



## OC69421

### 4G/5G/CBRS Direct Mount Omnidirectional Antenna 698-960 MHz/1710-2700/3300-4200 MHz

The OC69421 antenna is an expanded bandwidth omnidirectional antenna covering the global cellular bands including many mid-band sub-6GHz 5G and CBRS frequencies. It can be used in both indoor and outdoor applications. It comes complete with mast mounting hardware and includes a UV stable radome enclosure that provides years of use without degradation to either mechanical properties or aesthetics.

### FEATURES AND BENEFITS

- Applicable for 4G, 5G and CBRS solutions
- Rugged Outdoor Construction
- Excellent Omni-Directional Patterns
- Wideband Operation 698 - 4200 MHz
- Weatherproof UV stable radome
- Mast mounting hardware included

#### ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	698-960	1710-1990	1920-2170	2100-2500	2500-2690	3300-4200
VSWR	<2.5:1	<2.0:1				<2.5:1
Gain (dBi)	1.5	3.5				5.0
Efficiency (%)	76	87				81
Nominal Impedance (Ohms)	50					
Max Power - Ambient 25°C (W)	20					
Polarization	Linear, Vertical					
Vertical Plane 3 dB Beamwidth	81°	75° (1700-2200)			100°	
Horizontal Plane 3 dB Beamwidth	360°, Omnidirectional					

#### MECHANICAL SPECIFICATIONS

Dimensions - diameter x height - mm (inches)	24.5 x 248 (1 x 9.8)
Weight - kg (lbs.)	.156 (.343)
Mount Style	Mast/pole mount
Radome Material	Polycarbonate, UV, White

#### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature - °C (°F)	-40 to +70 (-40 to +158)
Storage Temperature - °C (°F)	-40 to +85 (-40 to +185)
Material Substance Compliance	RoHS
Relative Humidity - %	10-95

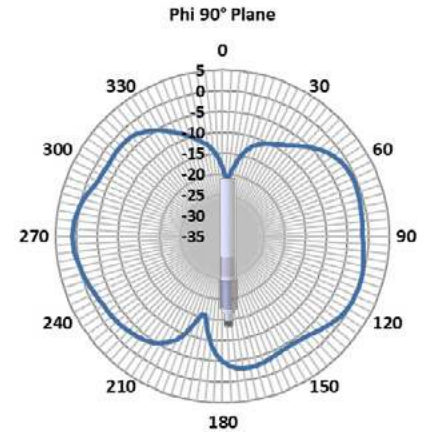
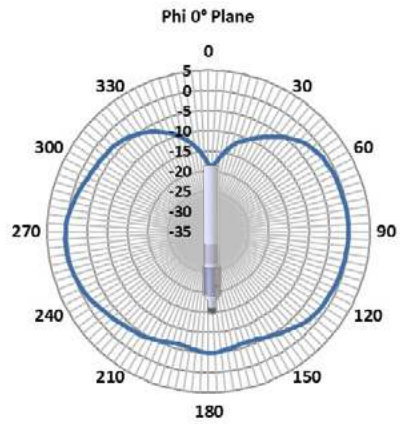
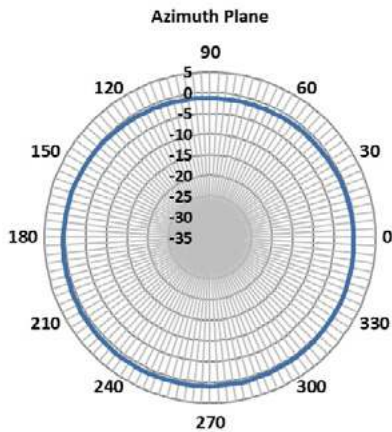
## CONFIGURATION

