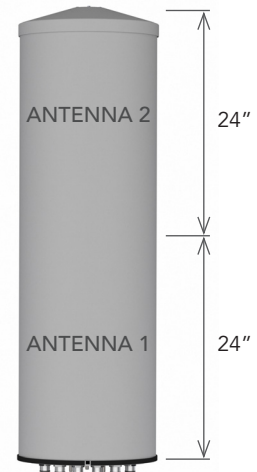










## 4U4MT360X12F<sub>xy</sub>s0

### Features

- 4G/5G Pseudo Omni configuration with 16 connectors
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- 5 GHz U-NII FCC compliant
- Available for order with a grey, brown or black radome



PRODUCT OVERVIEW	Frequency Range (MHz)	MID BAND				CBRS BAND		LAA BAND	
		(4x) 1695-2700				(2x) 3550-3700		(2x) 5150-5925	
	Array	 Y1	 Y2	 Y3	 Y4	 P1	 P2	 O1	 O2
	Connector	8 PORTS				4 PORTS		4 PORTS	
	Polarization	XPOL				XPOL		XPOL	
	Azimuth Beamwidth (avg)	360°				360°		360°	
	Electrical Downtilt	2°, 4°, 6°				0°		0°	
	Configuration	OMNI CONFIGURATION							
	Connector Type	(16x) 4.3-10 FEMALE CONNECTORS							
	Dimensions	1221 x Ø371 mm (48.1 x Ø14.6 in)							
	Radome Color Options	GREY, BROWN or BLACK							

### ELECTRICAL SPECIFICATIONS Mid Band

■ Y1 ■ Y2 ■ Y3 ■ Y4

Frequency Range		MHz	(4x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(4x) ±45°			
Gain	BASTA	dBi	11.6 ± 0.8	11.3 ± 0.8	11.7 ± 1.0	11.9 ± 1.2
	MAX	dBi	12.4	12.1	12.7	13.1
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	11.8° ± 9.8°	11.1° ± 9.1°	11.1° ± 9.6°	9.9° ± 10.7°
Electrical Downtilt		degrees	(x) 2°, 4°, 6°			
Impedance		Ohms	50			
VSWR		---	≤ 1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153			
Upper Sidelobe Suppression		dB	> 13			
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28			
Input Power		Watts	300W			

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## 4U4MT360X12F<sub>xy</sub>s0

### ELECTRICAL SPECIFICATIONS CBRS Band

■ P1 ■ P2

Frequency Range		MHz	(2x) 3550-3700
Polarization		---	(2x) ±45°
Gain	BASTA	dBi	4.9 ± 0.3
	MAX	dBi	5.2
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	36.8° ± 12.4°
Electrical Downtilt		degrees	(y) 0°
Impedance		Ohms	50Ω
VSWR		---	≤ 1.5:1
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A
Upper Sidelobe Suppression		dB	N/A
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
Input Power		Watts	100W

### ELECTRICAL SPECIFICATIONS LAA Band

■ O1 ■ O2

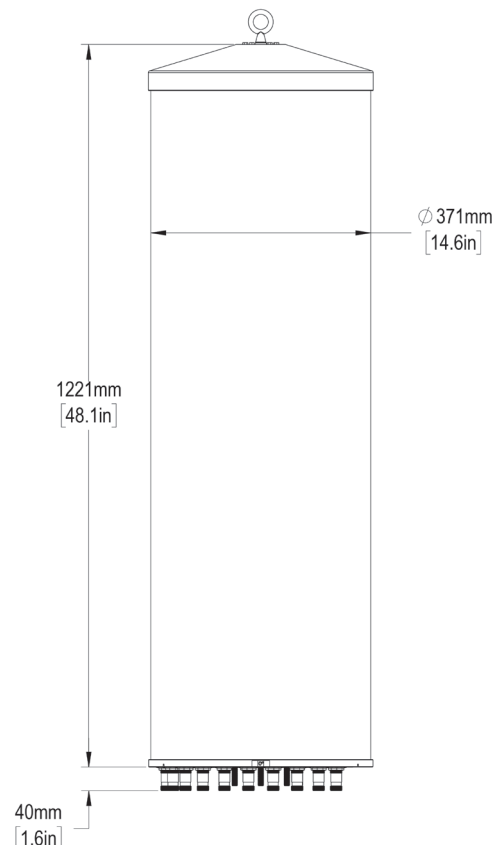
Frequency Range		MHz	(2x) 5150-5925
Polarization		---	(2x) ±45°
Gain	BASTA	dBi	5.1 ± 0.7
	MAX	dBi	5.8
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	21.0° ± 4.8°
Electrical Downtilt		degrees	(y) 0°
Impedance		Ohms	50Ω
VSWR		---	≤ 1.5:1
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A
Upper Sidelobe Suppression		dB	> 15
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
Input Power		Watts	50W
U-NII Compliant		---	Yes

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## 4U4MT360X12F<sub>xys0</sub>

### MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	1221 (48.1)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	20 (44)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	391 (88)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m <sup>2</sup> (ft <sup>2</sup> )	0.47 (5.0)
Volume	Total	m <sup>3</sup> (ft <sup>3</sup> )	0.13 (4.7)
	Each Antenna	m <sup>3</sup> (ft <sup>3</sup> )	0.065 (2.33)
Connector	Type	---	4.3-10 Female
	Quantity	---	16
	Position	---	Bottom
Radome Color		---	Grey (Pantone 420 C), Brown (Pantone 476 C), Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground

