Amphenol ANTENNA SOLUTIONS

18-Port Canister Antenna

(2x) 696-960 | (4x) 1695-2700 | (2x) 3300-4200 | (1x) 5150-5925 MHz

OMNI | 24 IN | FIXED TILT

2C4U3MT360X06Fwxys3

Features

- 4G/5G Pseudo Omni configuration with 18 connectors
- Ideal for Small Cell / DAS applications
- Features extended CBRS Band from 3300 to 4200 MHz
- This antenna meets the requirements of the U-NII
- Available for order with a grey, brown or black radome

PRODUCT OVERVIEW												
	Frequency Range (MHz)	LOW BAND		MID BAND				CBRS BAND		LAA BAND		
		(2x) 696-960		(4x) 1695-2700				(2x) 3300-4200		(1x) 5150-5925		
	Array	R1	R2	Y1	Y2	Y3	Y4	P1	P2	O1		
	Connector	4 PORTS		8 PORTS				4 PORTS		2 PORTS		
	Polarization	XPOL		XPOL				XPOL		XPOL		
	Azimuth Beamwidth (avg)	360°		360°				360°		360°		
	Electrical Downtilt	0°		2°, 4°, 6°				0°		0°		
	Configuration	OMNI CONFIGURATION										
	Total Connector Count	18 PORTS										
	Connector Type	4.3-10 FEMALE										
	Dimensions	610 x Ø371 mm (24.0 x Ø14.6 in)										
	Radome Color Options	GREY, BROWN or BLACK										

ELECTRICAL SPECIFICATIONS Low Band

			R1	R2
Frequency Range		MHz	(2x) 696-960	
Frequency Sub-Range		MHz	696-806	806-960
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	4.2 ± 0.9	3.9 ± 0.7
	MAX	dBi	5.1	4.6
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	96.9° ± 26.7°	72.0° ± 21.7°
Electrical Downtilt		degrees	(w) 0°	
Impedance		Ohms	50	
VSWR		---	≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153	
Upper Sidelobe Suppression		dB	N/A	
Isolation	Intraband	dB	> 25	
	Interband	dB	> 28	
Input Power		Watts	500W	

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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	7.0 ± 0.6	7.3 ± 0.9	7.0 ± 0.9	7.2 ± 0.8
	MAX	dBi	7.6	8.2	7.9	8.0
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	35.2° ± 8.7°	31.6° ± 7.1°	32.0° ± 18.9°	25.0° ± 7.0°
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	N/A			
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28			
Input Power		Watts	300W			

ELECTRICAL SPECIFICATIONS CBRS Band

■ P1 ■ P2

Frequency Range		MHz	(2x) 3300-4200
Polarization		---	(2x) ±45°
Gain	BASTA	dBi	5.7 ± 0.4
	MAX	dBi	6.1
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	26.5° ± 4.3°
Electrical Downtilt		degrees	(y) 0°
Impedance		Ohms	50
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

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ELECTRICAL SPECIFICATIONS LAA Band			■ **O1**
Frequency Range		MHz	(1x) 5150-5925
Polarization		---	(1x) ±45°
Gain	BASTA	dBi	5.0 ± 1.1
	MAX	dBi	6.1
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	20.8° ± 2.2°
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	Meets FCC requirements upper pattern control for use in LAA outdoor network
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
Input Power		Watts	50W
U-NII Compliant		---	Yes