MODEL NUMBER	CONNECTOR
OC69271-FNM	Type N male
OC69271-FNF	Type N female

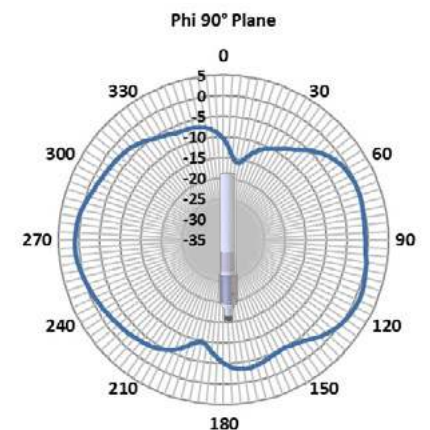
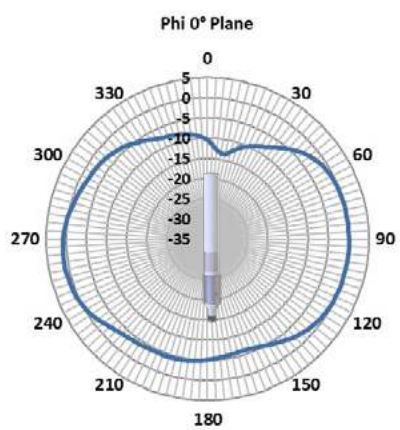
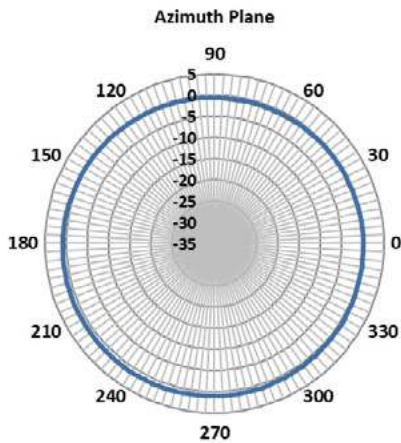
PACKAGED DIMENSIONS	MASTER CARTON	AIR PALLET	OCEAN PALLET
Number of Antennas	20	480	600
Height - cm (in.)	30.0 (11.8)	135 (53.2)	165 (65.0)
Length - cm (in.)	52.5 (20.7)	105 (41.3)	105 (41.3)
Width - cm (in.)	26.5 (10.4)	79.5 (31.3)	79.5 (31.3)
Shipping Weight - kg (lbs.)	7.36 (16.2)	190 (419)	230 (507)

## RADIATION PATTERNS

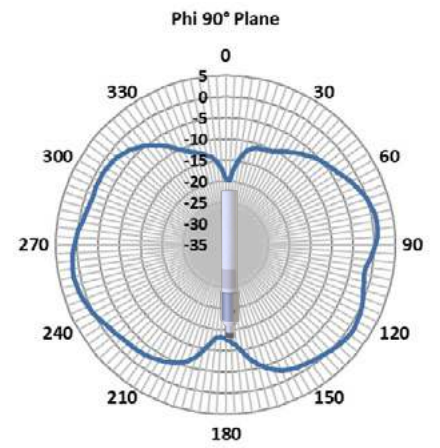
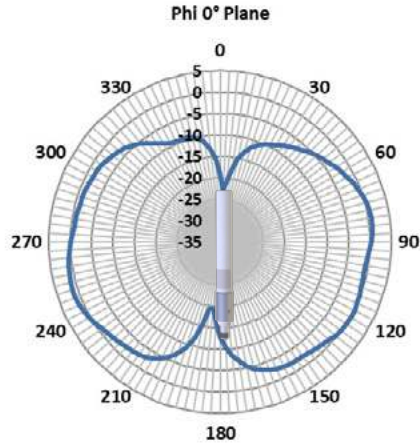
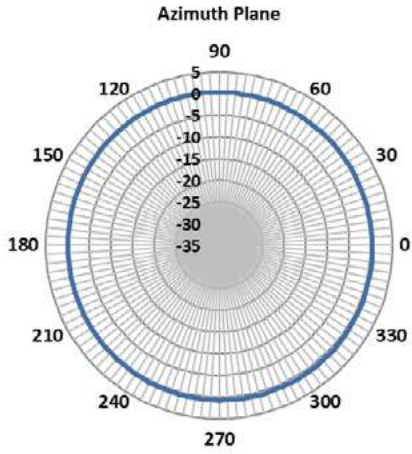
### 698 MHZ