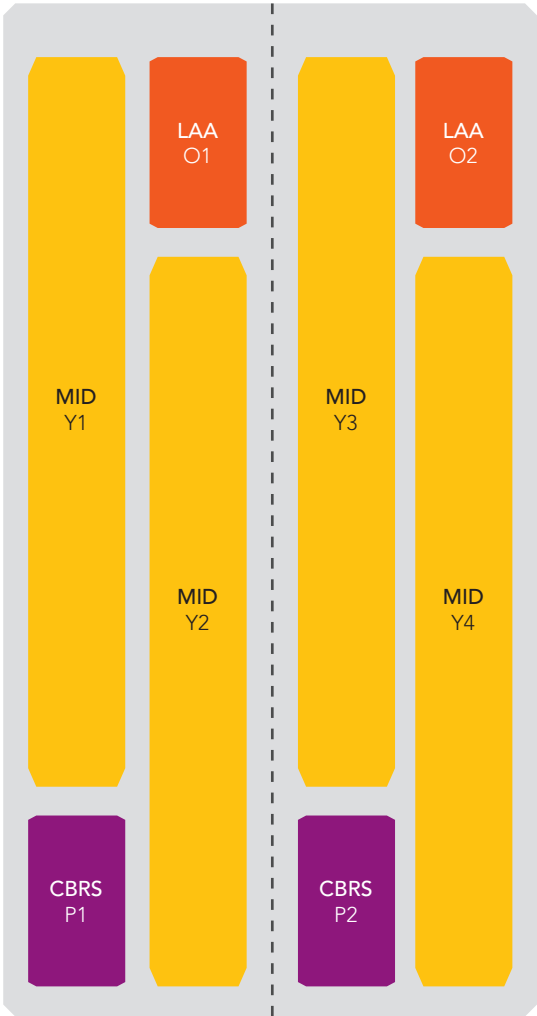


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4U4MT360X12F<sub>xy</sub>s0

ARRAY LAYOUT Topology

FREQUENCY		ARRAY	CONNECTOR	CONNECTOR TYPE
MID BAND	1695-2700	■ Y1	1-2	(2x) 4.3-10 Female
	1695-2700	■ Y2	3-4	(2x) 4.3-10 Female
	1695-2700	■ Y3	5-6	(2x) 4.3-10 Female
	1695-2700	■ Y4	7-8	(2x) 4.3-10 Female
CBRS BAND	3550-3700	■ P1	9-10	(2x) 4.3-10 Female
	3550-3700	■ P2	11-12	(2x) 4.3-10 Female
LAA BAND	5150-5925	■ O1	13-14	(2x) 4.3-10 Female
	5150-5925	■ O2	15-16	(2x) 4.310 Female

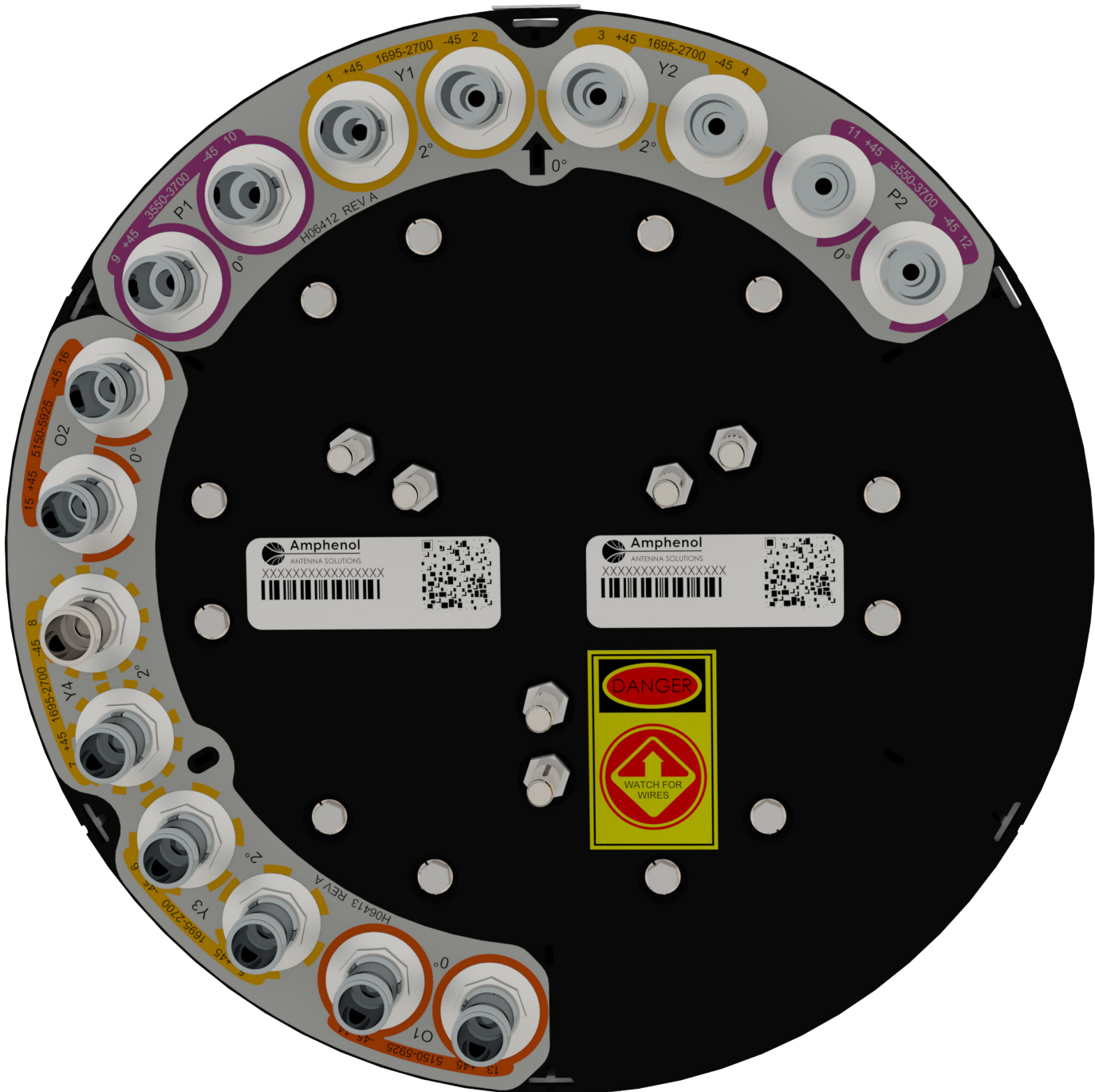


The illustration is not shown to scale.

