1	<1.5:1	<1.5:1	<1.5:1	<1.5:1
Peak Gain - Max (dBi)	2.86			6		6	5.5
Isolation (dB)	>-15			>-10	>-20	>-10	>-25
Input Max Power (W)	20					5	
Polarization	Linear						
Azimuth Beamwidth	360 °, Omnidirectional						

Measured with a 3.3 ft (1 m) cable, with and without a 2 ft (0.6m) diameter ground plane

ELECTRICAL SPECIFICATION - GNSS

Frequency (MHz)	1559-1606
Passive Antenna Gain (dBi)	3.0
LNA Gain @ Room Temperature (dB)	26 ± 3
Noise Figure @ Room Temperature (dB)	< 2.8
Max VSWR @ Room Temperature	< 2.0:1
Polarization	RHCP
Nominal Impedance (ohm)	50
Operating Supply Voltage (Vdc)	2.5-7.0
Current Consumption, Max @ room temp. (mA)	11.5 @ 3.0V
Out-of-band Signal Rejection, Min @ room temp. (dBc)	80 @ 1 – 1525 MHz 80 @ 1428 – 2700 MHz 70 @ 4900 – 5800 MHz

MECHANICAL SPECIFICATION

Dimensions - height x diameter - mm (in.)	26 x Ø90.2 (1.02 x 3.55)
Weight - g (oz.)	175.5 (6.19)
Mounting	M16 Stud
Radome	ASA (Black)
Cable	RG174 (3.3 feet / 1m)

ENVIRONMENTAL SPECIFICATION

Operating Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)
Storage Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)
Ingress Protection (IP Rating)	IP67, IP69K
Material Substance Compliance	RoHS Compliant CE & UKCA Compliant

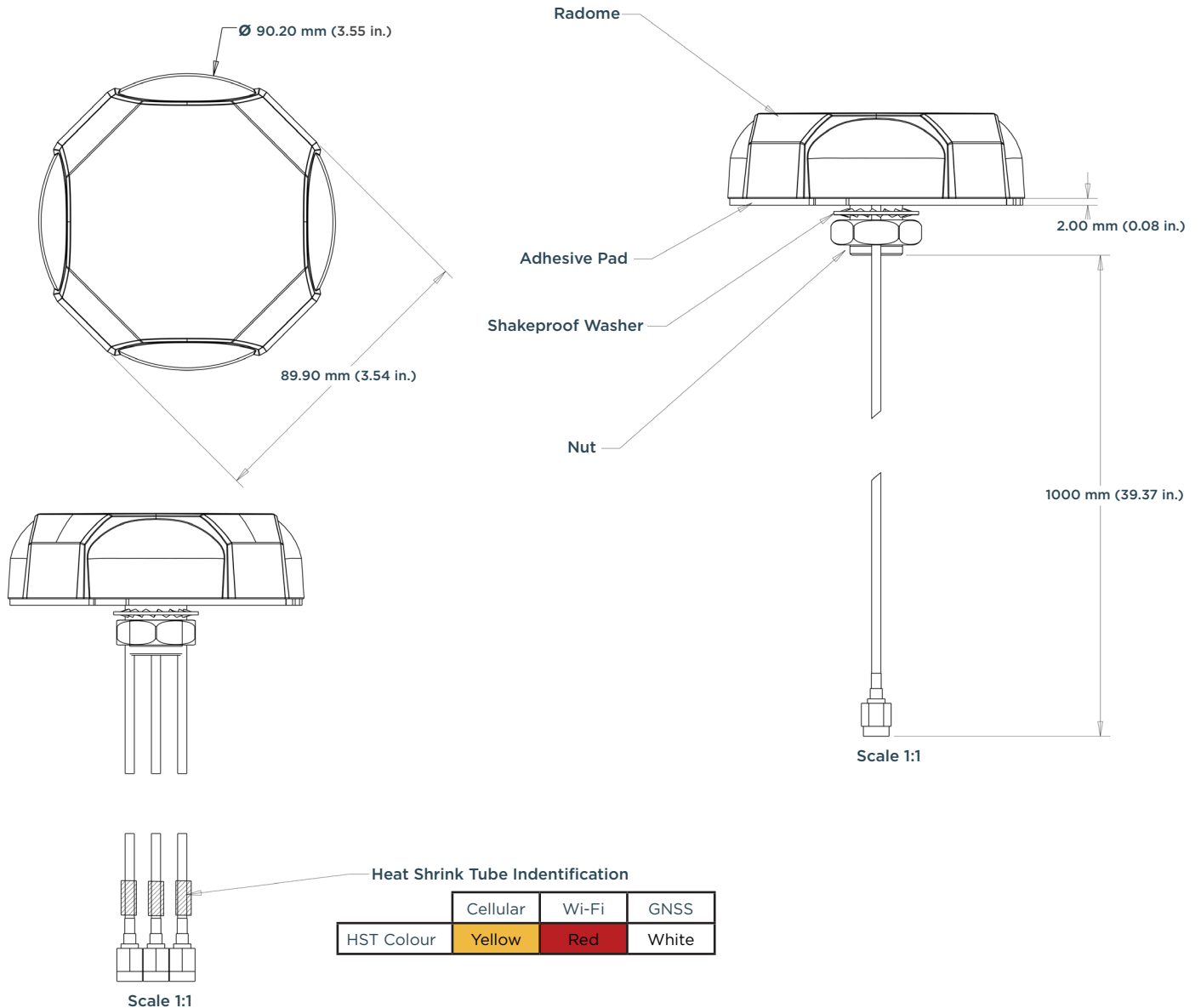
CONFIGURATIONS

PART NUMBER	PORT COUNT	FREQUENCY/PORT COVERAGE	CONNECTOR
L000321-01	3	4G/5G Cellular x 1 Wi-Fi x 1 GNSS x 1	4G/5G Cellular - SMA Wi-Fi - RP-SMA GNSS - SMA
L000321-03	2	4G/5G Cellular x 1 GNSS x 1	4G/5G Cellular - SMA GNSS - SMA

GLOBAL 4G/5G CELLULAR COVERAGE

FREQUENCY	RF BANDS
698-806 MHz	12, 13, 14, 17, 28, 29, 44, 67, 68, 85 N12, N14, N28, N29, N83
807-960 MHz	5, 6, 8, 18, 19, 20, 26, 27 N5, N8, N18, N20, N81, N82, N89, N91, N92, N93, N94
1690-2200 MHz	1, 2, 3, 4, 9, 10, 15, 16, 23, 25, 33, 34, 35, 36, 37, 39, 65, 66, 70 N34, N39, N65, N66, N70, N80, N84, N86, N95
2200-2700 MHz	7, 30, 38, 40, 41, 69 N30, N38, N40, N41, N90
3300-3800 MHz	22, 42, 43, 48 N48, N78