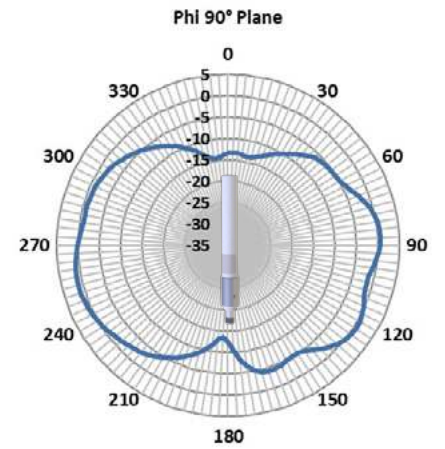
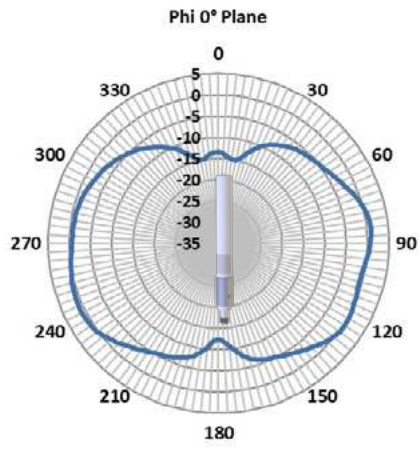
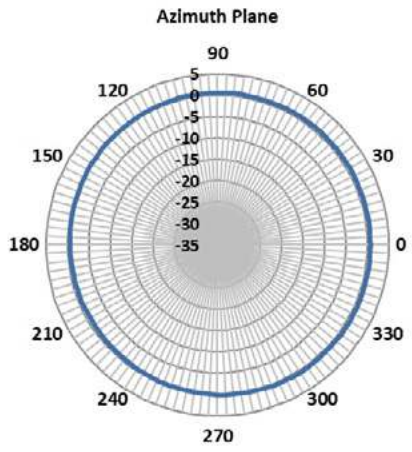
### 725 MHZ



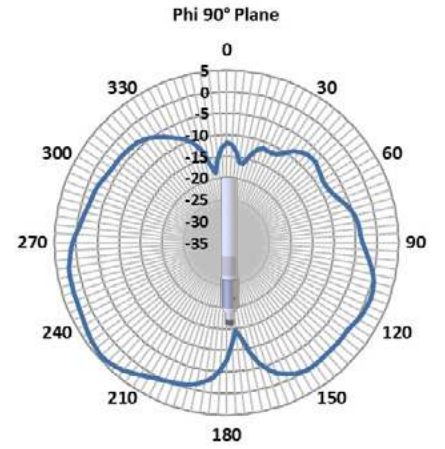
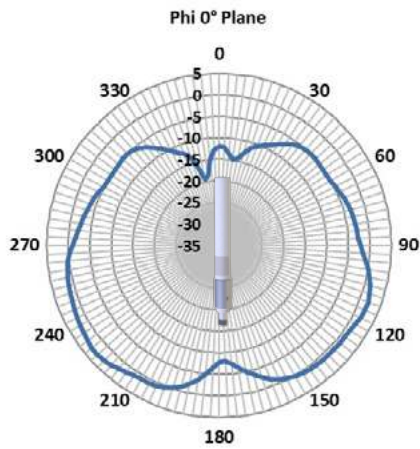
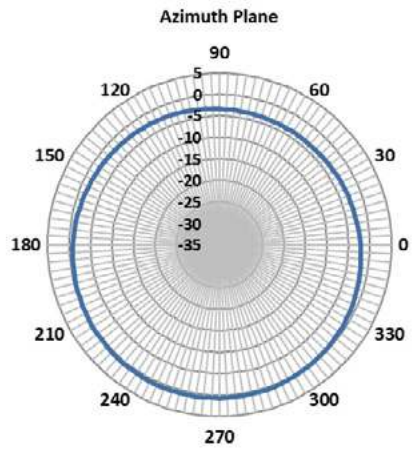
## 850 MHZ



