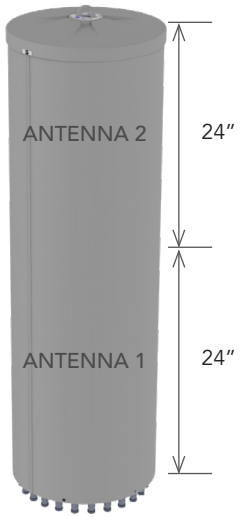
24-Port Canister Antenna

(2x) 696-960 | (6x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

OMNI | 47.6 IN | FIXED TILT

2C6U4MT360X12Fwxys4



Features

- Pseudo omni configuration with 24 connectors
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 696-960, 1695-2700 and 3300-4200 MHz
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR
- This antenna meets the requirements of the U-NII

PRODUCT OVERVIEW					
	Frequency Range (MHz)	(2x) 696-960	(6x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925
	Array	R1 R2	Y1 Y2 Y3 Y4 Y5 Y6	P1 P2	O1 O2
	Connector	4 PORTS	12 PORTS	4 PORTS	4 PORTS
	Polarization	XPOL	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°	360°	360°
	Electrical Downtilt	0°	2°, 4°, 6°	0°	0°
	Configuration	OMNI CONFIGURATION			
	Maximum Continuous Power Per Port @ 50° C (122° F)	500 WATTS	300 WATTS	100 WATTS	50 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	6200 WATTS			
	Connector Type	(24x) 4.3-10 FEMALE			
	Dimensions	1208.4 x Ø371 mm (47.6 x Ø14.6 in)			
	Radome Color Options	GREY, BROWN or BLACK			

ELECTRICAL SPECIFICATIONS — **R1 R2**

Frequency Range		MHz	(2x) 696-960	
Frequency Sub-Range		MHz	696-806	806-960
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	4.1 ± 0.5	3.4 ± 0.7
	MAX	dBi	4.6	4.1
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	69.4° ± 14.2°	70.9° ± 13.3°
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	N/A
Isolation	Intraband	dB	> 25	
	Interband	dB	> 28	

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ELECTRICAL SPECIFICATIONS			Y1 Y2 Y3 Y4 Y5 Y6			
Frequency Range		MHz	(6x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(6x) ±45°			
Gain	BASTA	dBi	8.0 ± 0.6	8.3 ± 0.5	8.4 ± 0.6	9.2 ± 0.7
	MAX	dBi	8.6	8.8	9.0	9.9
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	21.5° ± 3.0°	19.5° ± 1.7°	18.6° ± 1.9°	15.5° ± 2.1°
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	N/A	N/A	N/A
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28			

ELECTRICAL SPECIFICATIONS			P1 P2
Frequency Range		MHz	(2x) 3300-4200
Polarization		---	(2x) ±45°
Gain	BASTA	dBi	5.8 ± 0.5
	MAX	dBi	6.3
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	26.4 ± 6.1°
Electrical Downtilt		degrees	(y) 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

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ELECTRICAL SPECIFICATIONS			■ O1 ■ O2
Frequency Range		MHz	(2x) 5150-5925
Polarization		---	(2x) ±45°
Gain	BASTA	dBi	5.2 ± 0.8
	MAX	dBi	6.0
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	20.6° ± 3.0°
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	> 11
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
U-NII Compliant		---	Yes

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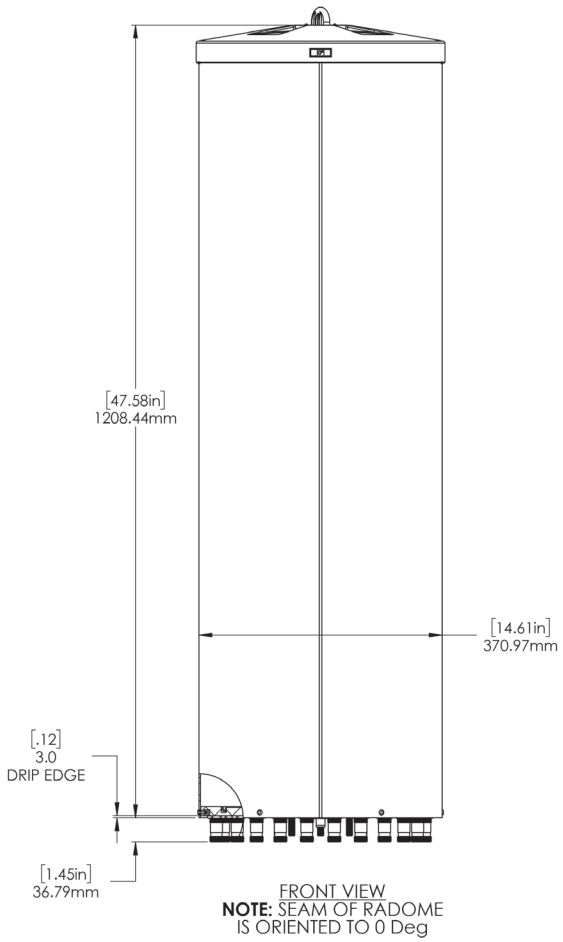
MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	1208.4 (47.6)
	Diameter		mm (in)	371 (14.6)
Net Weight - Antenna Only			kg (lbs)	20.4 (45.0)
Windload		Calculation	km/h (mph)	160 (100)
		Frontal	N (lbf)	391 (88)
Survival Wind Speed			km/h (mph)	241 (150)
Wind Area			m^2 (ft^2)	0.47 (5.0)
Volume		Total	m^3 (ft^3)	0.13 (4.7)
		Each Antenna	m^3 (ft^3)	0.065 (2.33)
Connector		Type	---	(24x) 4.3-10 Female
		Position	---	Bottom
Radome Color			---	Grey (RAL 7035) Brown (RAL 8022) Black (RAL 9011)
Lightning Protection (Grounding Type)			---	Direct Ground