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## 4U4MT360X12F<sub>xy</sub>s0

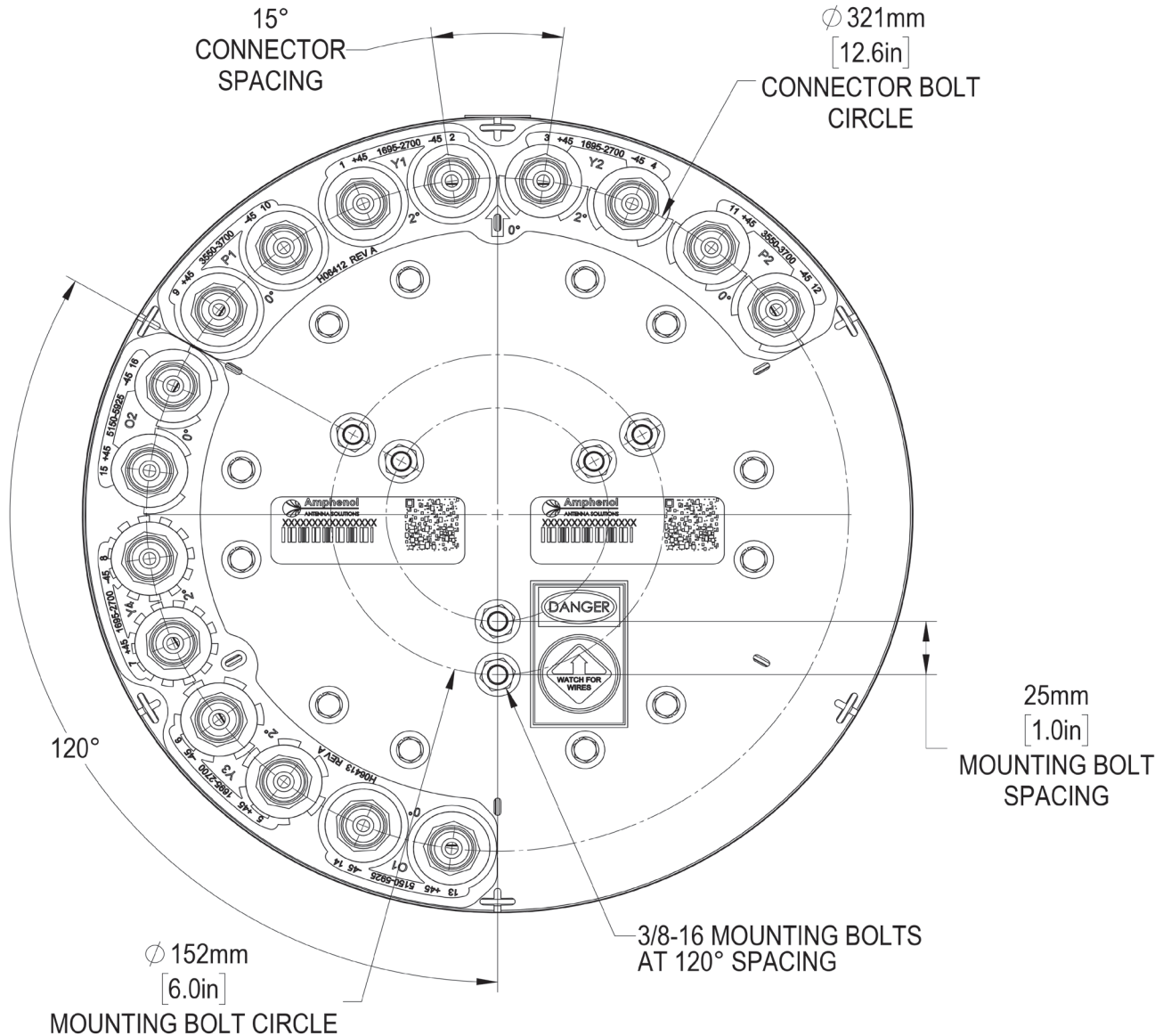
### BOTTOM VIEW - LABELING



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## 4U4MT360X12F<sub>xy</sub>s0

### BOTTOM VIEW - CONNECTOR DIAGRAM



**INSTALLATION** Please read all installation notes before installing this product.



Always attach the antenna using all mounting points.

Do not install the antenna with the connectors facing upwards.

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4U4MT360X12F<sub>xy</sub>s0

**MOUNTING KITS** Select from the following mounting options when ordering. Mounting kits for canister antennas are ordered as a separate line item.

MODEL NUMBER		DESCRIPTION
CWT-MKS-SIDE		SIDE MOUNTING BRACKET KIT FOR CANISTER ANTENNA
CWT-MKS-TOP		TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA
WB3X-MKS-01		UTILITY POLE MOUNTING BRACKET KIT FOR CANISTER ANTENNA
CWT-MKS-BASE-xx		WIDE DIAMETER POLE TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA. AVAILABLE IN BROWN, BLACK AND GREY TO MATCH ANTENNA RADOME AND/OR MOUNTING STRUCTURE.