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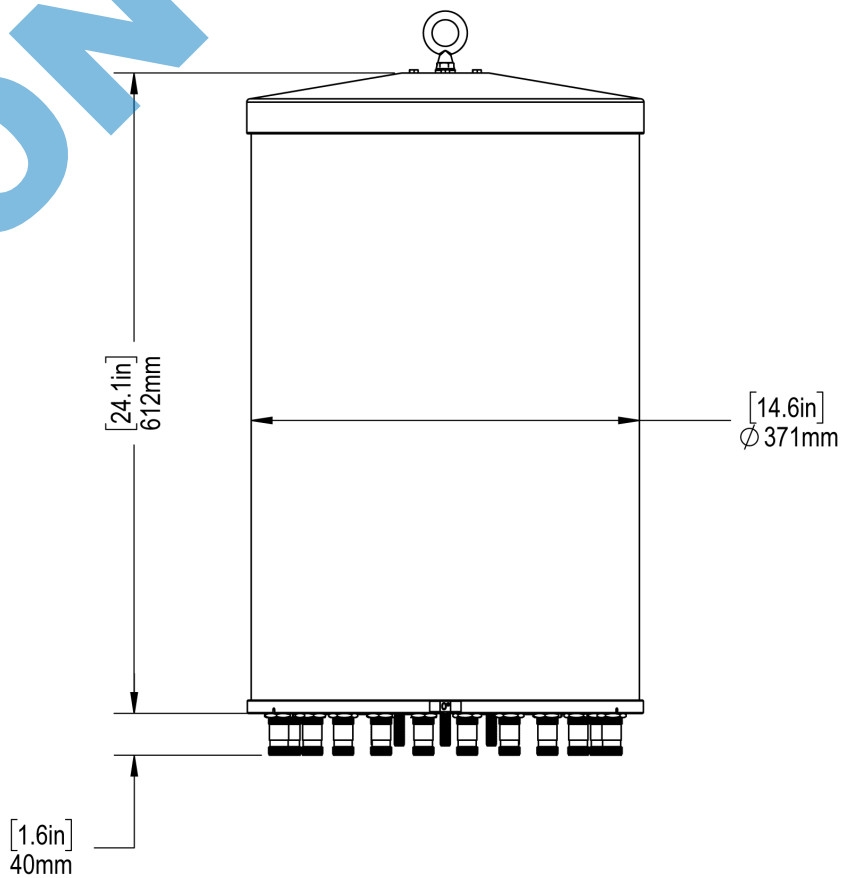
MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	612 (24.1)
	Diameter		mm (in)	371 (14.6)
Net Weight - Antenna Only			kg (lbs)	11.3 (25.0)
Windload		Calculation	km/h (mph)	160 (100)
		Frontal	N (lbf)	191 (43)
Survival Wind Speed			km/h (mph)	241 (150)
Wind Area			m^2 (ft^2)	0.22 (2.4)
Volume			m^3 (ft^3)	0.07 (2.3)
Connector		Type	---	4.3-10 Female
		Quantity	---	18
		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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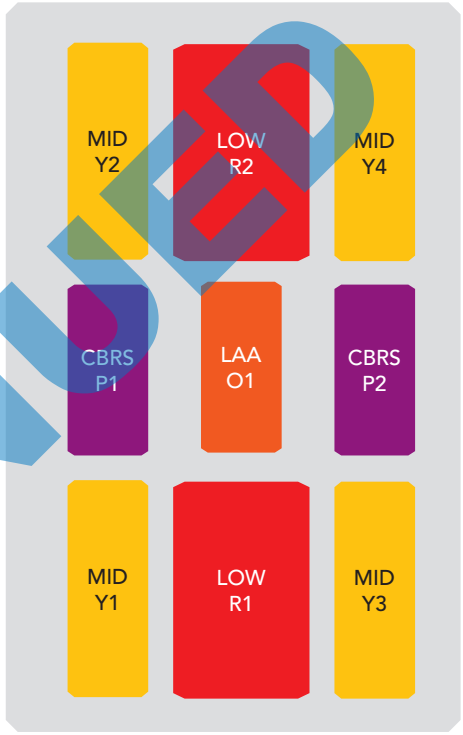
ARRAY LAYOUT Topology

FREQUENCY		ARRAY	CONNECTOR	CONNECTOR TYPE
LOW BAND	696-960	R1	1-2	(2x) 4.3-10 Female
	696-960	R2	3-4	(2x) 4.3-10 Female
MID BAND	1695-2700	Y1	5-6	(2x) 4.3-10 Female
	1695-2700	Y2	7-8	(2x) 4.3-10 Female
	1695-2700	Y3	9-10	(2x) 4.3-10 Female
	1695-2700	Y4	11-12	(2x) 4.3-10 Female
CBRS BAND	3300-4200	P1	13-14	(2x) 4.3-10 Female
	3300-4200	P2	15-16	(2x) 4.3-10 Female
LAA BAND	5150-5925	O1	17-18	(2x) 4.3-10 Female



The illustration is not shown to scale.

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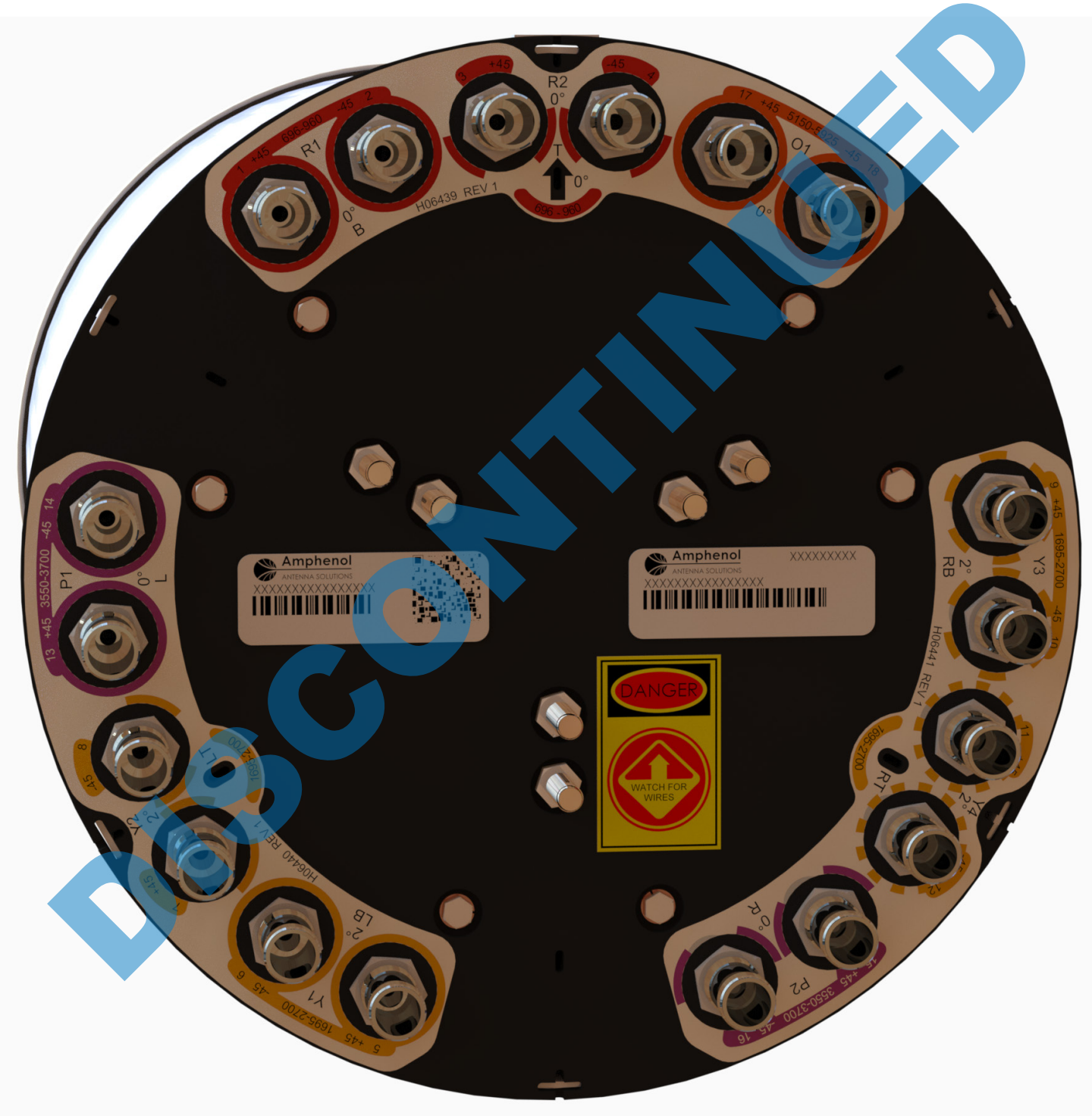
BOTTOM VIEW - LABELING