FRONT VIEW
NOTE: SEAM OF RADOME IS ORIENTED TO 0 Deg

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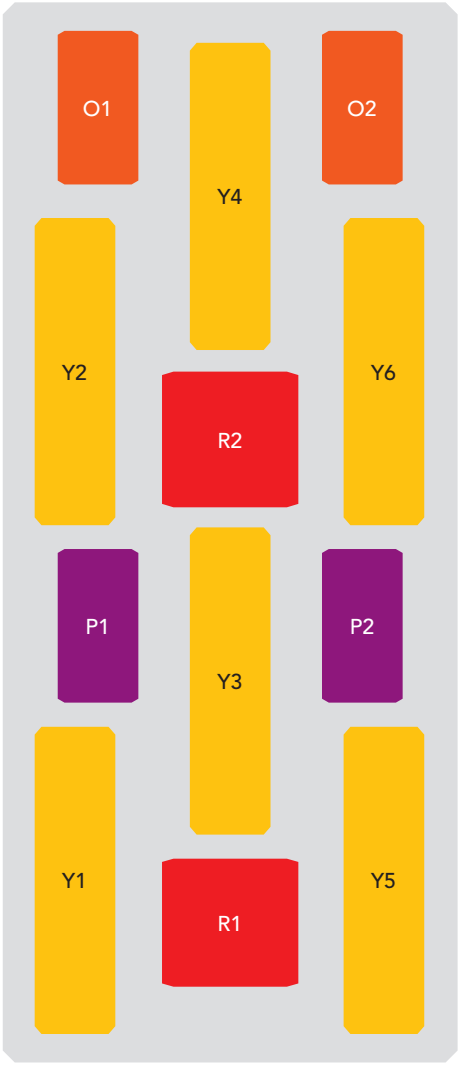
ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	R1	1-2	(2x) 4.3-10 Female
696-960 MHz	R1	3-4	(2x) 4.3-10 Female
1695-2700 MHz	Y1	5-6	(2x) 4.3-10 Female
1695-2700 MHz	Y2	7-8	(2x) 4.3-10 Female
1695-2700 MHz	Y3	9-10	(2x) 4.3-10 Female
1695-2700 MHz	Y4	11-12	(2x) 4.3-10 Female
1695-2700 MHz	Y5	13-14	(2x) 4.3-10 Female
1695-2700 MHz	Y6	15-16	(2x) 4.3-10 Female
3300-4200 MHz	P1	17-18	(2x) 4.3-10 Female
3300-4200 MHz	P2	19-20	(2x) 4.3-10 Female
5150-5925 MHz	O1	21-22	(2x) 4.3-10 Female
5150-5925 MHz	O2	23-24	(2x) 4.310 Female



The illustration is not shown to scale.

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BOTTOM VIEW - LABELING

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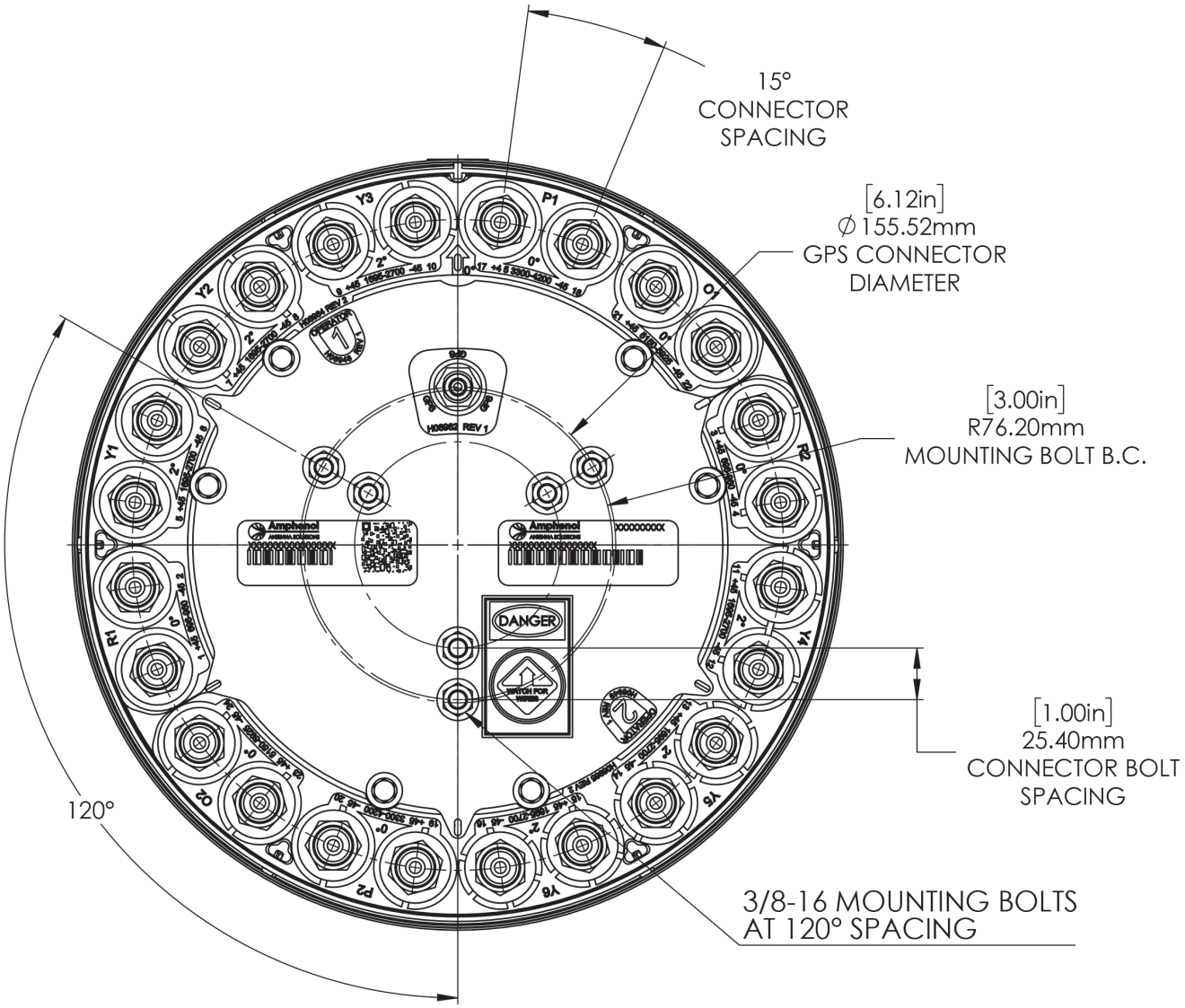
BOTTOM VIEW - CONNECTOR DIAGRAM