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## 4U4MT360X12F<sub>xy</sub>s0

### HOW TO READ THE MODEL NUMBER Each letter and number has meaning.

NUMBER OF BANDS & OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BMWIDTH	POLARIZA-TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
4U	4M		T	360	X	12	F	xy	s	0	BK BR
(4x) 1695-2700	(2x) 3550-3700	(2x) 5150-5925	Tri-Sector	360°	XPOL	1.2 meters	Fixed Tilt	These letters are placeholders for fixed tilt options.  Refer to Electrical Specifications for available tilt options.	4.3-10 Connector	Original variation	BK indicates a Black radome.  BR indicates a Brown radome.  The default radome color is Grey. No letters are required for a Grey radome.

### ORDERING OPTIONS Select from the following ordering options

SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ORDER MODEL NUMBER
	MID BAND	CBRS BAND	LAA BAND	
Grey Pantone 420 C	2°	0°	0°	4U4MT360X12F20s0
	4°	0°	0°	4U4MT360X12F40s0
	6°	0°	0°	4U4MT360X12F60s0
	Y1 and Y2 = 2° Y3 and Y4 = 6°	0°	0°	4U4MT360X12FAAs0
Brown Pantone 476 C	2°	0°	0°	4U4MT360X12F20s0BR
	4°	0°	0°	4U4MT360X12F40s0BR
	6°	0°	0°	4U4MT360X12F60s0BR
	Y1 and Y2 = 2° Y3 and Y4 = 6°	0°	0°	4U4MT360X12FAAs0BR
Black RAL 9011	2°	0°	0°	4U4MT360X12F20s0BK
	4°	0°	0°	4U4MT360X12F40s0BK
	6°	0°	0°	4U4MT360X12F60s0BK
	Y1 and Y2 = 2° Y3 and Y4 = 6°	0°	0°	4U4MT360X12FAAs0BK

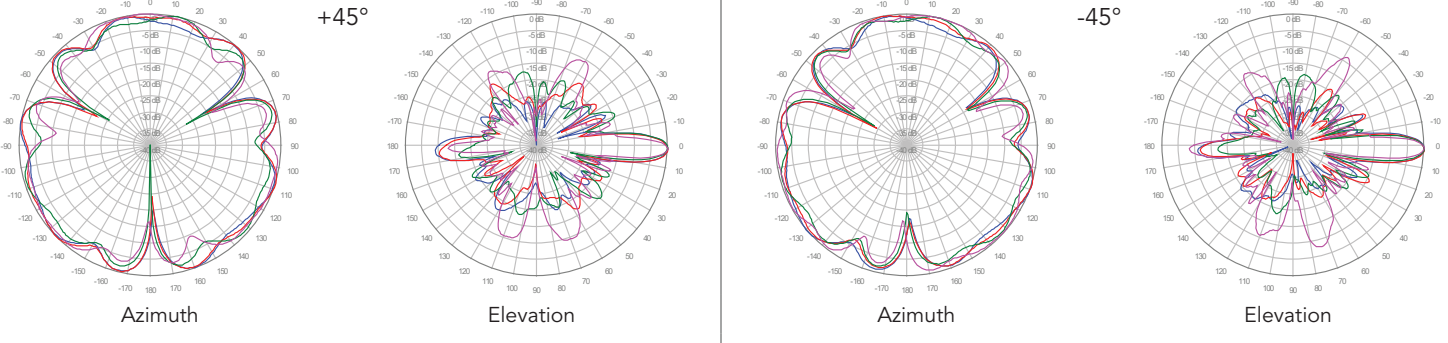
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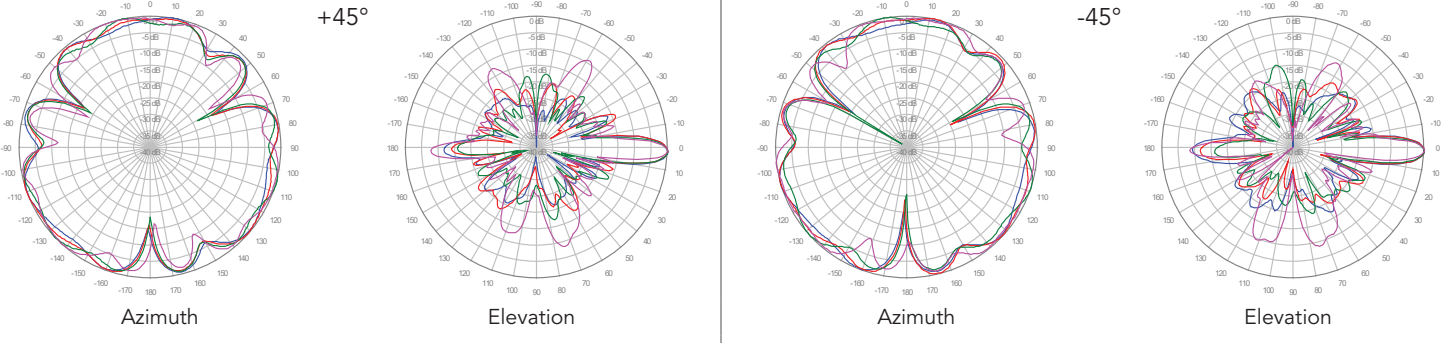
## 4U4MT360X12F<sub>xy</sub>s0