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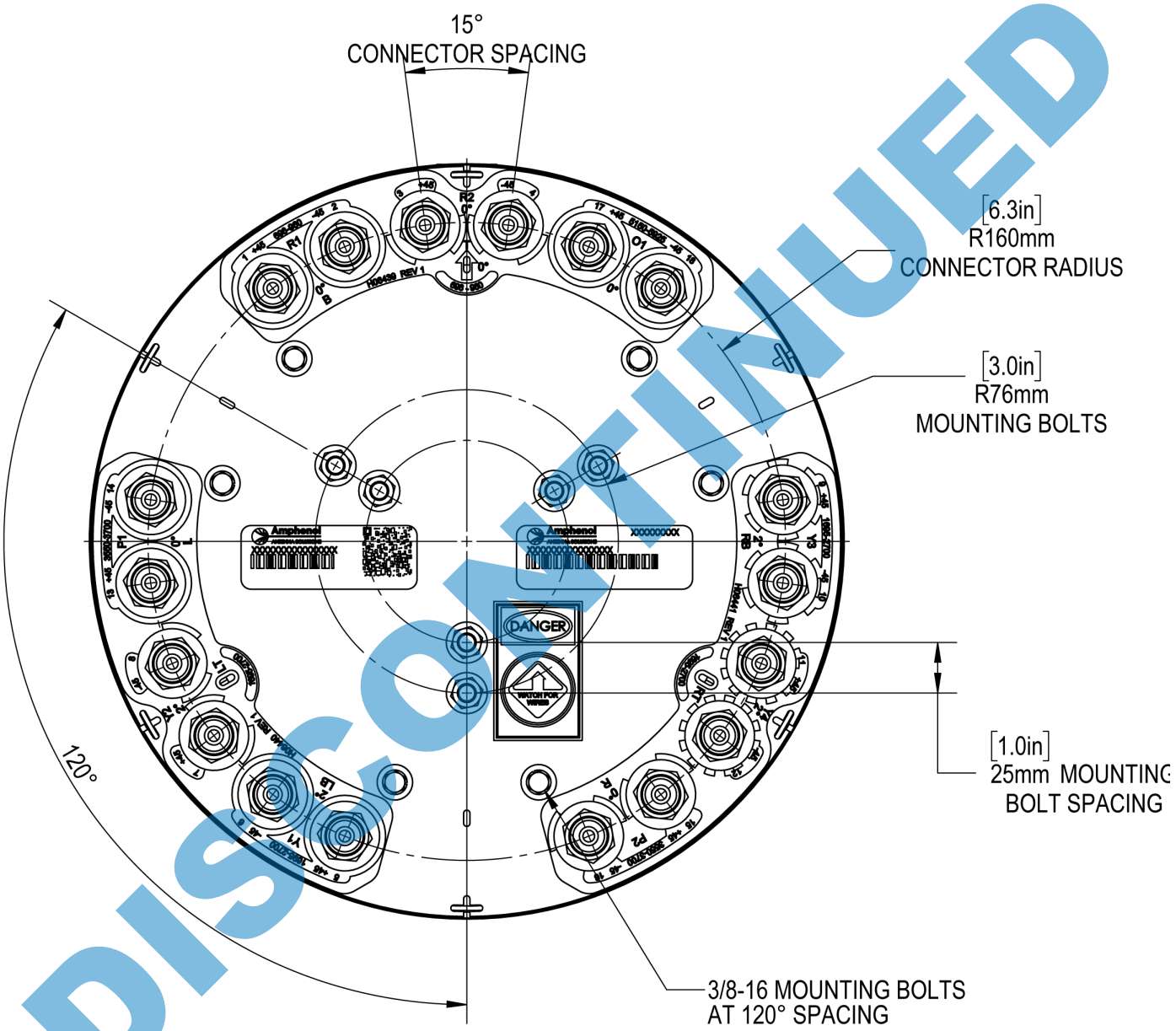
BOTTOM VIEW - CONNECTOR DIAGRAM