MECHANICAL DRAWINGS



RADIATION PATTERNS - 4G/5G CELLULAR

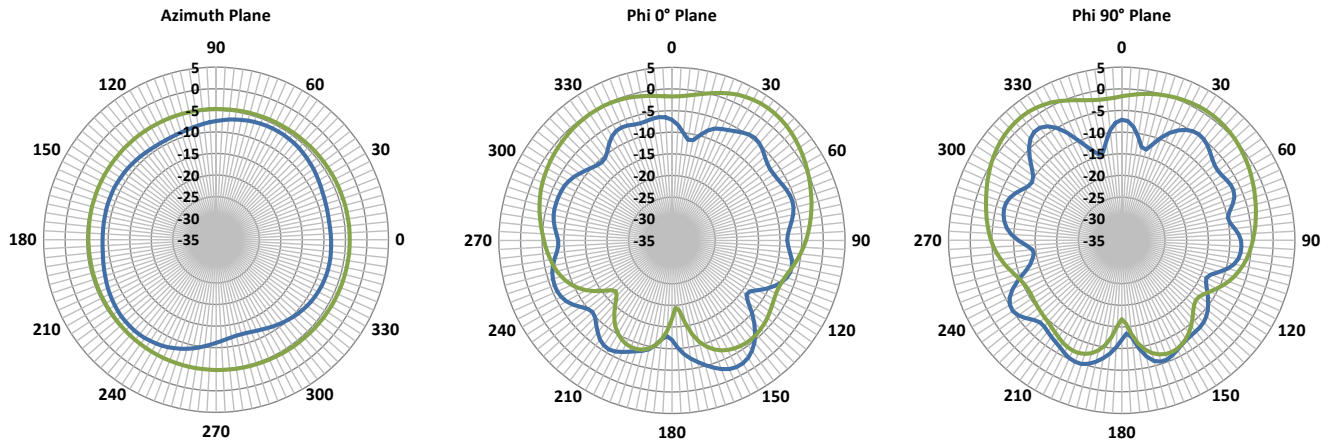
Key

Measured in Free Space

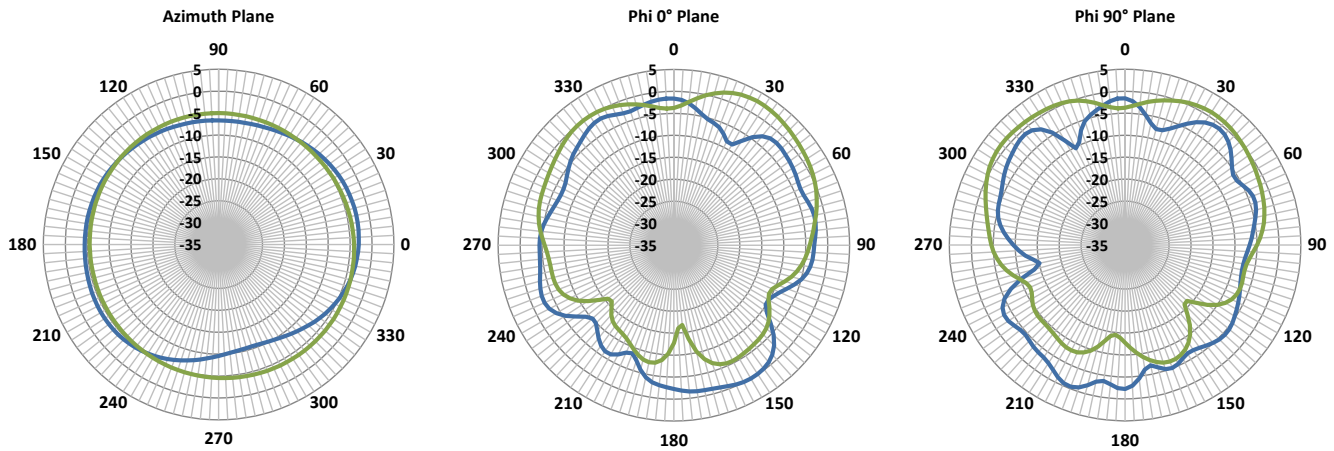
Measured with Ground Plane

Note - A label on the antenna base indicates the direction of 0° for ease of orientation and placement.