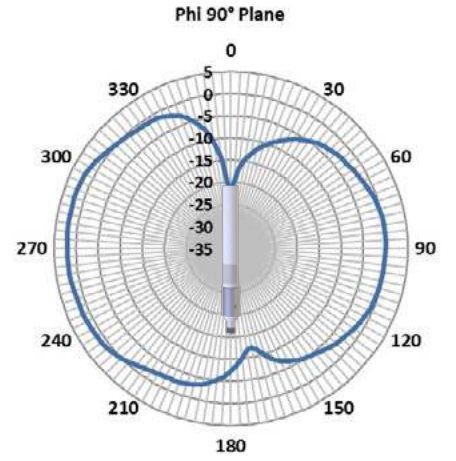
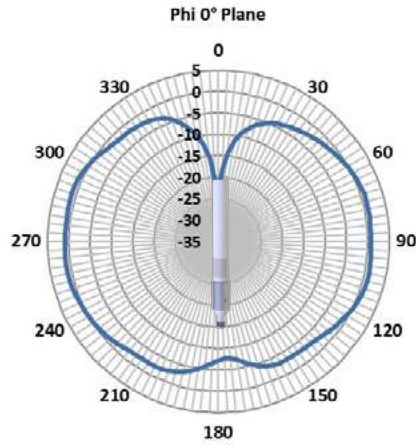
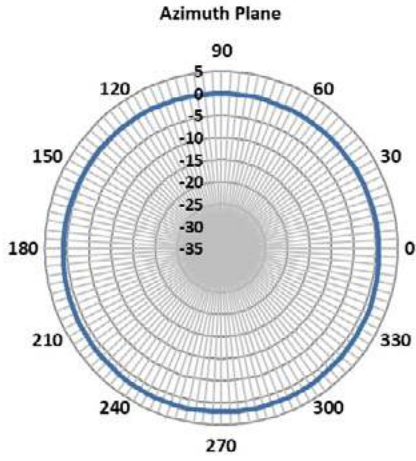
## 925 MHZ



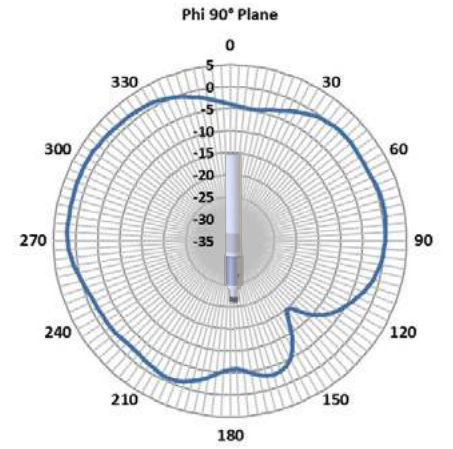
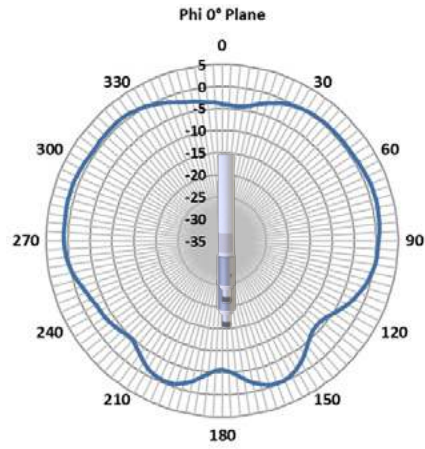
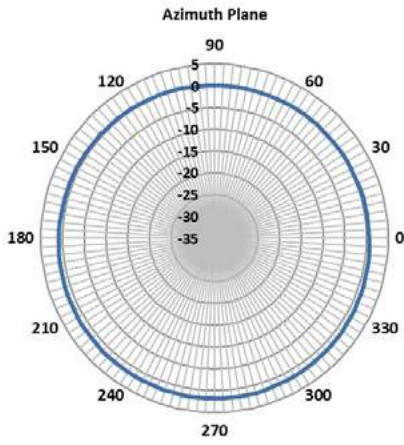
## 1730 MHZ



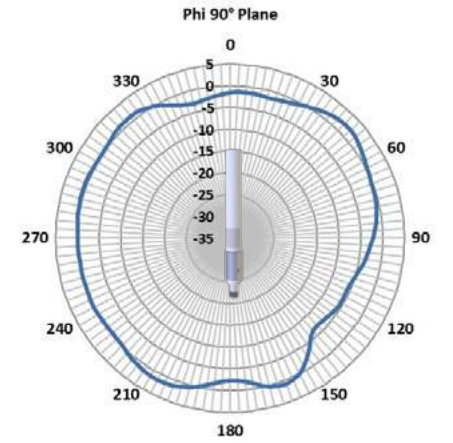
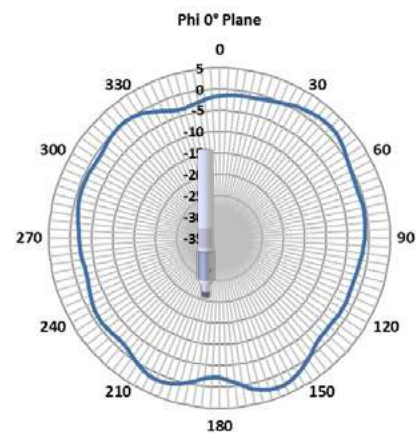
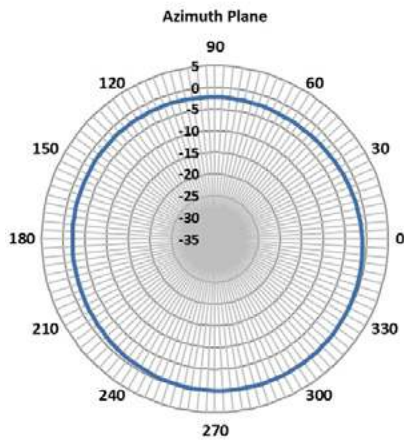
## 1930 MHZ