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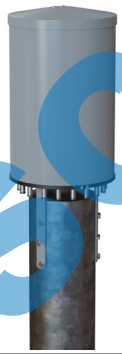
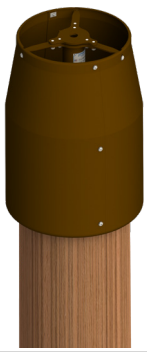
MOUNTING KITS Select from the following mounting options when ordering. Mounting kits for canister antennas are ordered as a separate line item.

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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HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

NUMBER OF BANDS and OPERATING FREQUENCY				PATTERN TYPE	AZIMUTH BMWDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
2C	4U	3M		T	360	X	06	F	wxy	s	3	BK BR
(2x) 696-960	(4x) 1695-2700	(2x) 3300-4200	(1x) 5150-5925	Tri-Sector	360° Omni	XPOL	0.6 meters	Fixed Tilt	These letters are placeholders for fixed tilt options. Refer to Electrical Specifications for available tilt options.	4.3-10 Connector	3rd generation mechanical package	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
	LOW BAND	MID BAND	CBRS BAND	LAA BAND	
Grey Pantone 420 C	0°	2°	0°	0°	2C4U3MT360X06F020s3
	0°	4°	0°	0°	2C4U3MT360X06F040s3
	0°	6°	0°	0°	2C4U3MT360X06F060s3
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2C4U3MT360X06FAAAs3
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FBBBs3
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FCCCs3
Brown Pantone 476 C	0°	2°	0°	0°	2C4U3MT360X06F020s3BR
	0°	4°	0°	0°	2C4U3MT360X06F040s3BR
	0°	6°	0°	0°	2C4U3MT360X06F060s3BR
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2C4U3MT360X06FAAAs3BR
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FBBBs3BR
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FCCCs3BR
Black RAL 9011	0°	2°	0°	0°	2C4U3MT360X06F020s3BK
	0°	4°	0°	0°	2C4U3MT360X06F040s3BK
	0°	6°	0°	0°	2C4U3MT360X06F060s3BK
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2C4U3MT360X06FAAAs3BK
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FBBBs3BK
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FCCCs3BK

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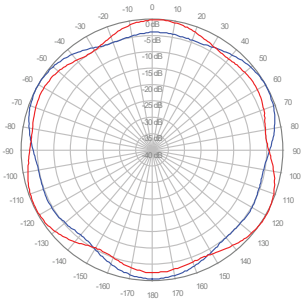
2C4U3MT360X06Fwxys3

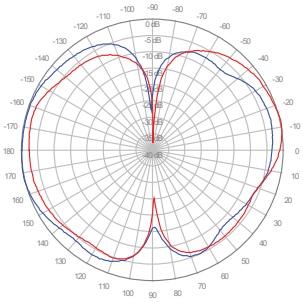
750 MHz
850 MHz

R1, 0° TILT

+45°

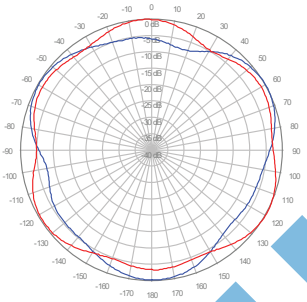


Azimuth



Elevation

-45°



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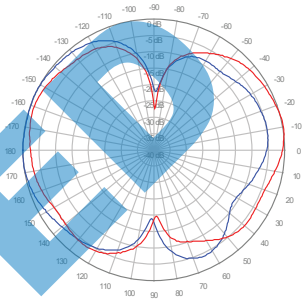
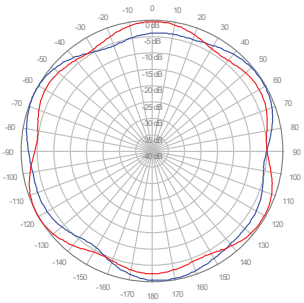


Elevation

R2, 0° TILT

+45°



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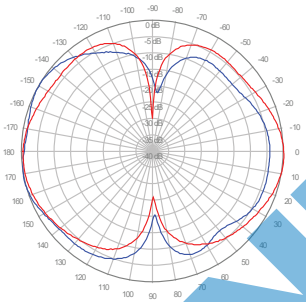
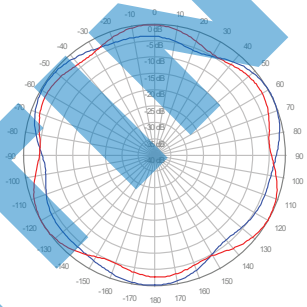