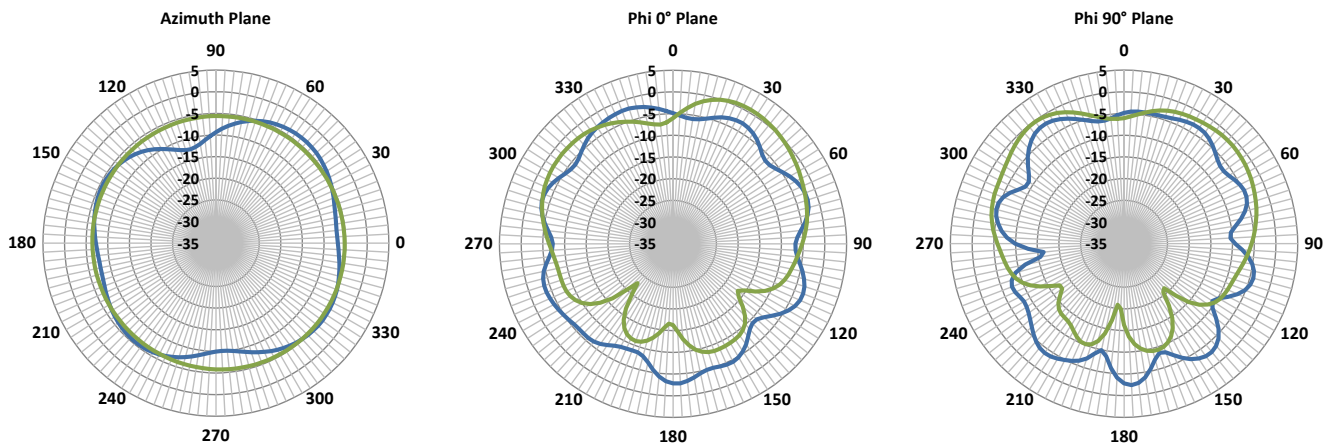
Radiation Patterns at 698 MHz



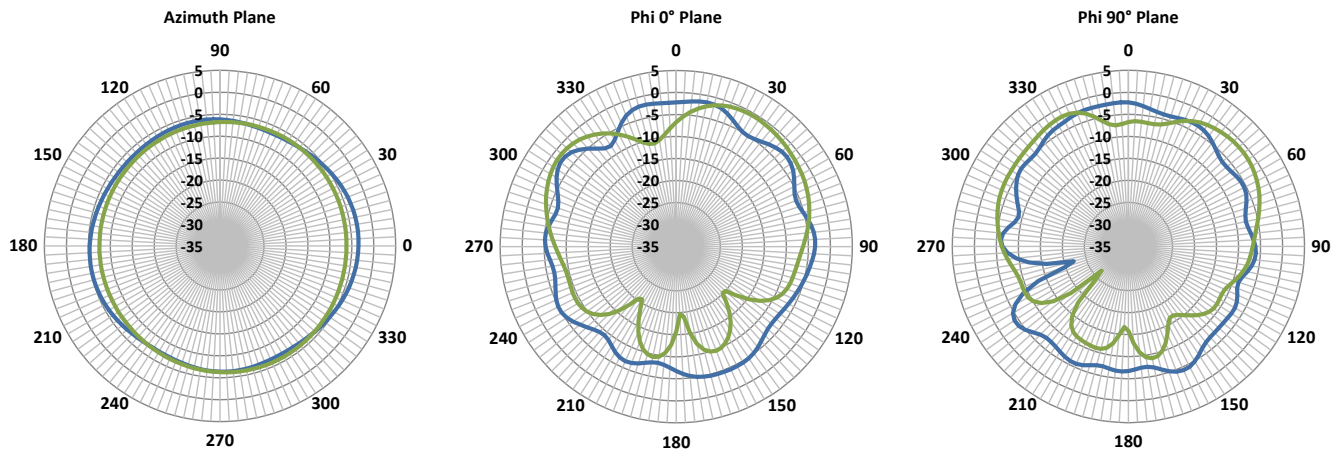
Radiation Patterns at 750 MHz



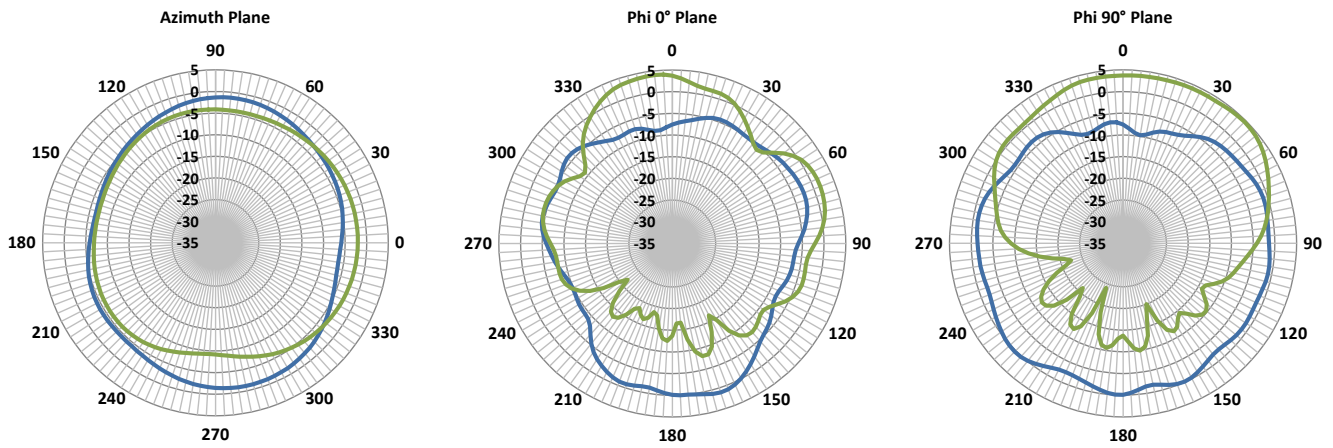
Radiation Pattern at 850 MHz



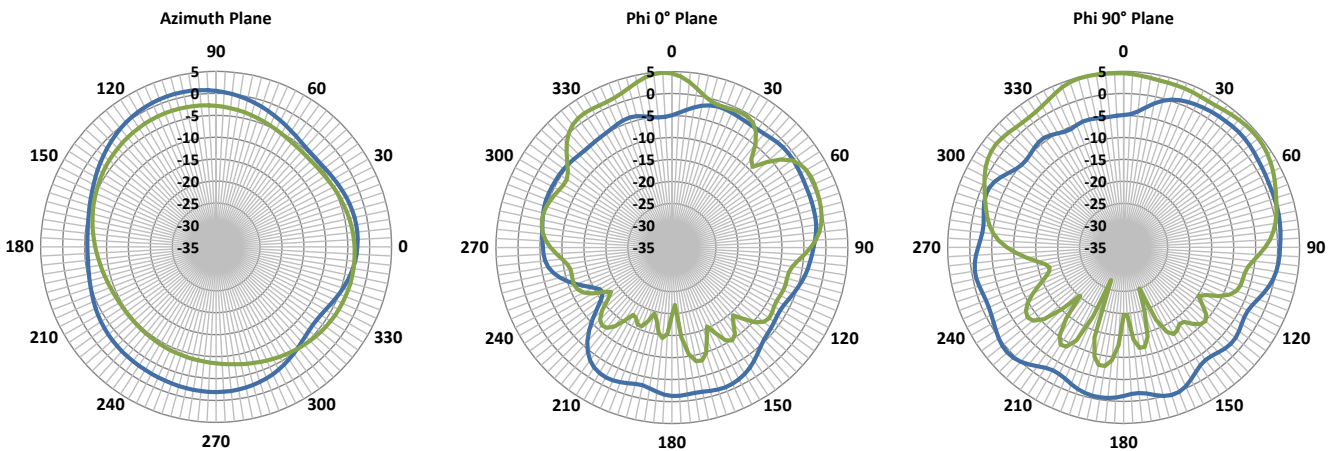
Radiation Pattern at 960 MHz



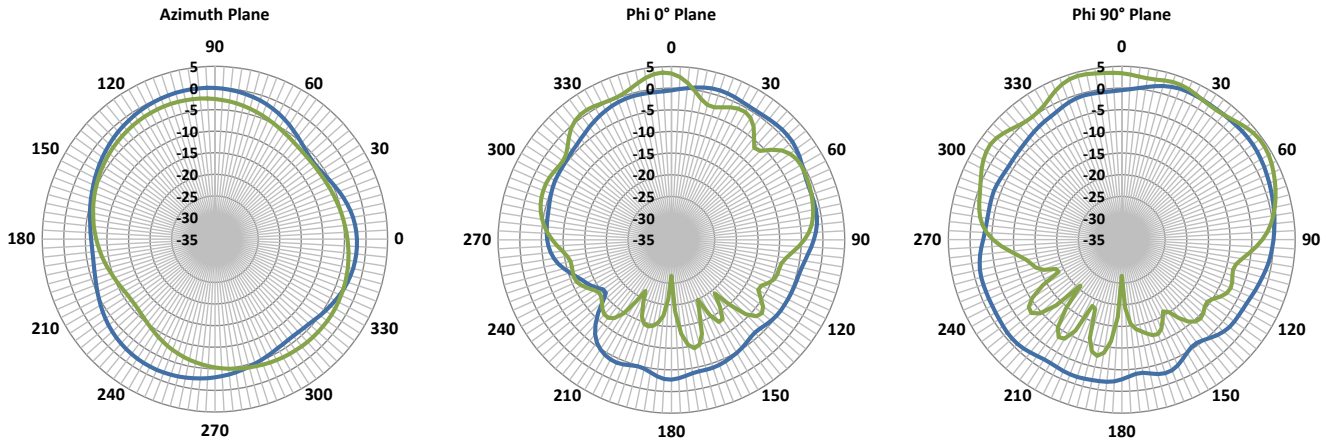