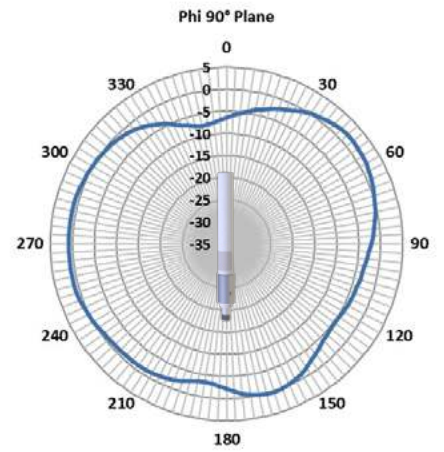
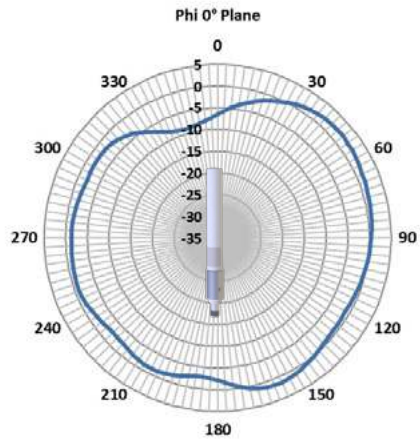
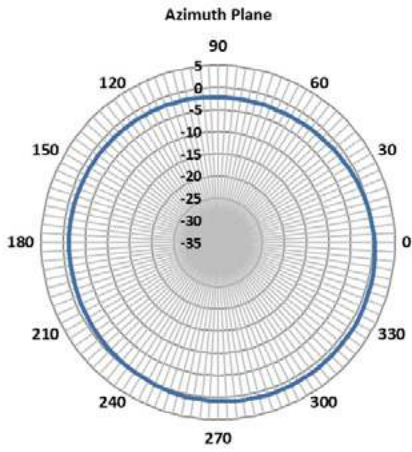
## 2140 MHZ



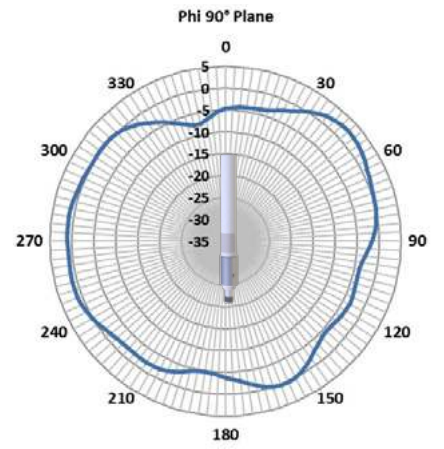
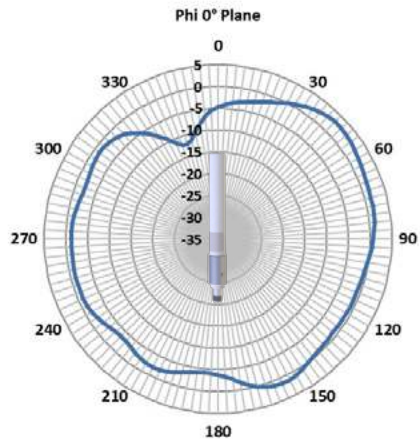
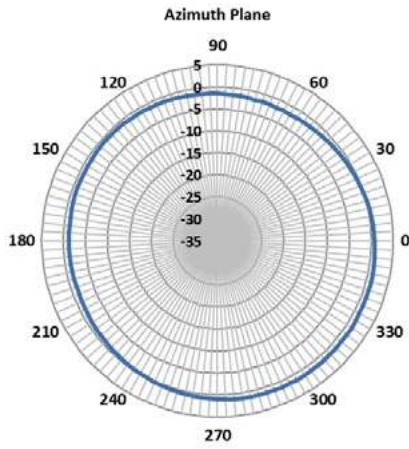
## 2300 MHZ