Elevation

-45°



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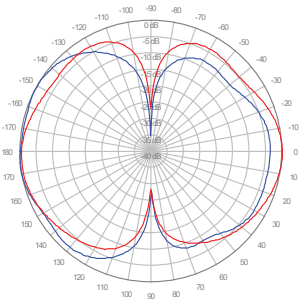


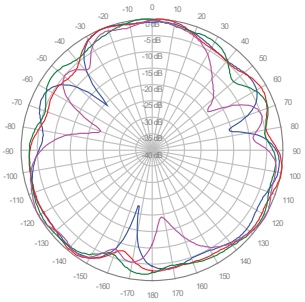
Elevation

2C4U3MT360X06Fwxys3

1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 2° TILT

+45°



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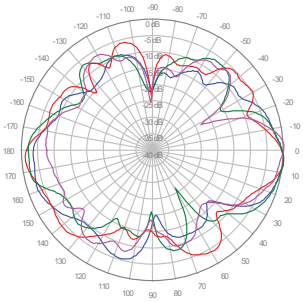
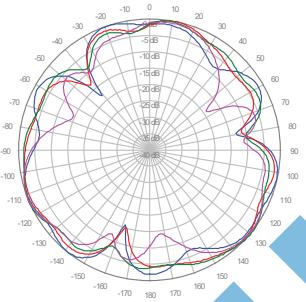


Elevation

-45°



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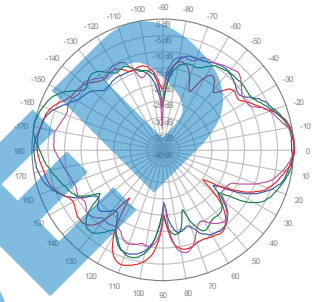
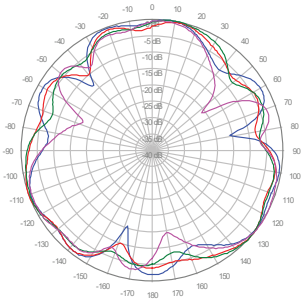


Elevation

Y2, 2° TILT

+45°



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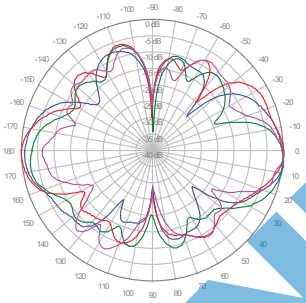
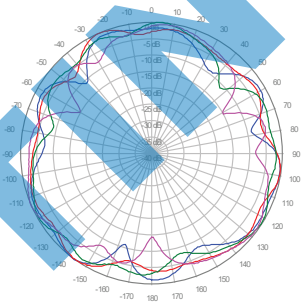


Elevation

-45°



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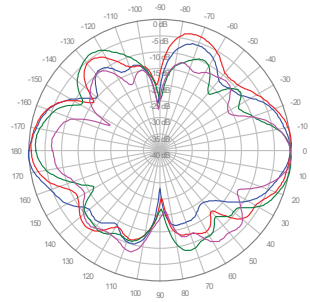
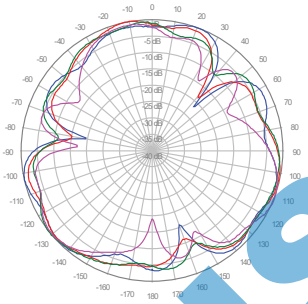


Elevation

Y3, 2° TILT

+45°



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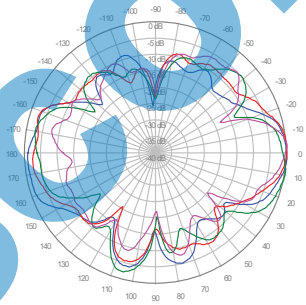
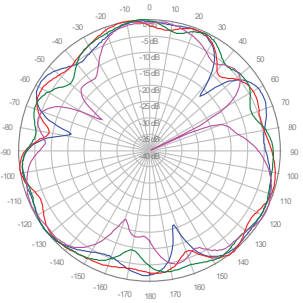


Elevation

-45°



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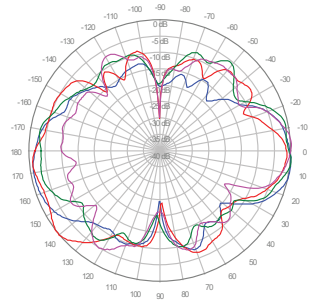
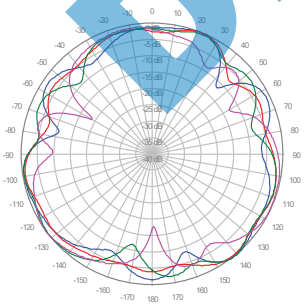


Elevation

Y4, 2° TILT

+45°



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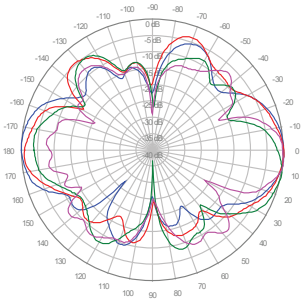
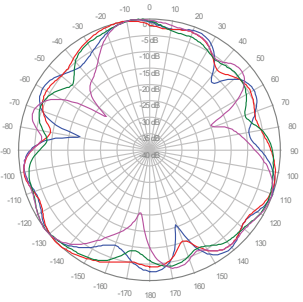
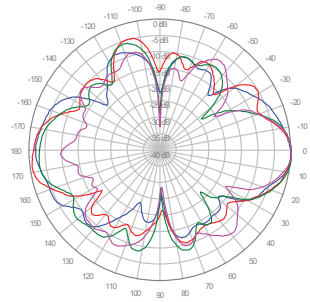