Radiation Pattern at 1690 MHz



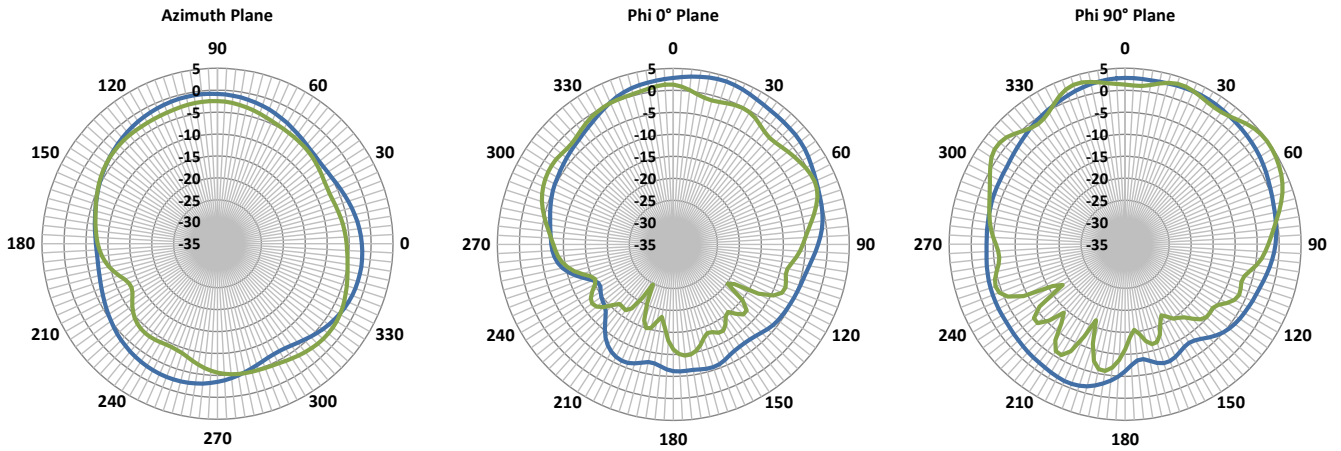
Radiation Pattern at 1800 MHz



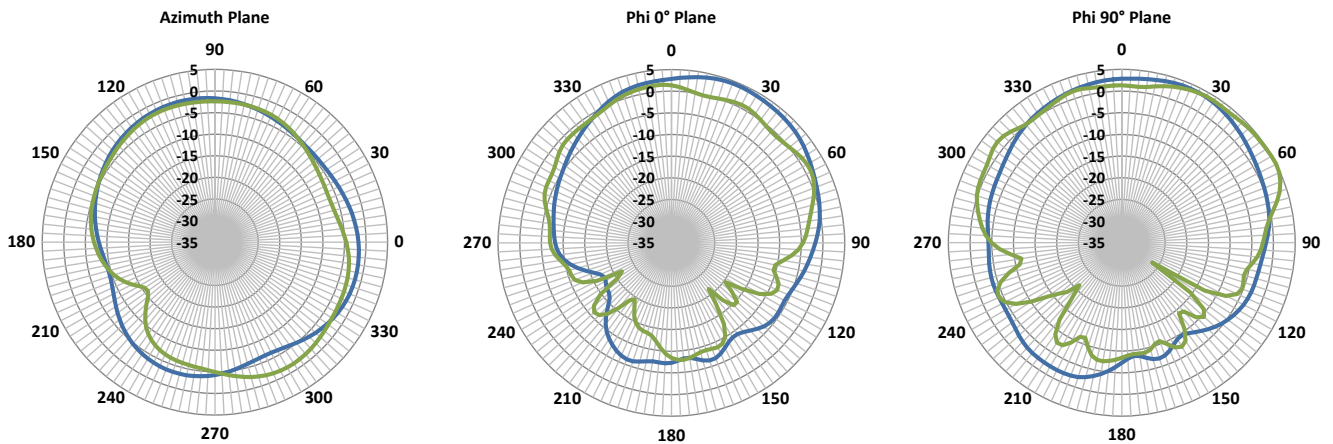
Radiation Pattern at 1900 MHz



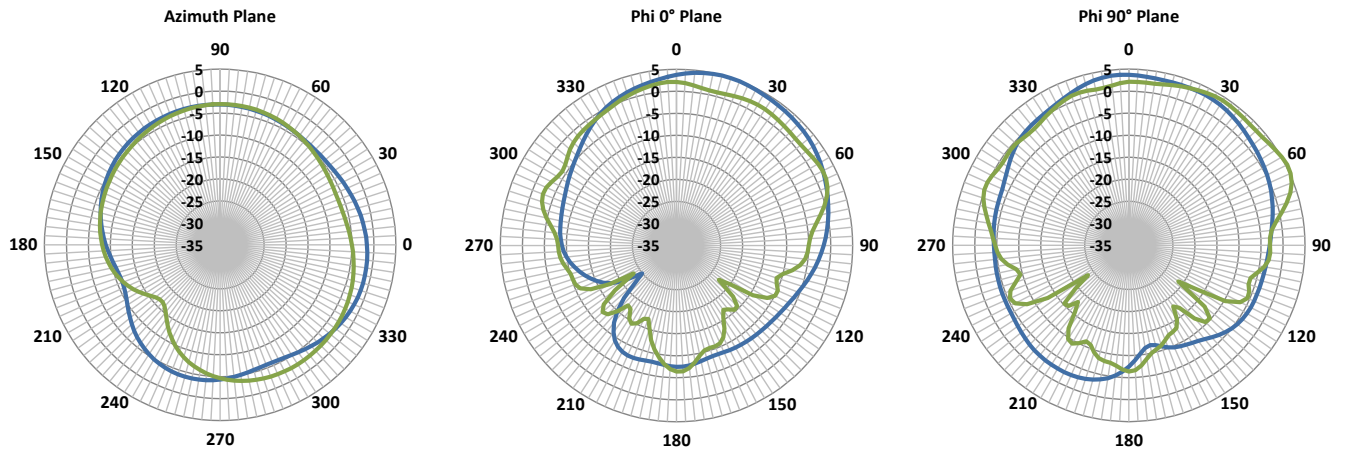
Radiation Pattern at 2100 MHz



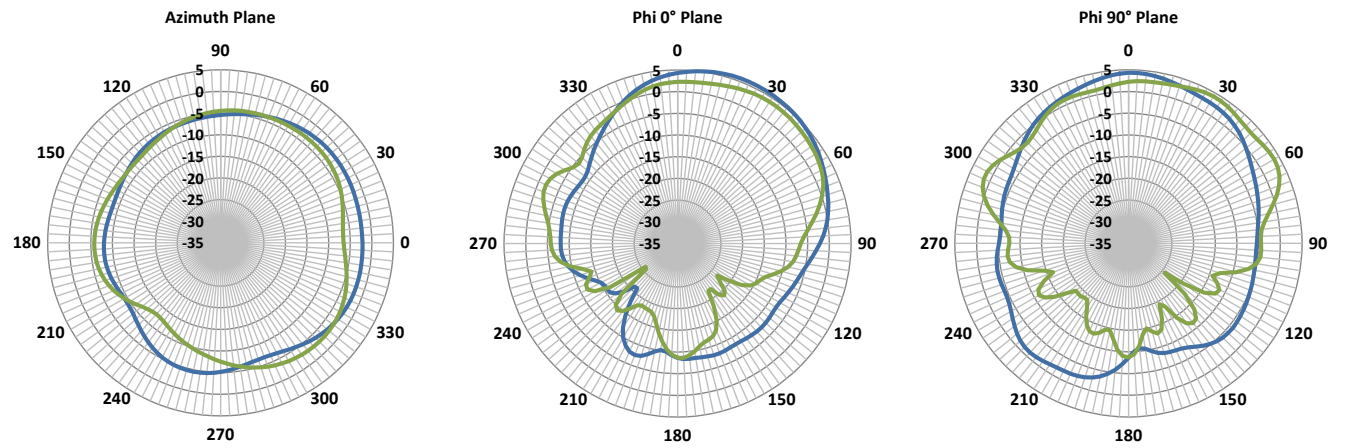
Radiation Pattern at 2200 MHz



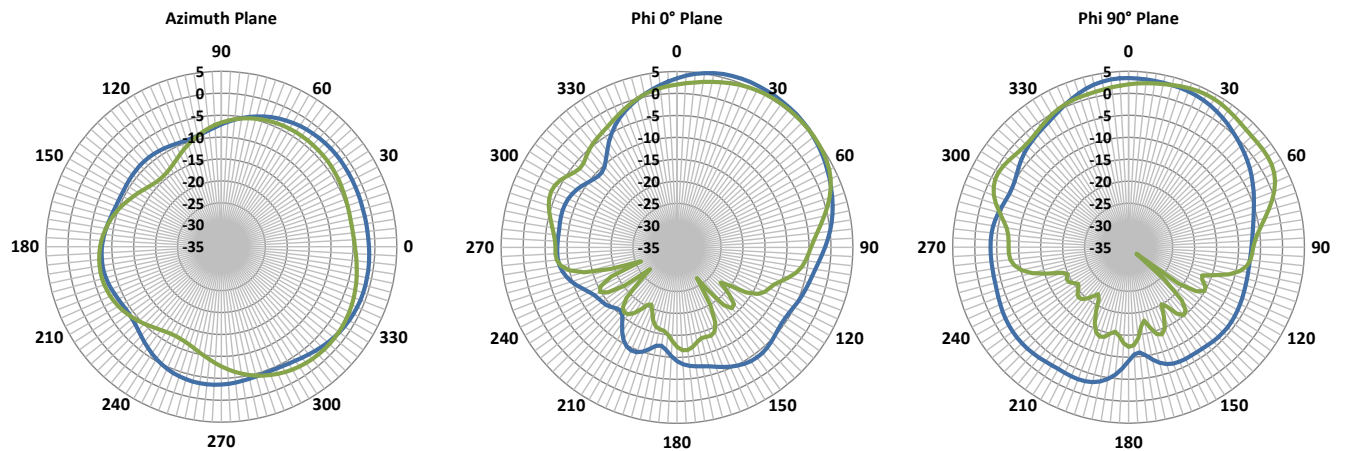