1800 MHz ————  
 1900 MHz ————  
 2100 MHz ————  
 2600 MHz ————

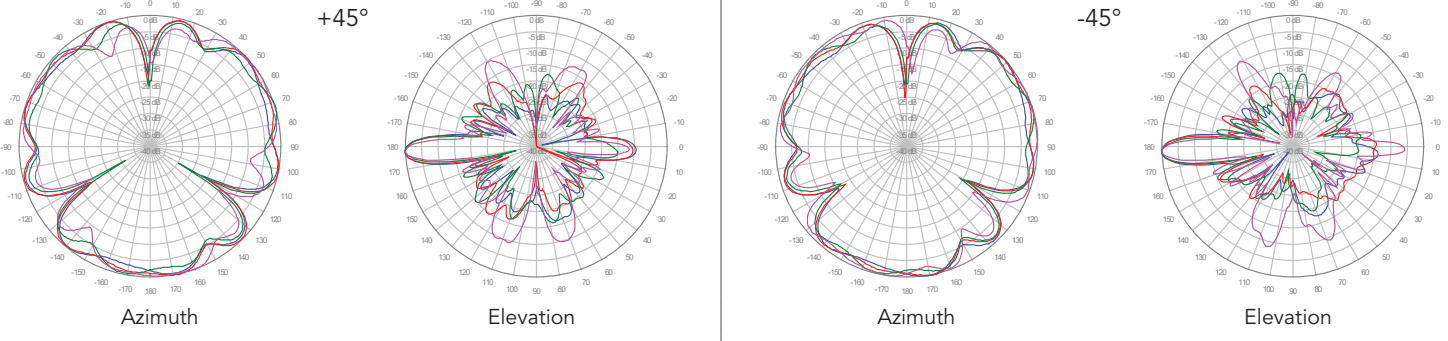
### Y1, 2° TILT



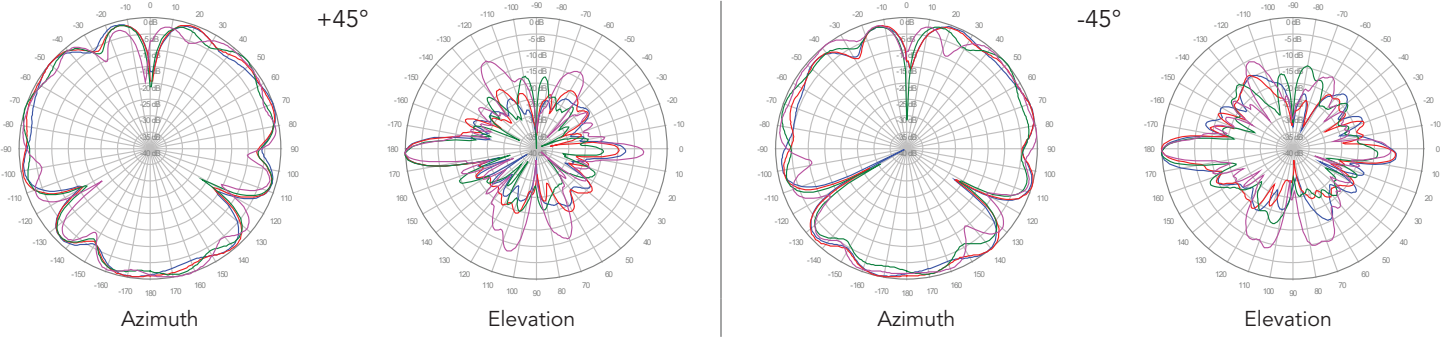
### Y2, 2° TILT



### Y3, 2° TILT



### Y4, 2° TILT

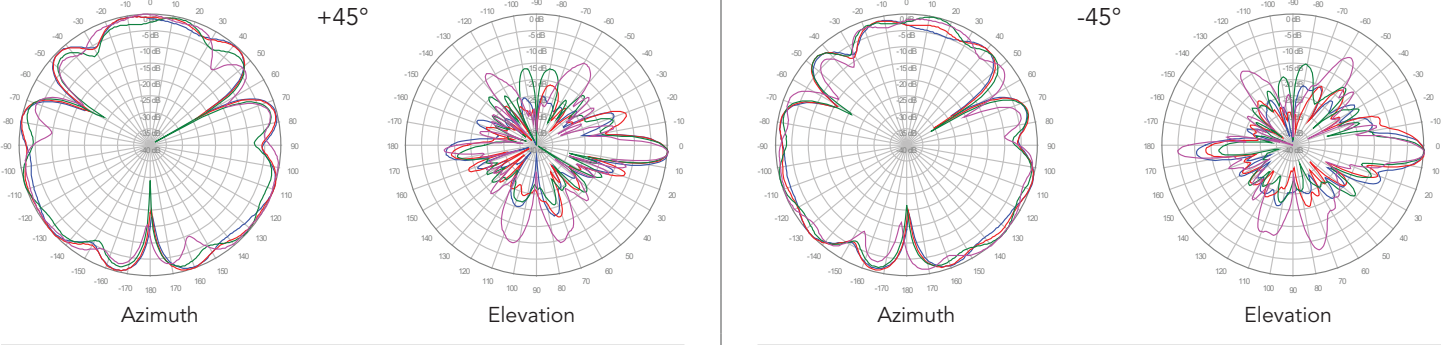


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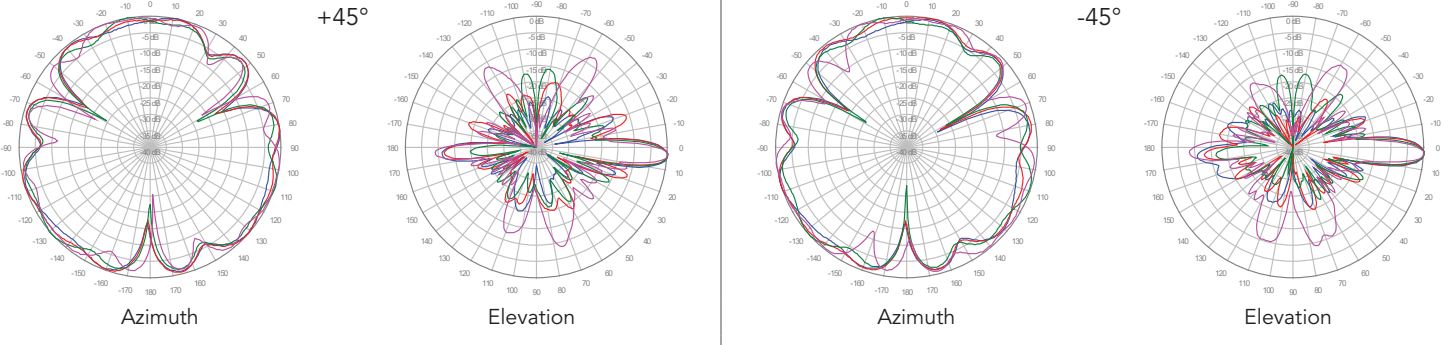
## 4U4MT360X12F<sub>xy</sub>s0