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 & OPERATING FREQUENCY				PATTERN TYPE	AZIMUTH BEAMWIDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
2C	6U	4M		T	360	X	12	F	wxy	s	4	BK BR
(2x) 696-960	(6x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925	Tri-Sector	360°	XPOL	1.2 meters	Fixed Tilt	These letters are place-holders for fixed tilt options. Refer to Electrical Specifications for available tilt options.	4.3-10 Connector	4th generation enhanced 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				MODEL NUMBER
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	
Grey RAL 7035	0°	2°	0°	0°	2C6U4MT360X12F020s4
	0°	4°	0°	0°	2C6U4MT360X12F040s4
	0°	6°	0°	0°	2C6U4MT360X12F060s4
	0°	Y1, Y3, Y4, Y6=2°; Y2, Y5=6°	0°	0°	2C6U4MT360X12FAAAs4
Brown RAL 8022	0°	2°	0°	0°	2C6U4MT360X12F020s4BR
	0°	4°	0°	0°	2C6U4MT360X12F040s4BR
	0°	6°	0°	0°	2C6U4MT360X12F060s4BR
	0°	Y1, Y3, Y4, Y6=2°; Y2, Y5=6°	0°	0°	2C6U4MT360X12FAAAs4BR
Black RAL 9011	0°	2°	0°	0°	2C6U4MT360X12F020s4BK
	0°	4°	0°	0°	2C6U4MT360X12F040s4BK
	0°	6°	0°	0°	2C6U4MT360X12F060s4BK
	0°	Y1, Y3, Y4, Y6=2°; Y2, Y5=6°	0°	0°	2C6U4MT360X12FAAAs4BK

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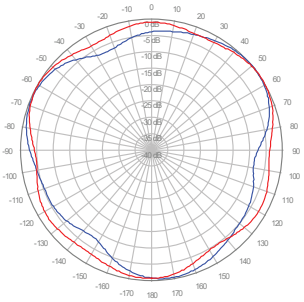
750 MHz

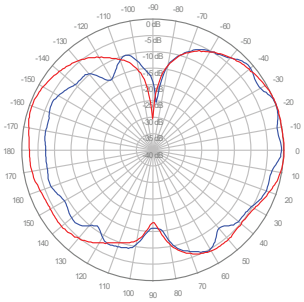
850 MHz

R1, 0° TILT

+45°

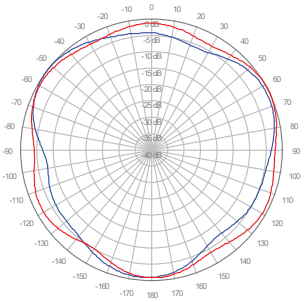


Azimuth



Elevation

-45°



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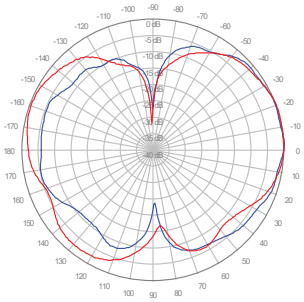
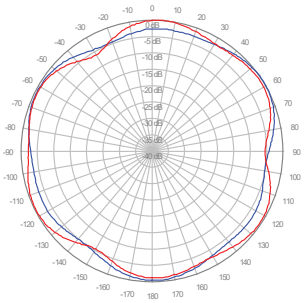


Elevation

R2, 0° TILT

+45°



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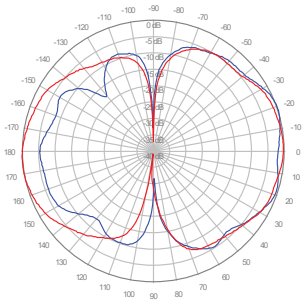
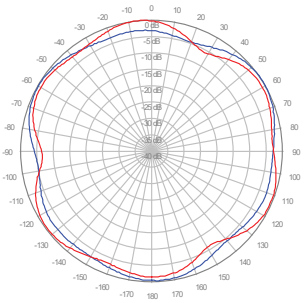


Elevation

-45°



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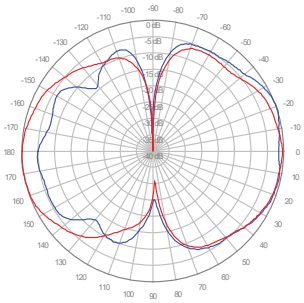

Elevation

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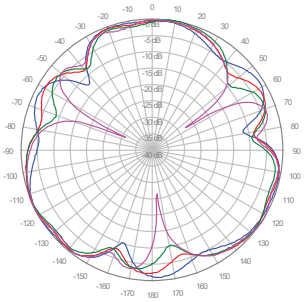
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 2° TILT

+45°



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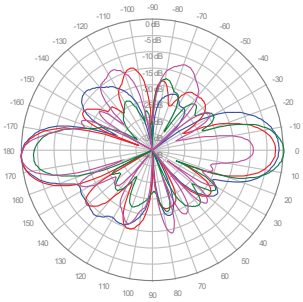
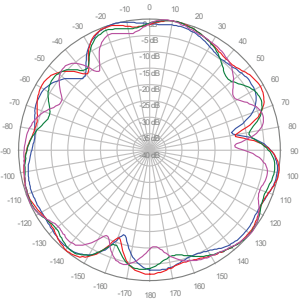