Radiation Pattern at 2300 MHz



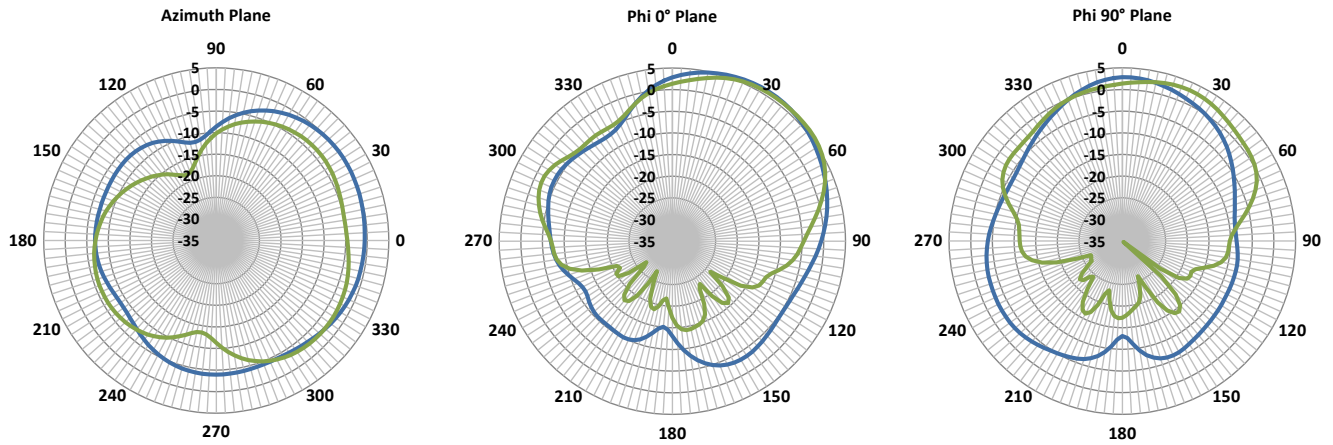
Radiation Pattern at 2500 MHz



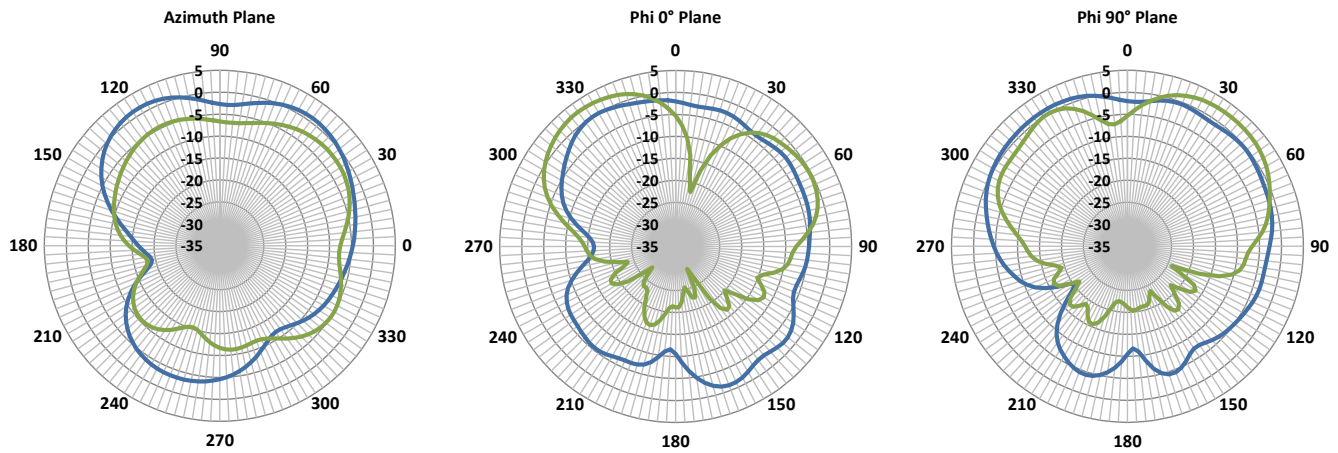
Radiation Pattern at 2600 MHz



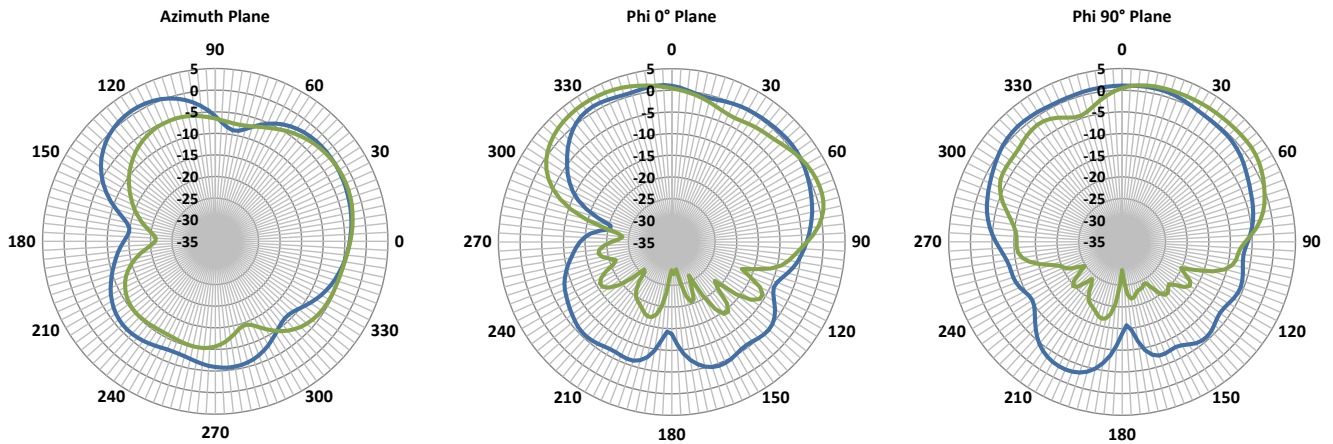
Radiation Pattern at 2690 MHz



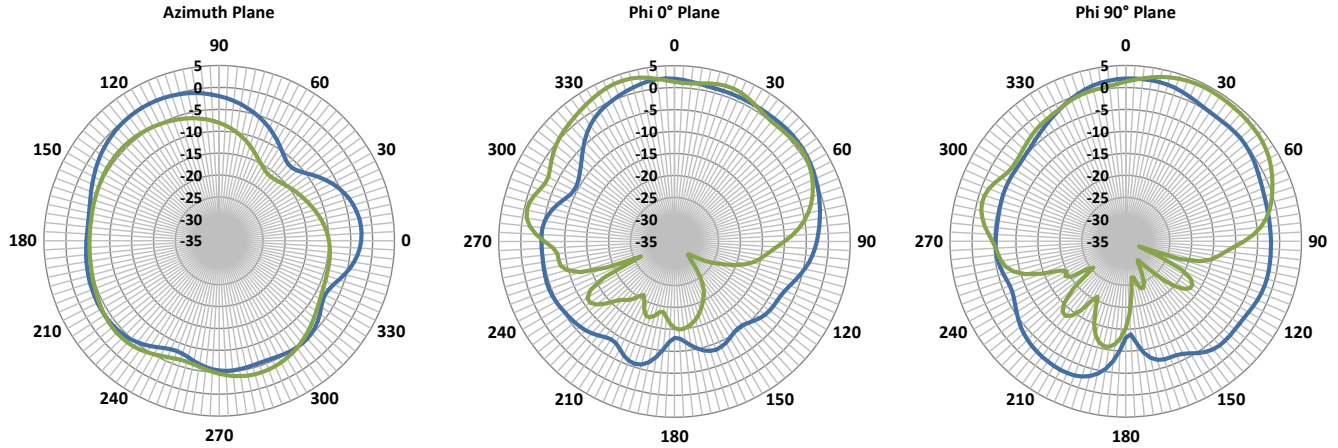
Radiation Pattern at 3300 MHz