1800 MHz ————  
 1900 MHz ————  
 2100 MHz ————  
 2600 MHz ————

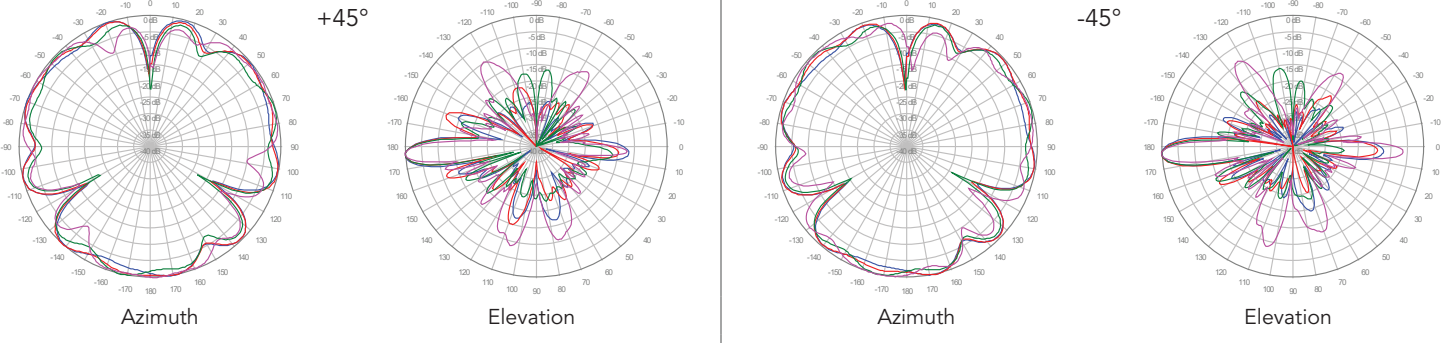
### Y1, 4° TILT



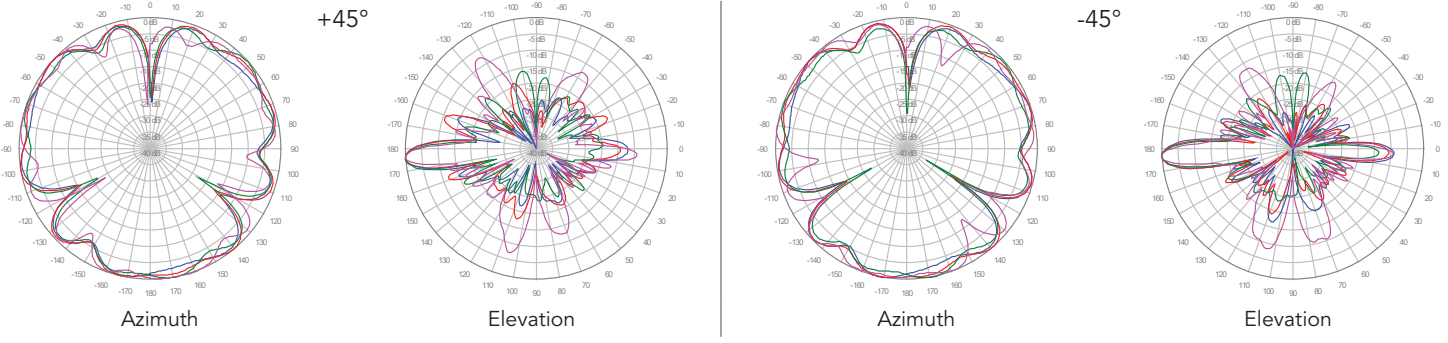
### Y2, 4° TILT



### Y3, 4° TILT



### Y4, 4° TILT



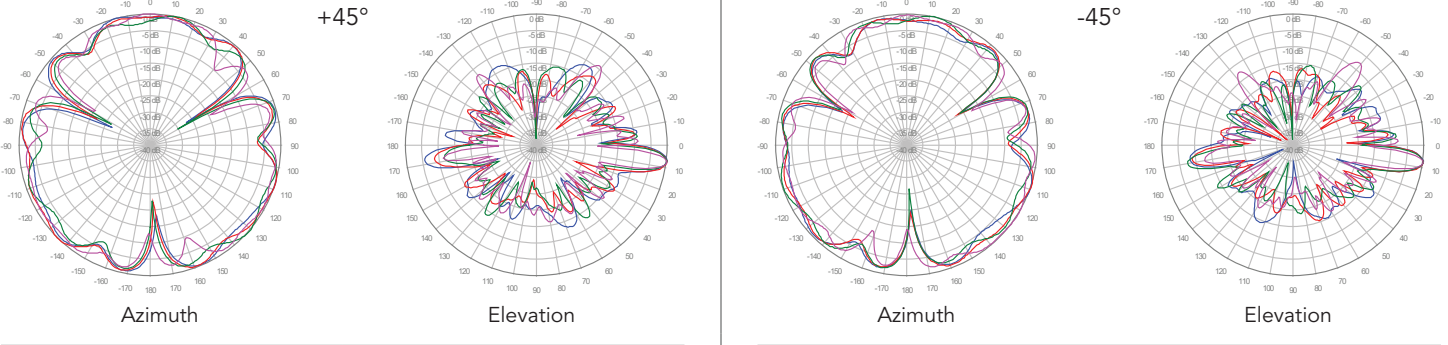
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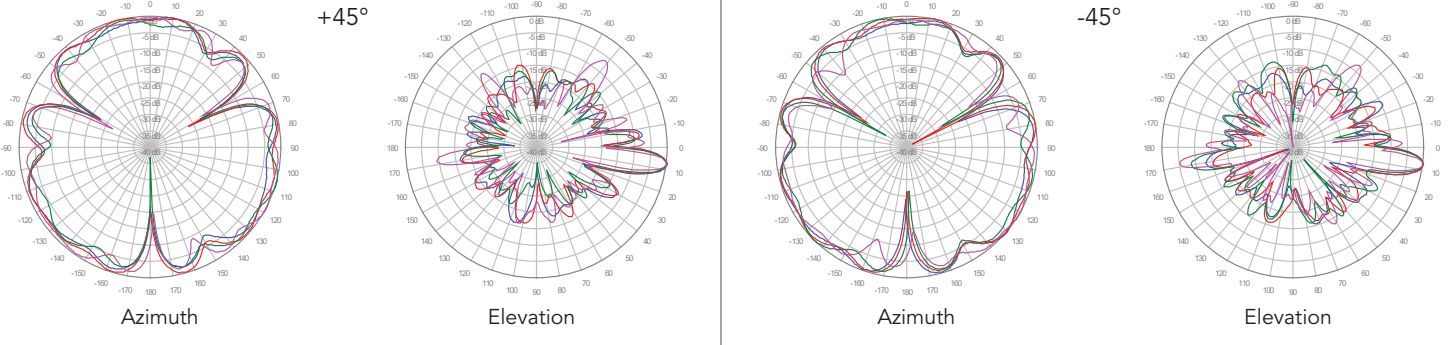