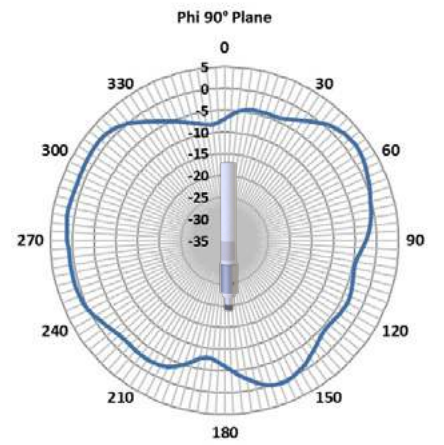
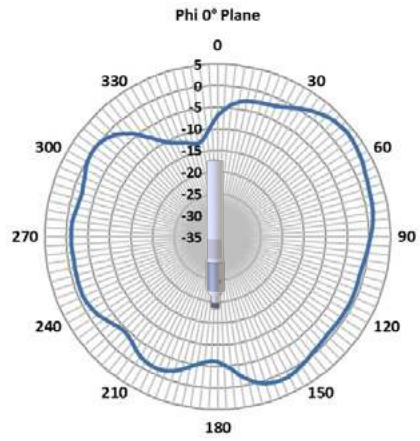
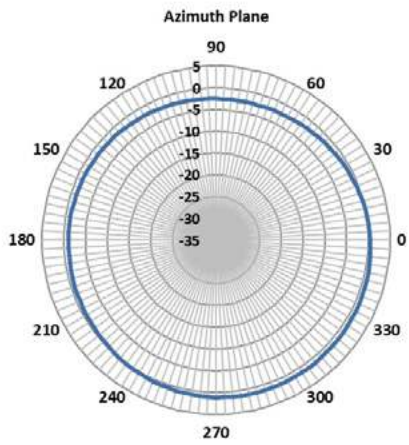
## 2457 MHZ



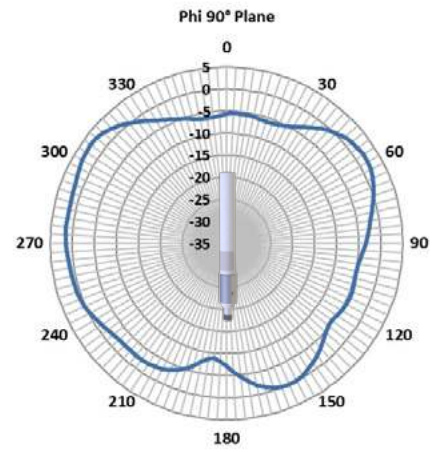
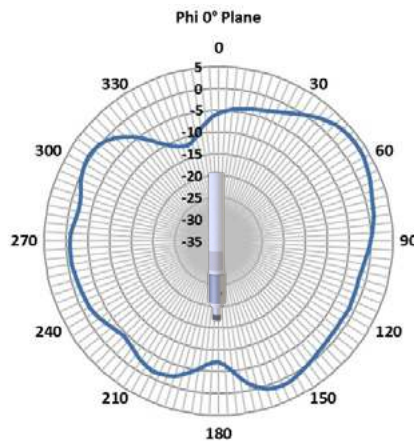
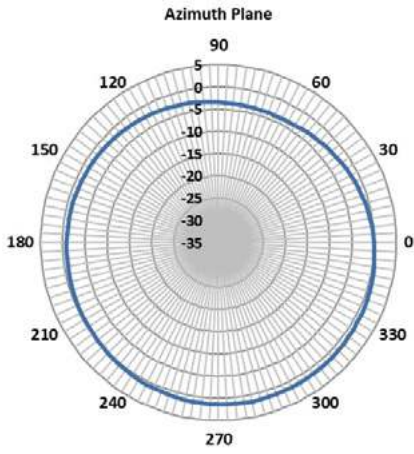
## 2510 MHZ