Elevation

-45°



Azimuth



Elevation

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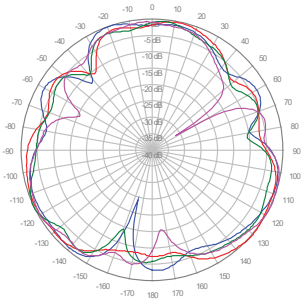
2C4U3MT360X06Fwxys3

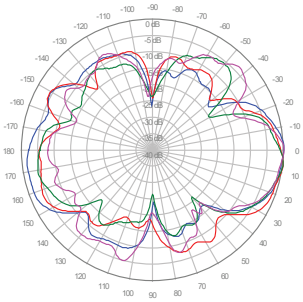
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 4° TILT

+45°

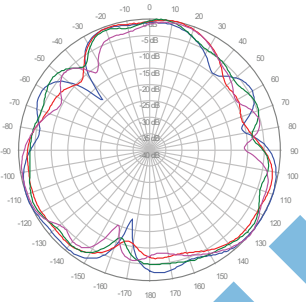


Azimuth

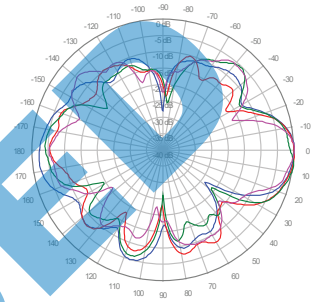


Elevation

-45°



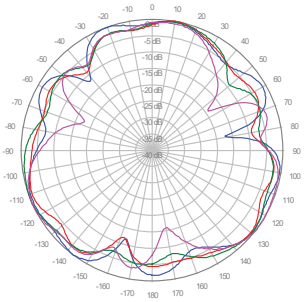
Azimuth



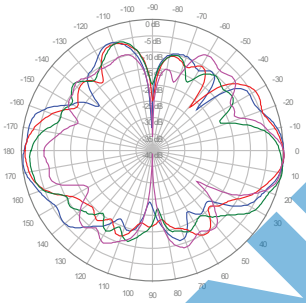
Elevation

Y2, 4° TILT

+45°

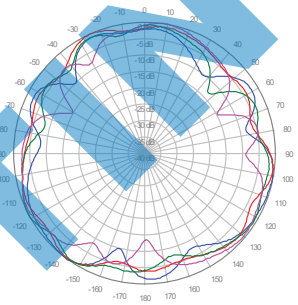


Azimuth

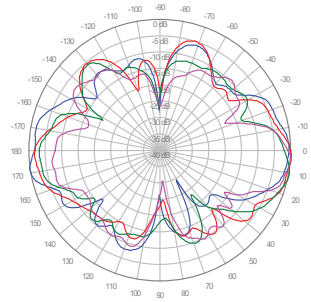


Elevation

-45°



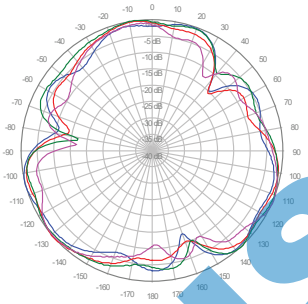
Azimuth



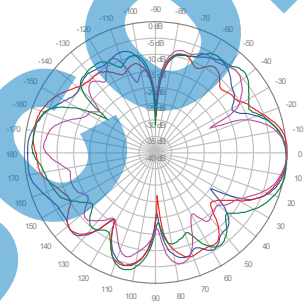
Elevation

Y3, 4° TILT

+45°

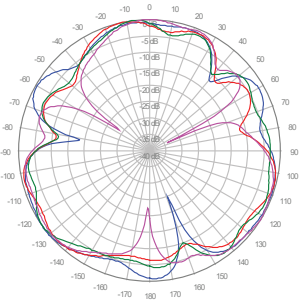


Azimuth

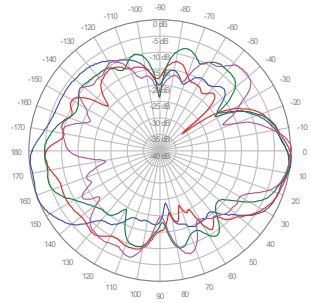


Elevation

-45°



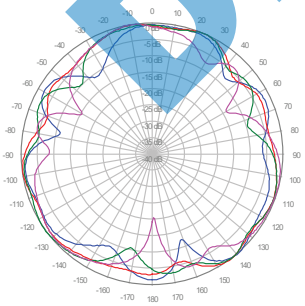
Azimuth



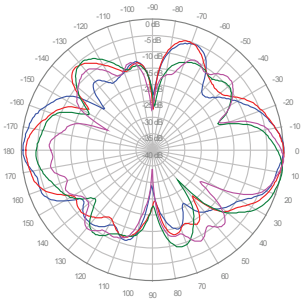
Elevation

Y4, 4° TILT

+45°

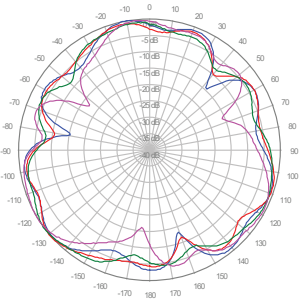


Azimuth

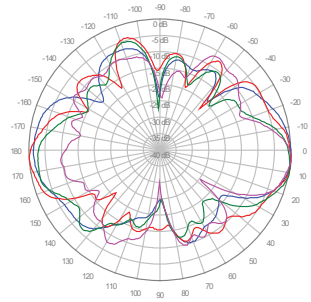


Elevation

-45°



Azimuth



Elevation

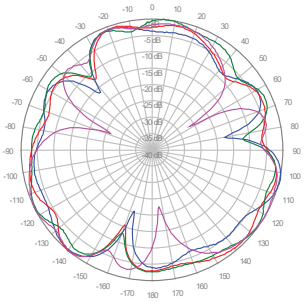
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

2C4U3MT360X06Fwxys3

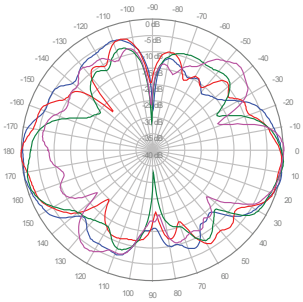
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 6° TILT