# 4U4MT360X12F<sub>xy</sub>s0

1800 MHz —  
1900 MHz —  
2100 MHz —  
2600 MHz —

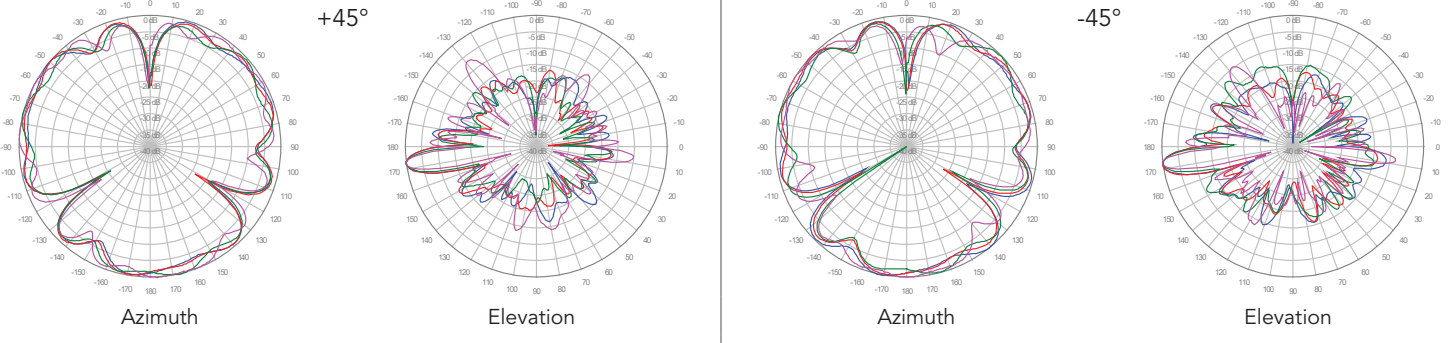
## Y1, 6° TILT



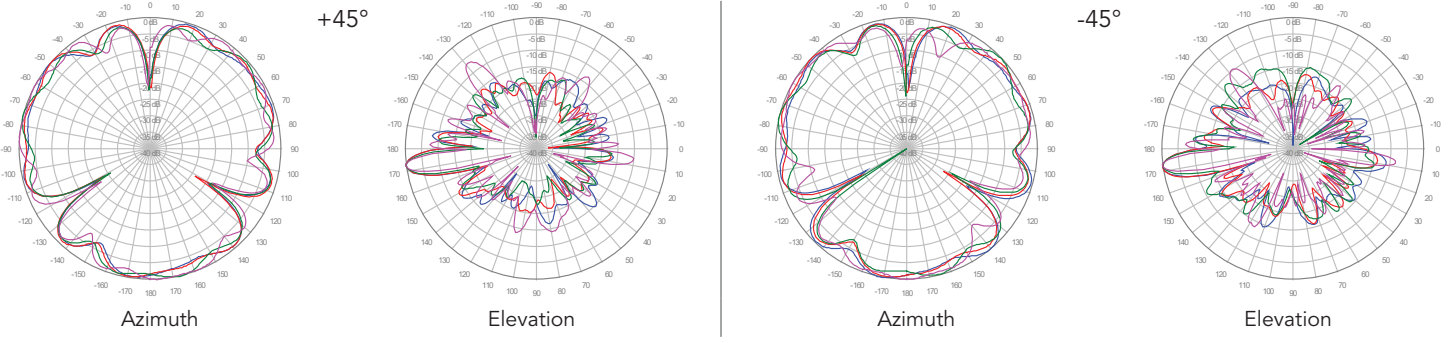
## Y2, 6° TILT



## Y3, 6° TILT



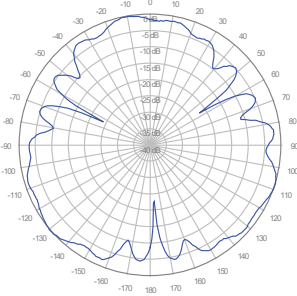
## Y4, 6° TILT



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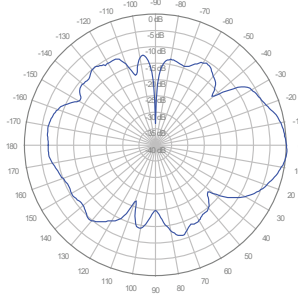
# 4U4MT360X12F<sub>xy</sub>0