Elevation

-45°



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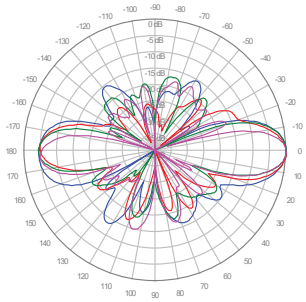
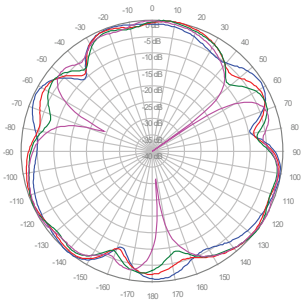


Elevation

Y2, 2° TILT

+45°



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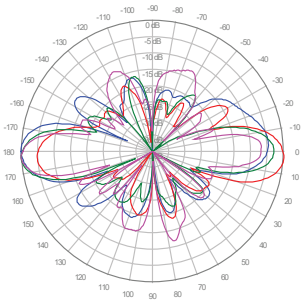
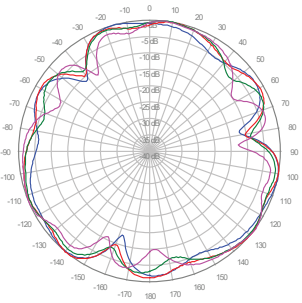


Elevation

-45°



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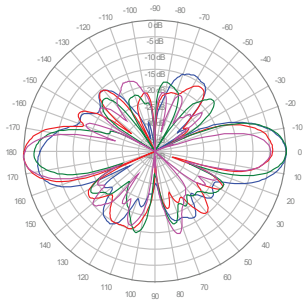
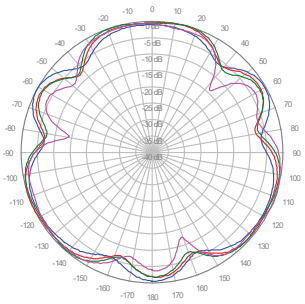


Elevation

Y3, 2° TILT

+45°



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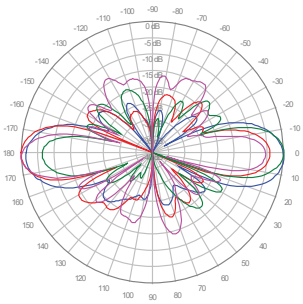
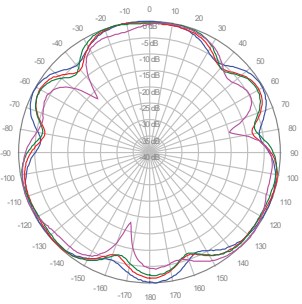


Elevation

-45°



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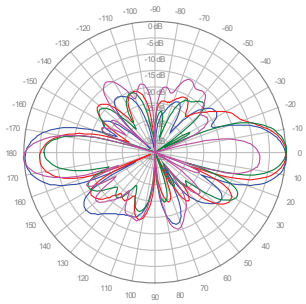
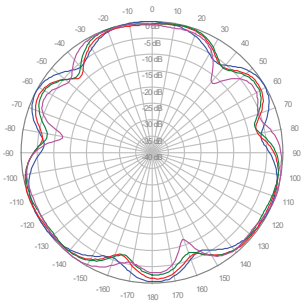


Elevation

Y4, 2° TILT

+45°



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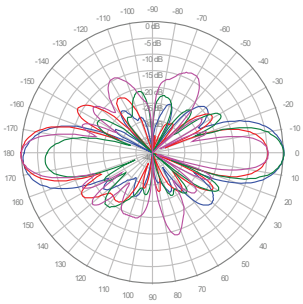
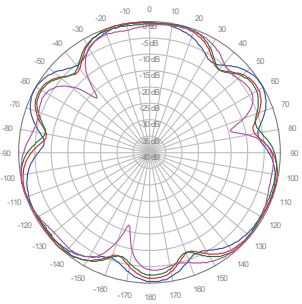


Elevation

-45°



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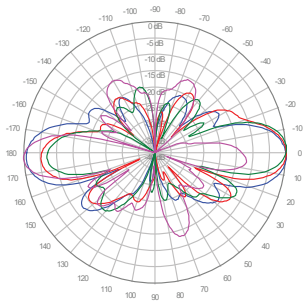

Elevation

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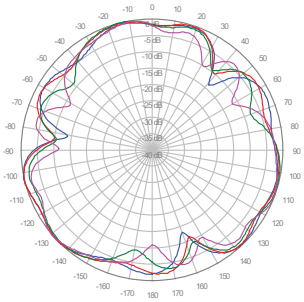
2C6U4MT360X12Fwxys4

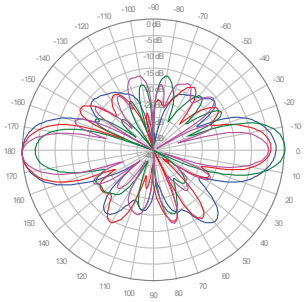
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y5, 2° TILT