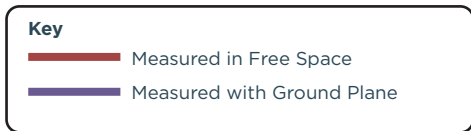
Radiation Pattern at 3500 MHz



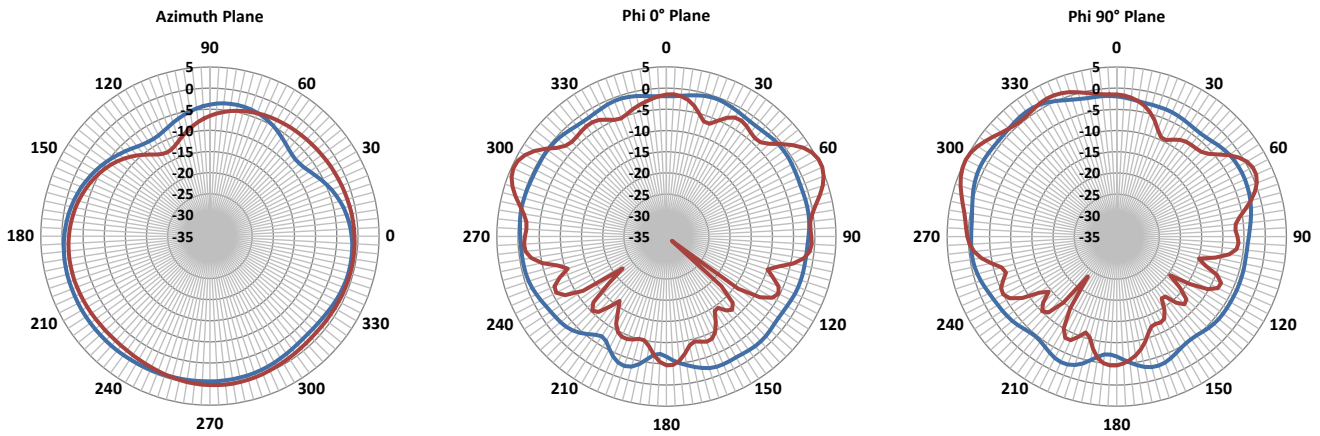
Radiation Pattern at 3800 MHz



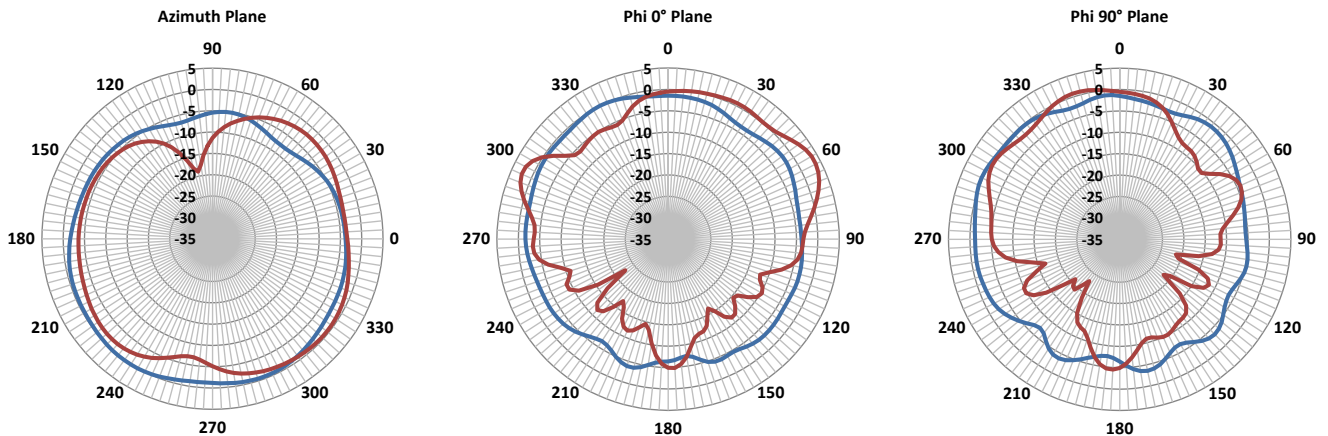
RADIATION PATTERNS - WI-FI



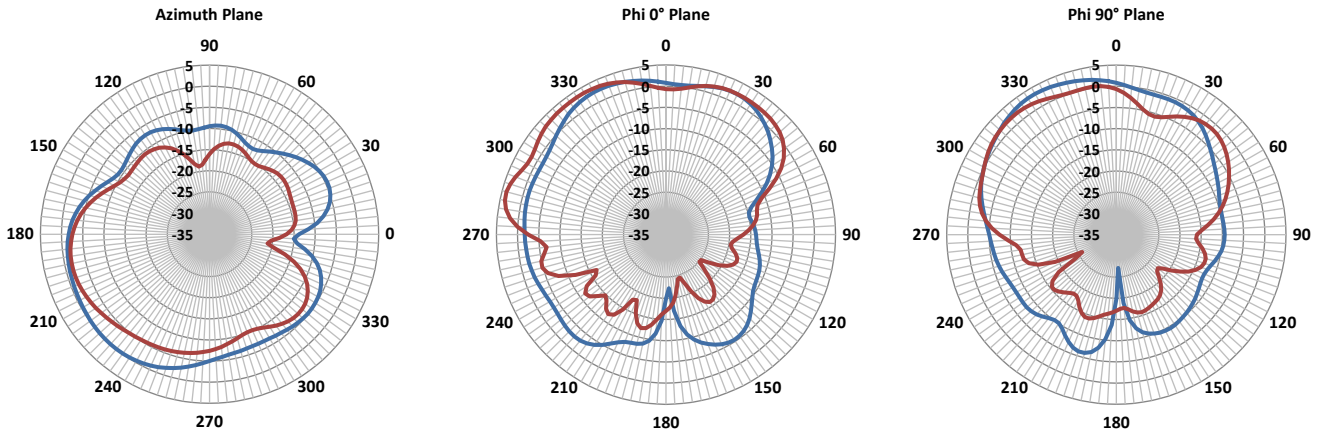
Radiation Pattern at 2400 MHz



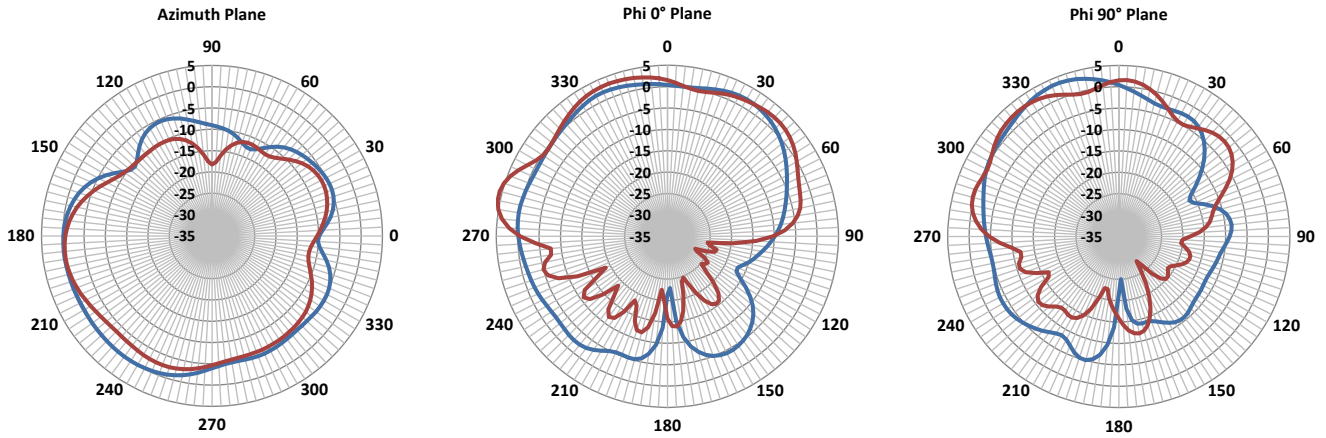
Radiation Pattern at 2480 MHz