## P1, 0° TILT

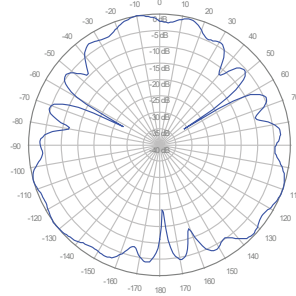


Azimuth (3600 MHz)

+45°

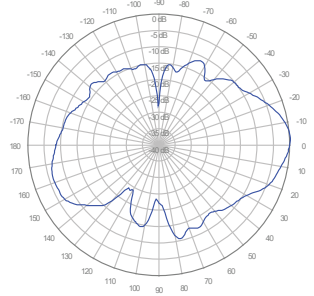


Elevation (3600 MHz)



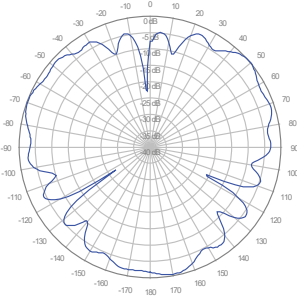
Azimuth (3600 MHz)

-45°



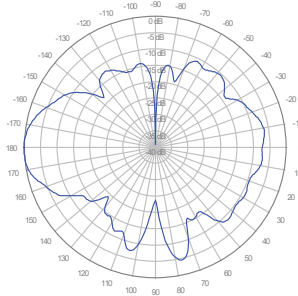
Elevation (3600 MHz)

## P2, 0° TILT

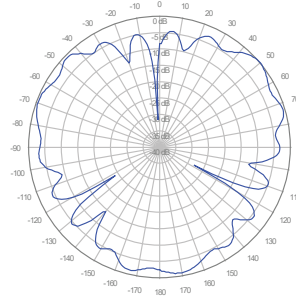


Azimuth (3600 MHz)

+45°

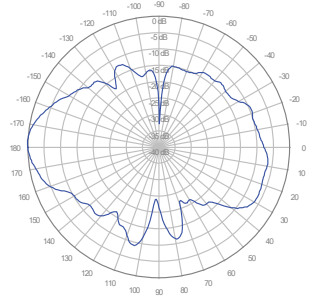


Elevation (3600 MHz)



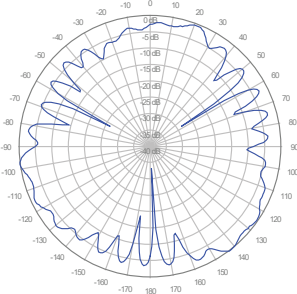
Azimuth (3600 MHz)

-45°



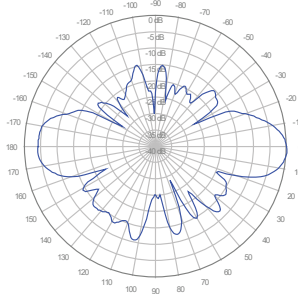
Elevation (3600 MHz)

## O1, 0° TILT

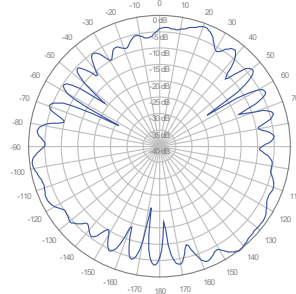


Azimuth (5600 MHz)

+45°

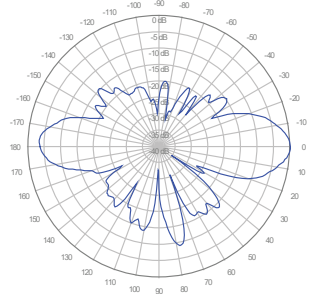


Elevation (5600 MHz)



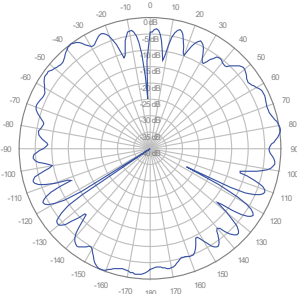
Azimuth (5600 MHz)

-45°



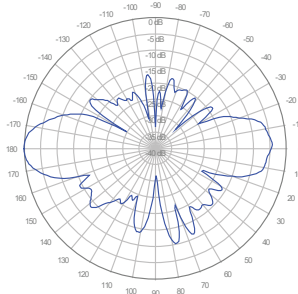
Elevation (5600 MHz)

## O2, 0° TILT

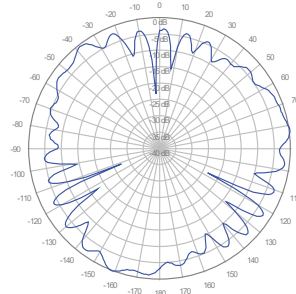


Azimuth (5600 MHz)

+45°

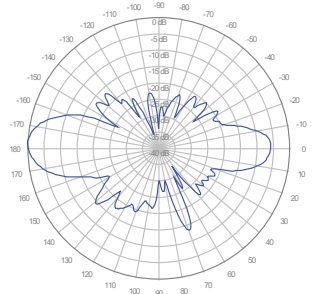


Elevation (5600 MHz)



Azimuth (5600 MHz)

-45°



Elevation (5600 MHz)

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