+45°

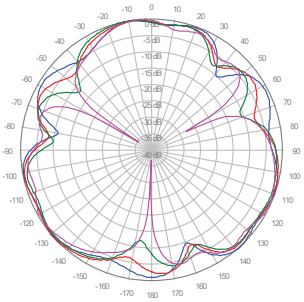


Azimuth

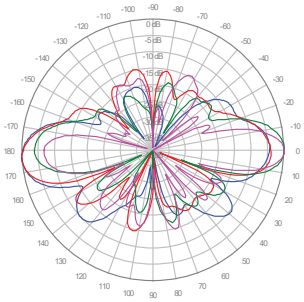


Elevation

-45°



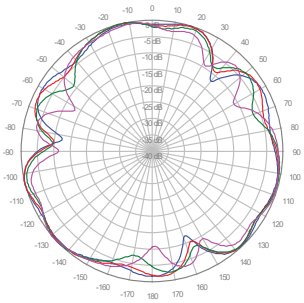
Azimuth



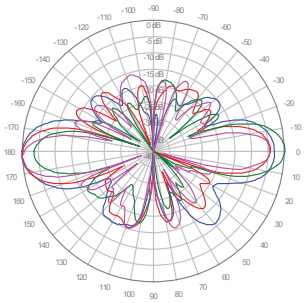
Elevation

Y6, 2° TILT

+45°

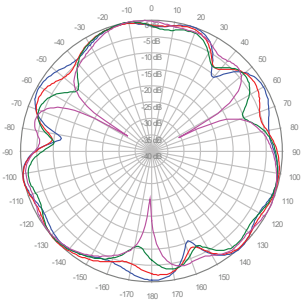


Azimuth

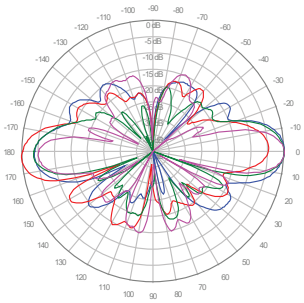


Elevation

-45°



Azimuth



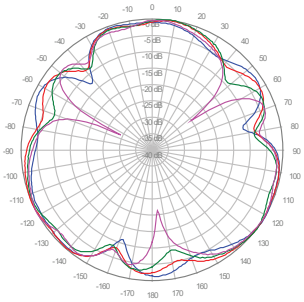
Elevation

2C6U4MT360X12Fwxys4

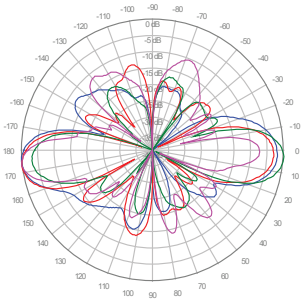
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 4° TILT

