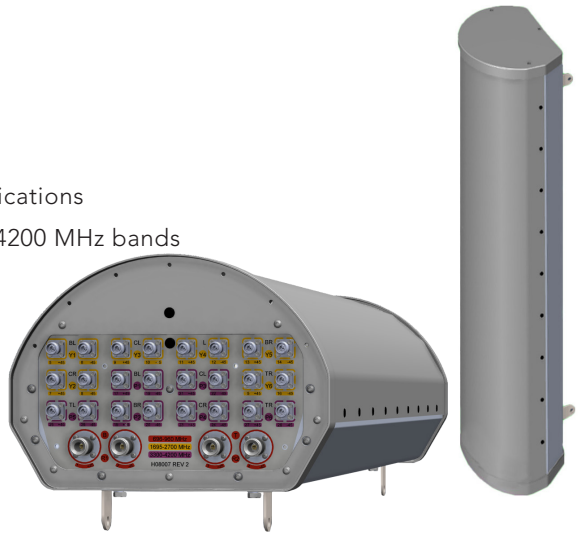
Amphenol ANTENNA SOLUTIONS

28-Port Panel Antenna

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

65° | 48.0 in | FIXED TILT

2C6U6VX065X12Fwxyc5



Features

- Unique high port count panel antenna for 4G/5G small cell applications
- 28 total connectors to service the 696-960, 1695-2700 and 3300-4200 MHz bands
- Ideal for multi-carrier or 4x4 MIMO deployments
- Fixed tilt options

PRODUCT OVERVIEW				
	Frequency Range (MHz)	(2x) 696-960	(6x) 1695-2700	(6x) 3300-4200
	Array	R1, R2	Y1, Y2, Y3 Y4, Y5, Y6	P1, P2, P3 P4, P5, P6
	Connector	4 PORTS	12 PORTS	12 PORTS
	Polarization	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	65°	65°	65°
	Electrical Downtilt	0°	2°, 4°, 6°	2°, 4°, 6°
	Maximum Continuous Power Per Port @ 50° C (122° F)	200 WATTS	100 WATTS	100 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	3200 WATTS		
	Total Connector Count	28 PORTS		
	Connector Type	4.3-10 FEMALE	2.2-5 FEMALE	2.2-5 FEMALE
	Dimensions	1219 x 356 x 254 mm (48.0 x 14.0 x 10.0)		
	Radome Color Options	GREY		

ELECTRICAL SPECIFICATIONS

			R1 R2	
Frequency Range		MHz	(2x) 696-960	
Frequency Sub-Range		MHz	696-806	806-960
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	10.6 ± 0.8	10.5 ± 0.7
	MAX	dBi	11.4	11.2
Azimuth Beamwidth (3 dB)		degrees	83.9° ± 5.5°	82.6° ± 7.8°
Elevation Beamwidth (3 dB)		degrees	34.1° ± 3.7°	28.3° ± 4.1°
Electrical Downtilt		degrees	(w) 0°	
Impedance		Ohms	50Ω	
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 same band; > 30 different band	

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.

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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	10.8 ± 0.7	11.0 ± 0.7	10.7 ± 0.9	11.0 ± 0.8
	MAX	dBi	11.5	11.7	11.6	11.8
Azimuth Beamwidth (3 dB)		degrees	83.6° ± 7.4°	82.9° ± 9.9°	79.1° ± 13.0°	79.3° ± 11.6°
Elevation Beamwidth (3 dB)		degrees	25.8° ± 2.8°	24.6° ± 2.3°	23.2° ± 3.1°	21.0° ± 2.4°
Electrical Downtilt		degrees	(x) 2°, 4°, 6°			
Impedance		Ohms	50Ω			
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 same band; > 30 different band			

ELECTRICAL SPECIFICATIONS — P1 P2 P3 P4 P5 P6

Frequency Range		MHz	(6x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(6x) ±45°		
Gain	BASTA	dBi	12.4 ± 1.0	12.4 ± 1.1	13.3 ± 1.3
	MAX	dBi	13.4	13.5	14.6
Azimuth Beamwidth (3 dB)		degrees	61.2° ± 11.4	69.3° ± 7.1	70.2° ±13.5
Elevation Beamwidth (3 dB)		degrees	20.5° ± 3.3	19.8° ± 4.4	17.5° ± 3.0
Electrical Downtilt		degrees	(y) 2°, 4°, 6°		
Impedance		Ohms	50Ω		
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 same band; > 30 different band		

2C6U6VX065X12Fwxyc5

MECHANICAL SPECIFICATIONS

Antenna	Length		mm (in)	1219 (48.0)
	Width		mm (in)	356 (14.0)
	Depth		mm (in)	254 (10.0)
Net Weight - Antenna Only			kg (lbs)	10.4 (23)
Windload		Calculation	km/h (mph)	160 (100)
		Frontal	N (lbf)	480 (108)
		Side	N (lbf)	285 (64)
Survival Wind Speed			km/h (mph)	241 (150)
Connector		Type	---	4.3-10 Female (low band) and 2.2-5 Female (mid and high bands)
		Quantity	---	28
		Position	---	Bottom
Radome Color			---	Grey
Operating Temperature			degrees	-40 to +60 C (-40 to +140 F)
Lightning Protection (Grounding Type)			---	Direct Ground