+45°

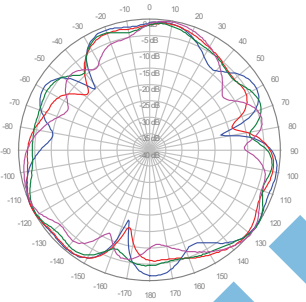


Azimuth

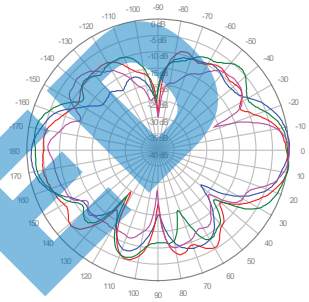


Elevation

-45°



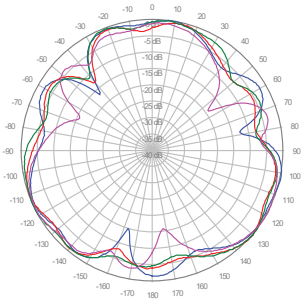
Azimuth



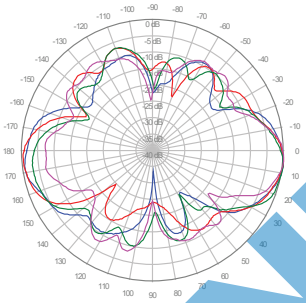
Elevation

Y2, 6° TILT

+45°

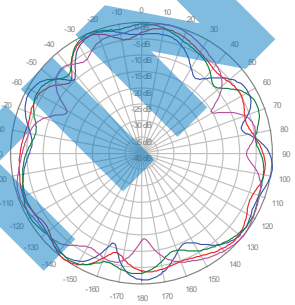


Azimuth

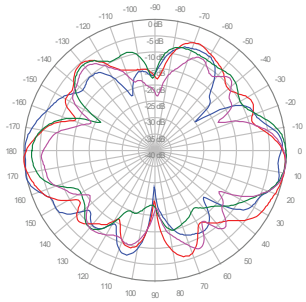


Elevation

-45°



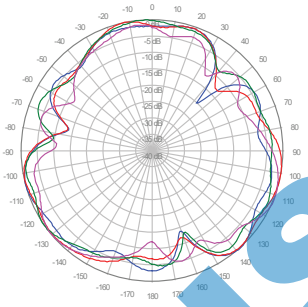
Azimuth



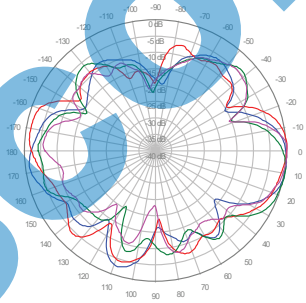
Elevation

Y3, 6° TILT

+45°

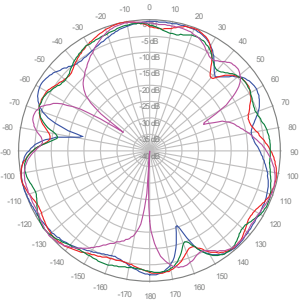


Azimuth

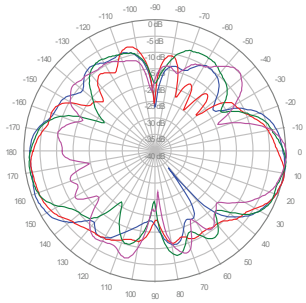


Elevation

-45°



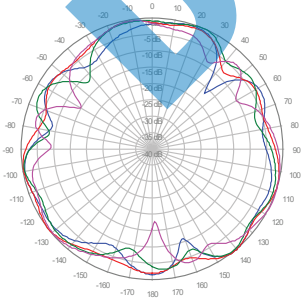
Azimuth



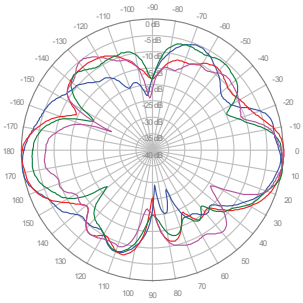
Elevation

Y4, 6° TILT

+45°

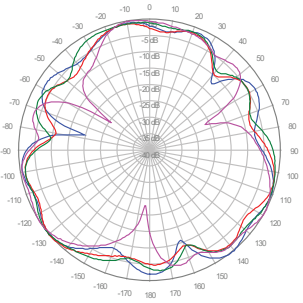


Azimuth

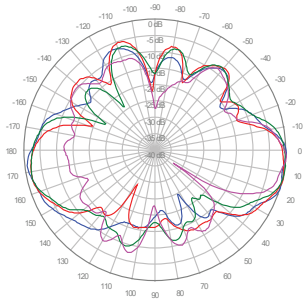


Elevation

-45°



Azimuth