+45°

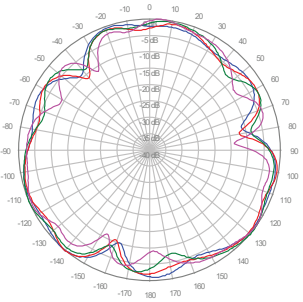


Azimuth

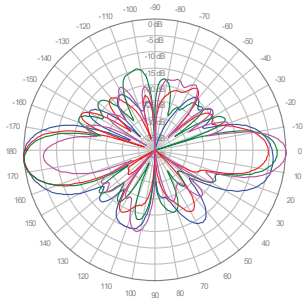


Elevation

-45°



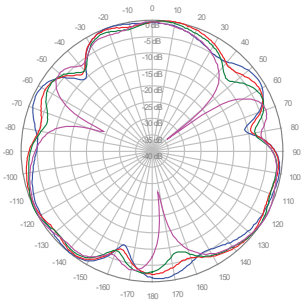
Azimuth



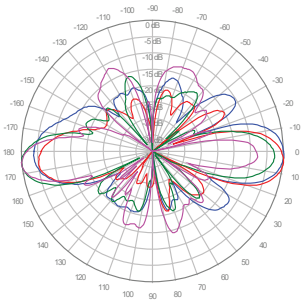
Elevation

Y2, 4° TILT

+45°

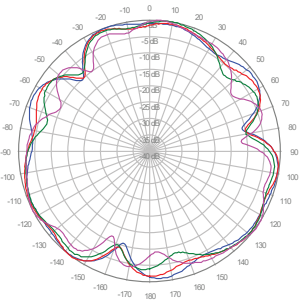


Azimuth

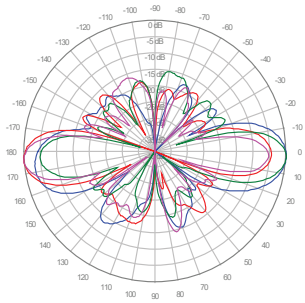


Elevation

-45°



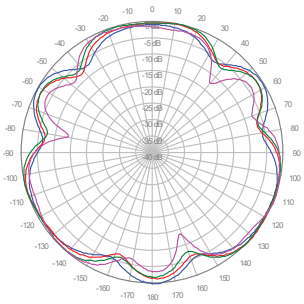
Azimuth



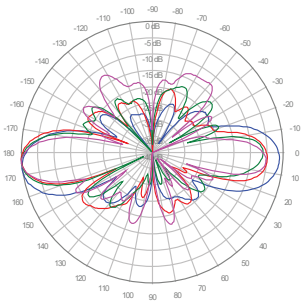
Elevation

Y3, 4° TILT

+45°

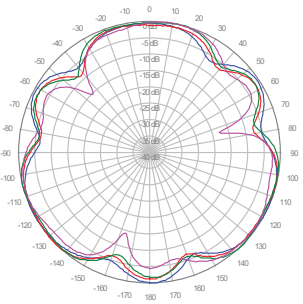


Azimuth

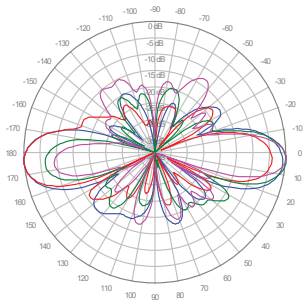


Elevation

-45°



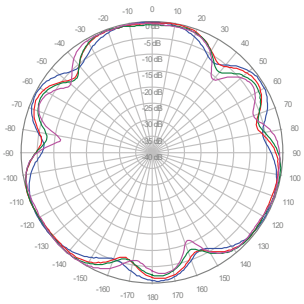
Azimuth



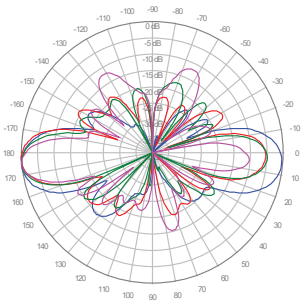
Elevation

Y4, 4° TILT

+45°

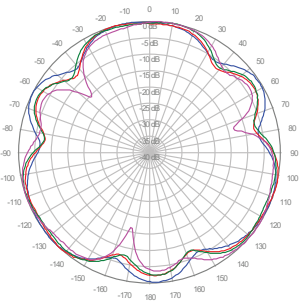


Azimuth

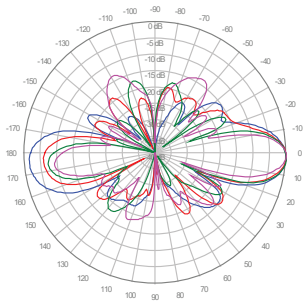


Elevation

-45°



Azimuth



Elevation

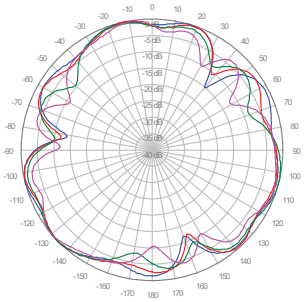
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

2C6U4MT360X12Fwxys4

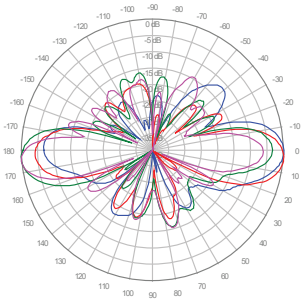
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y5, 4° TILT

+45°

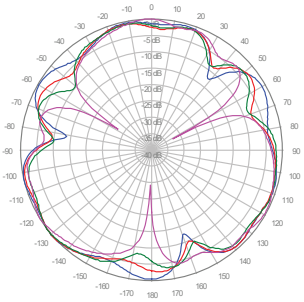


Azimuth

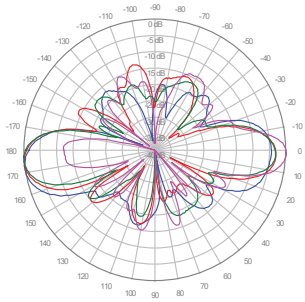


Elevation

-45°



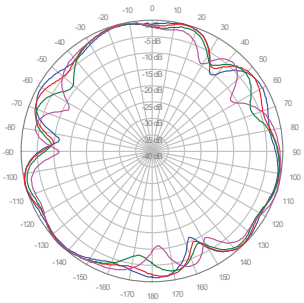
Azimuth



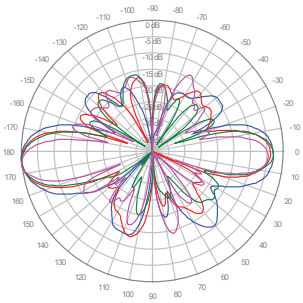
Elevation

Y6, 4° TILT

+45°

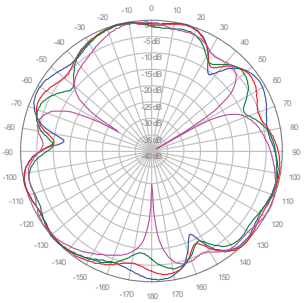


Azimuth

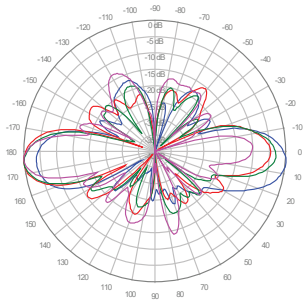


Elevation

-45°



Azimuth



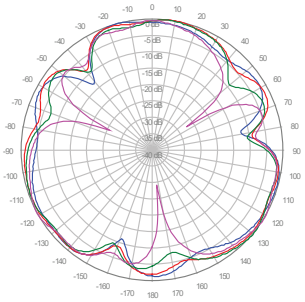
Elevation

2C6U4MT360X12Fwxys4

1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 6° TILT

+45°



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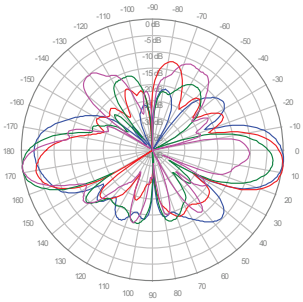
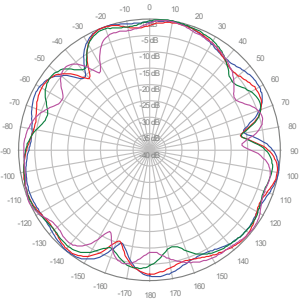


Elevation

-45°



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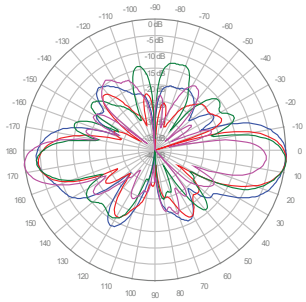
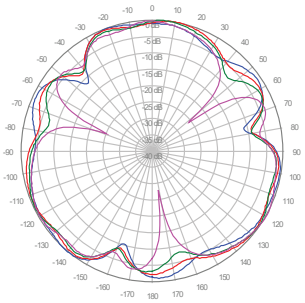