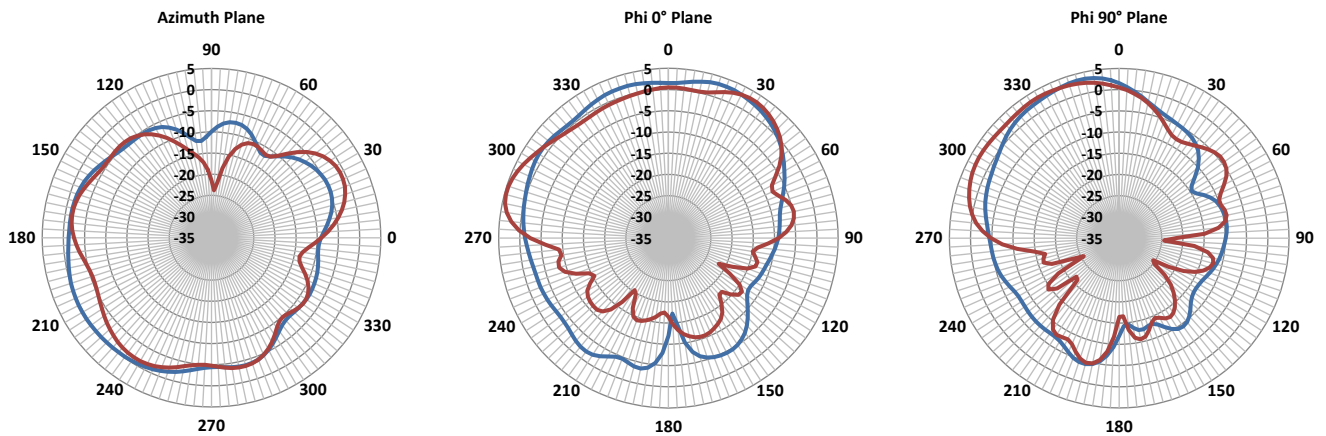
Radiation Pattern at 5150 MHz



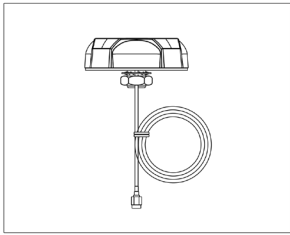
Radiation Pattern at 5450 MHz



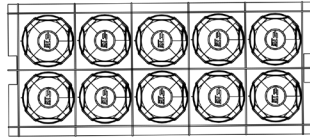
Radiation Pattern at 5850 MHz



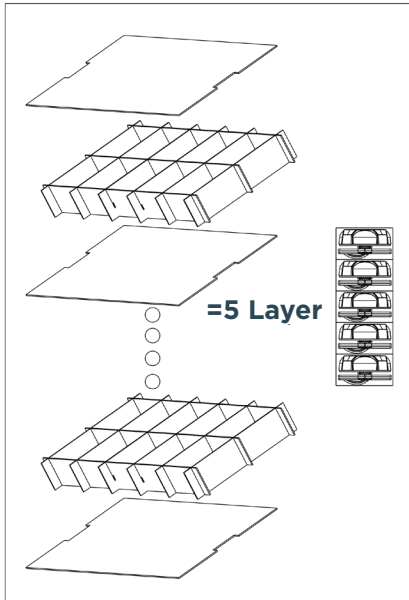
PACKING INFORMATION



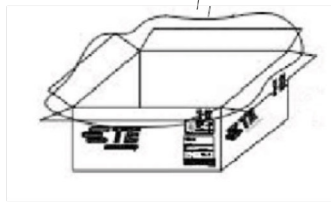
1 PCS/Bubble Pack



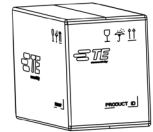
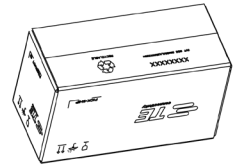
5 PCS x 2
Grid - 10PCS/layer



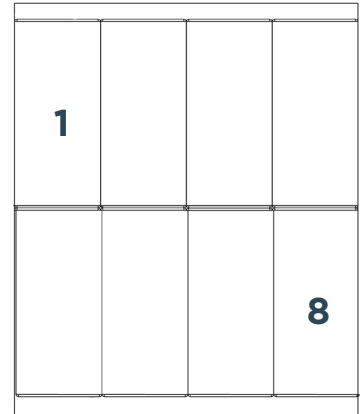
=5 Layer



10 PCS/layer x 5
=50 PCS/Carton



Carton = 50 PCS



Pallet - 1200x1000mm
Carton x 8 PCS - 4 Layers
Total - 1600 PCS Antenna

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