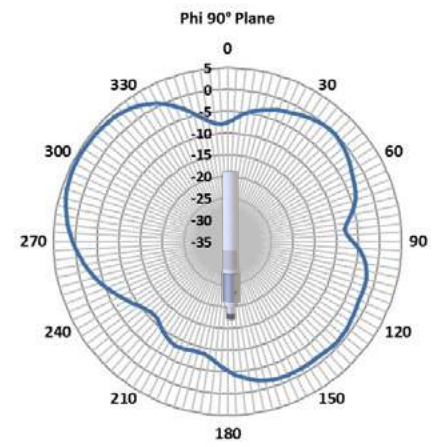
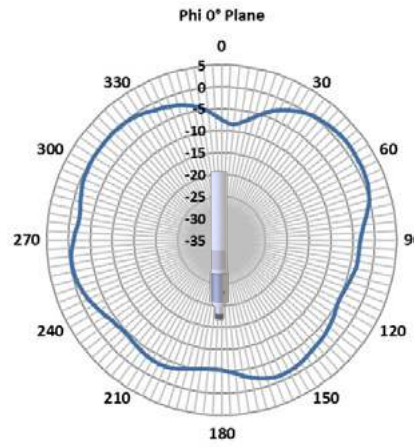
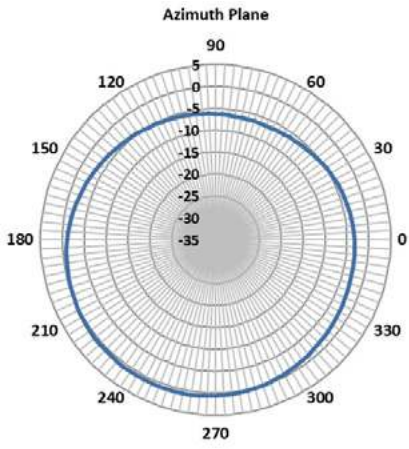
## 2600 MHZ



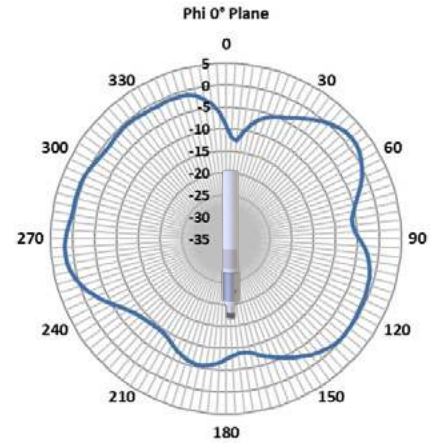
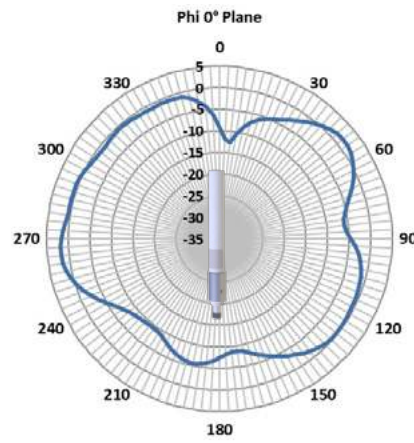
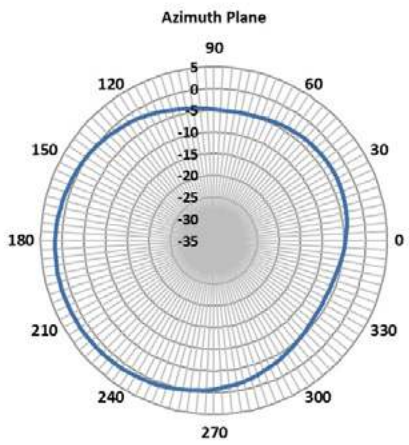
## 2700 MHZ



## 3400 MHZ



## 3800 MHZ



---

## TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

## te.com

TE, and TE connectivity (logo) are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

TE Connectivity warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations TE Connectivity will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the TE Connectivity product is installed. Useful lifetime of the original end product may vary but is not warranted to exceed one (1) year from the original date of the end product purchase.

©2022 TE Connectivity. All Rights Reserved.

08/22 Original