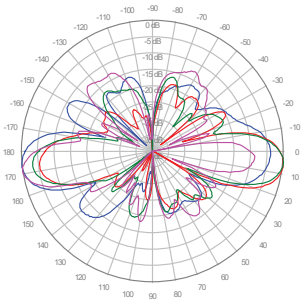
Elevation

Y2, 6° TILT

+45°

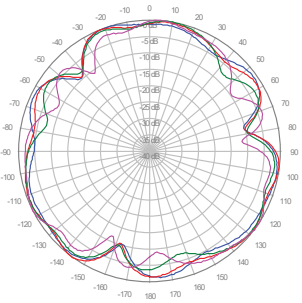


Azimuth

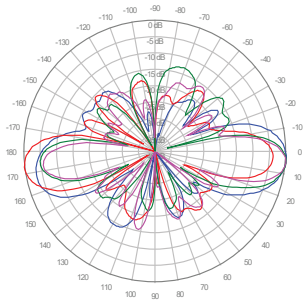


Elevation

-45°



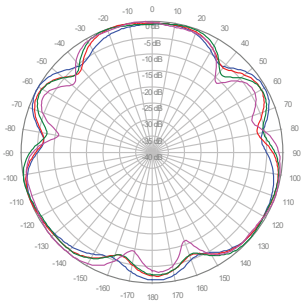
Azimuth



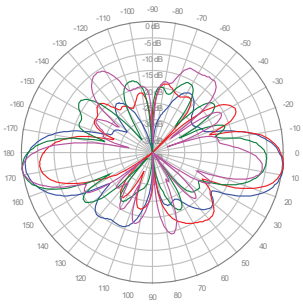
Elevation

Y3, 6° TILT

+45°

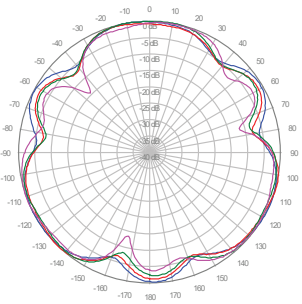


Azimuth

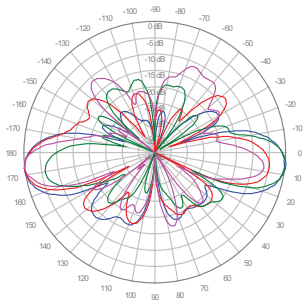


Elevation

-45°



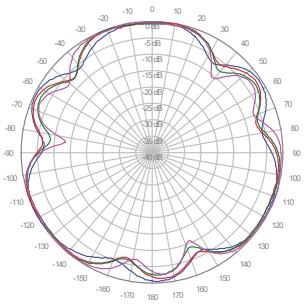
Azimuth



Elevation

Y4, 6° TILT

+45°



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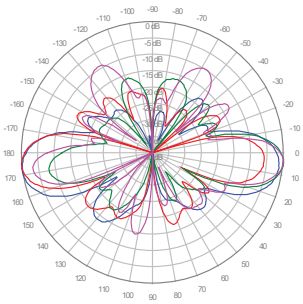
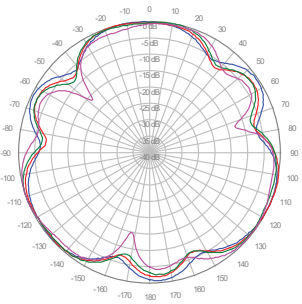
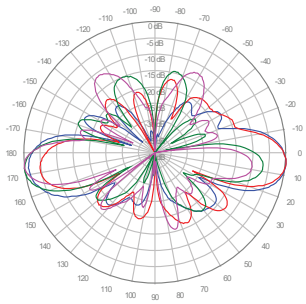


Elevation

-45°



Azimuth



Elevation

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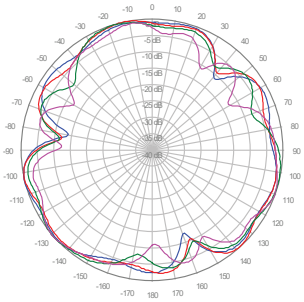
2C6U4MT360X12Fwxys4

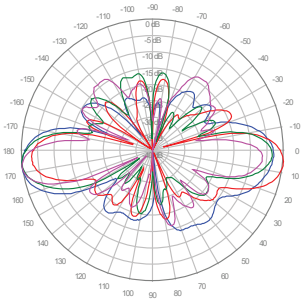
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y5, 6° TILT