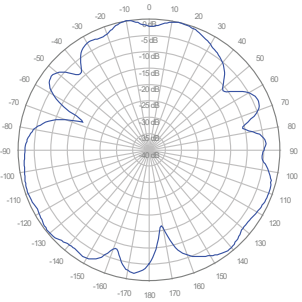


Elevation

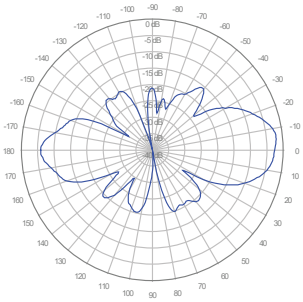
2C4U3MT360X06Fwxys3

P1, 0° TILT

+45°

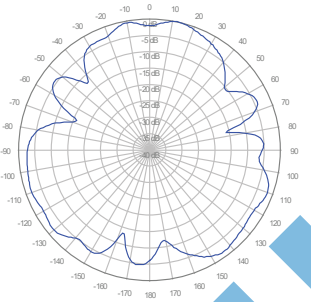


Azimuth (3600 MHz)

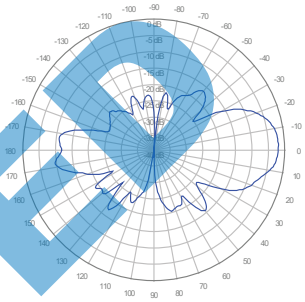


Elevation (3600 MHz)

-45°



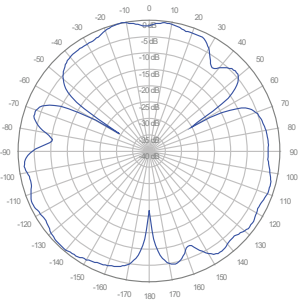
Azimuth (3600 MHz)



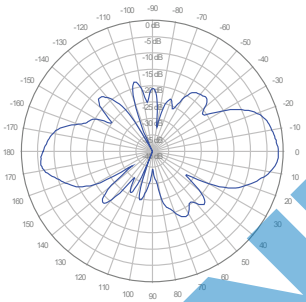
Elevation (3600 MHz)

P2, 0° TILT

+45°

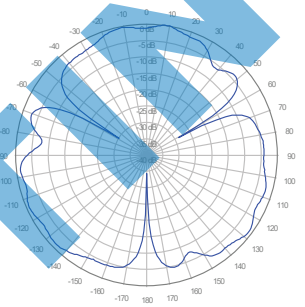


Azimuth (3600 MHz)

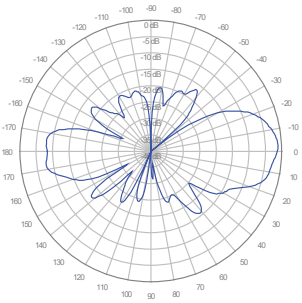


Elevation (3600 MHz)

-45°



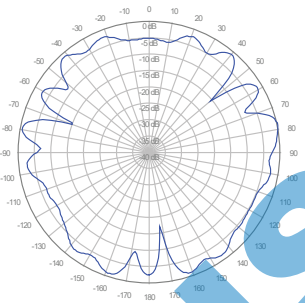
Azimuth (3600 MHz)



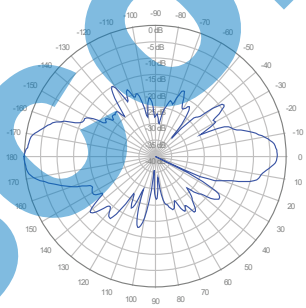
Elevation (3600 MHz)

O1, 0° TILT

+45°

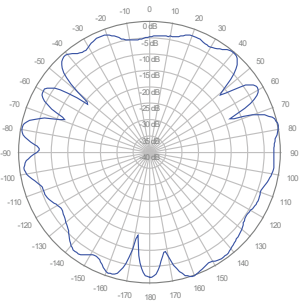


Azimuth (5600 MHz)

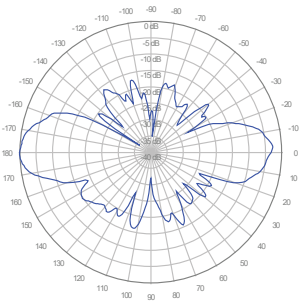


Elevation (5600 MHz)

-45°



Azimuth (5600 MHz)



Elevation (5600 MHz)