+45°

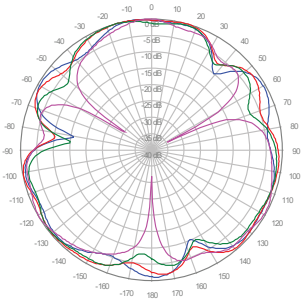


Azimuth

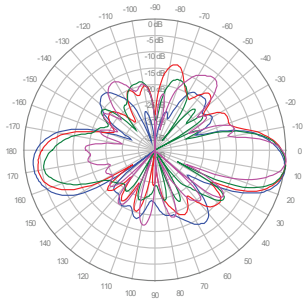


Elevation

-45°



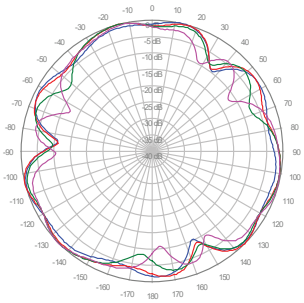
Azimuth



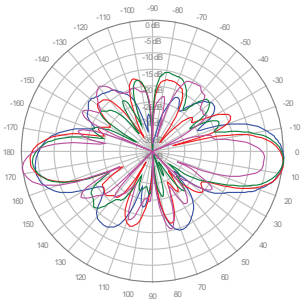
Elevation

Y6, 6° TILT

+45°

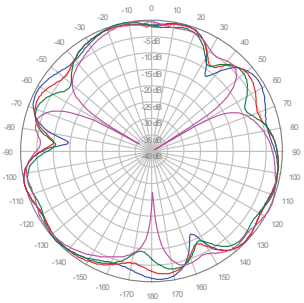


Azimuth

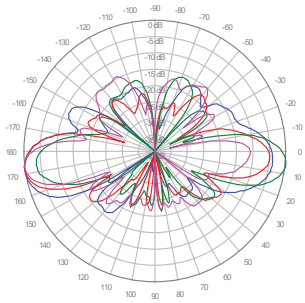


Elevation

-45°



Azimuth

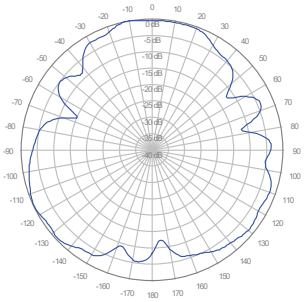


Elevation

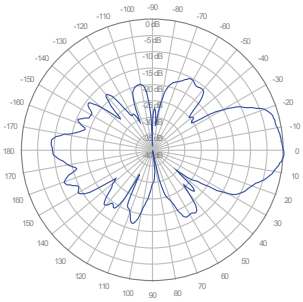
2C6U4MT360X12Fwxys4

P1, 0° TILT

+45°

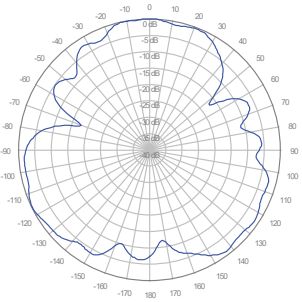


Azimuth (3600 MHz)

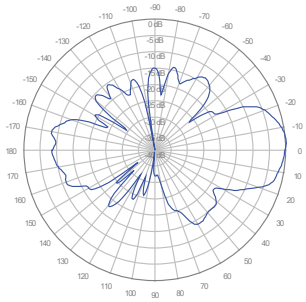


Elevation (3600 MHz)

-45°



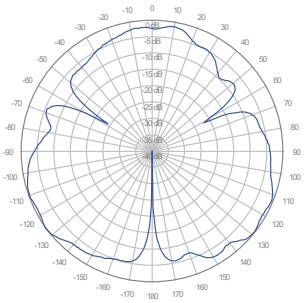
Azimuth (3600 MHz)



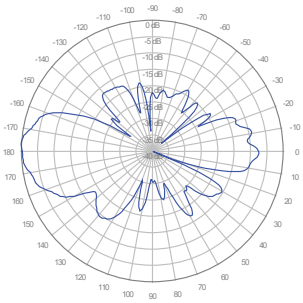
Elevation (3600 MHz)

P2, 0° TILT

+45°

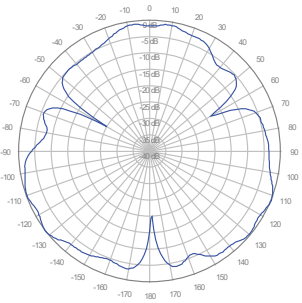


Azimuth (3600 MHz)

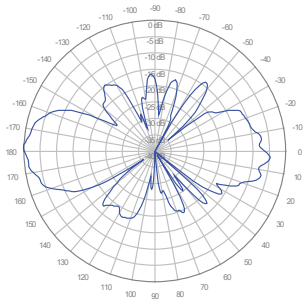


Elevation (3600 MHz)

-45°



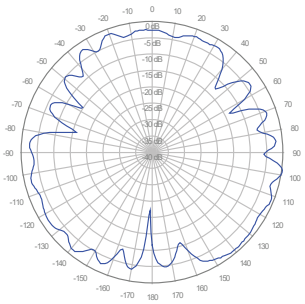
Azimuth (3600 MHz)



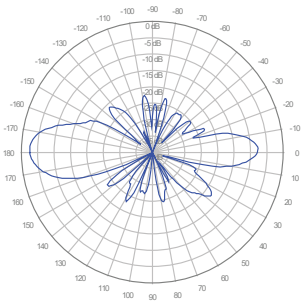
Elevation (3600 MHz)

O1, 0° TILT

+45°

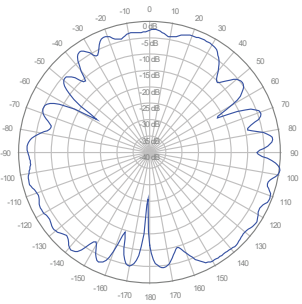


Azimuth (5600 MHz)

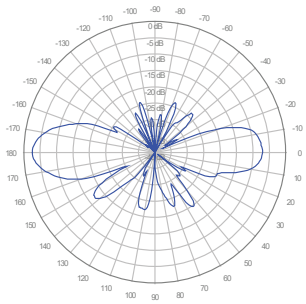


Elevation (5600 MHz)

-45°



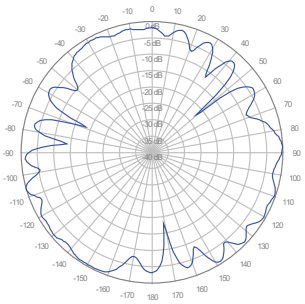
Azimuth (5600 MHz)



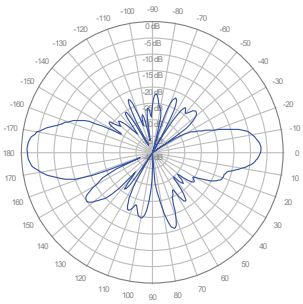
Elevation (5600 MHz)

O2, 0° TILT

+45°

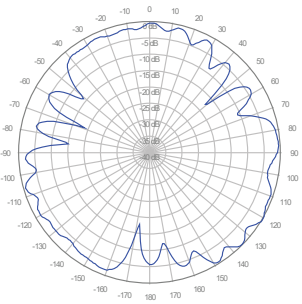


Azimuth (5600 MHz)

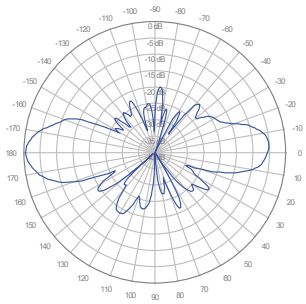


Elevation (5600 MHz)

-45°



Azimuth (5600 MHz)



Elevation (5600 MHz)