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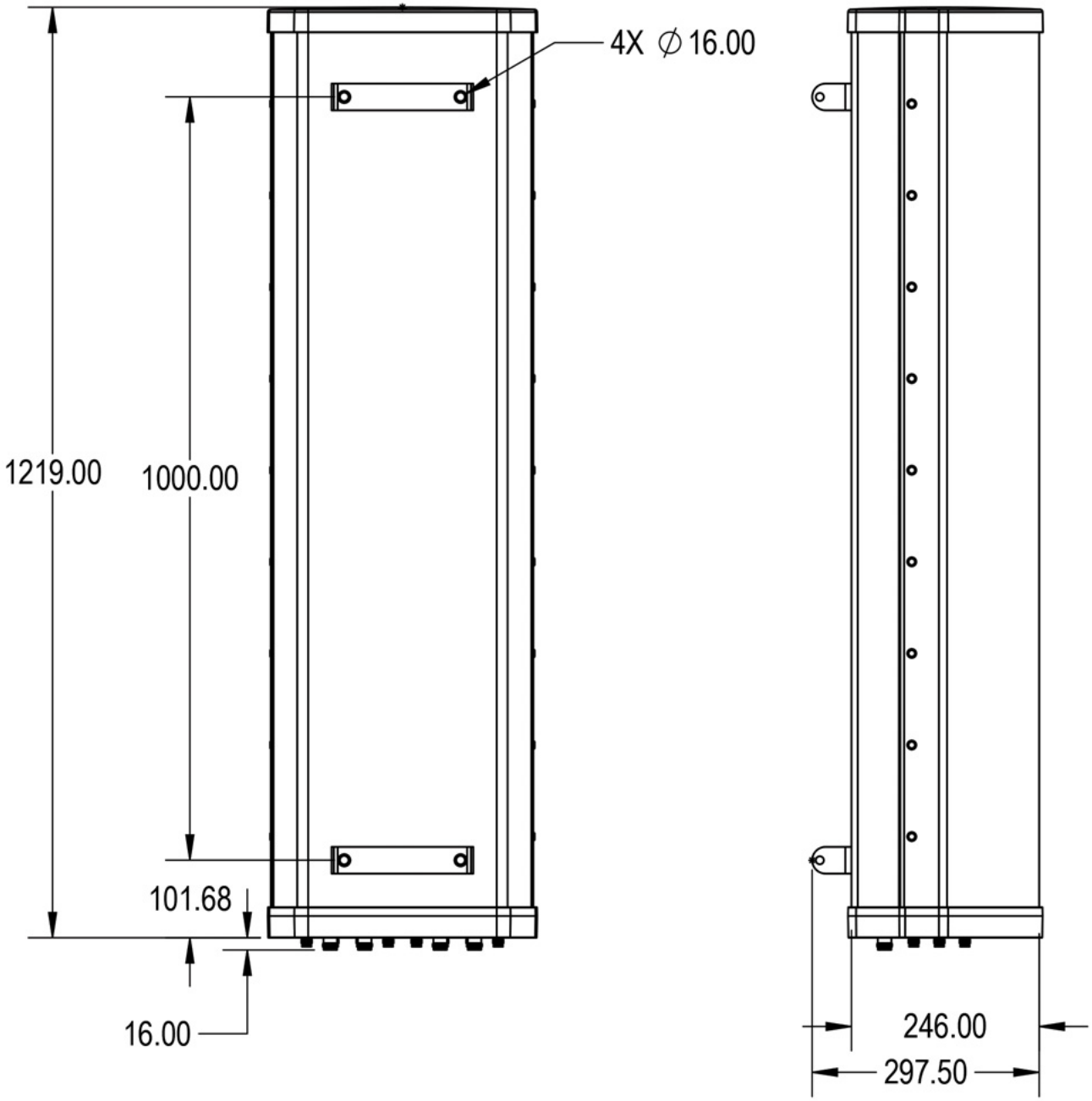

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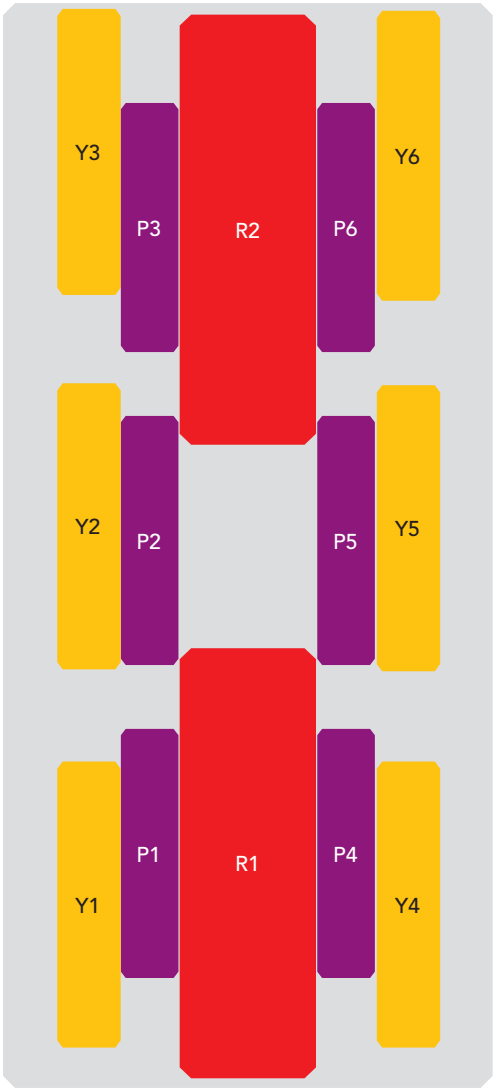
ARRAY LAYOUT Topology

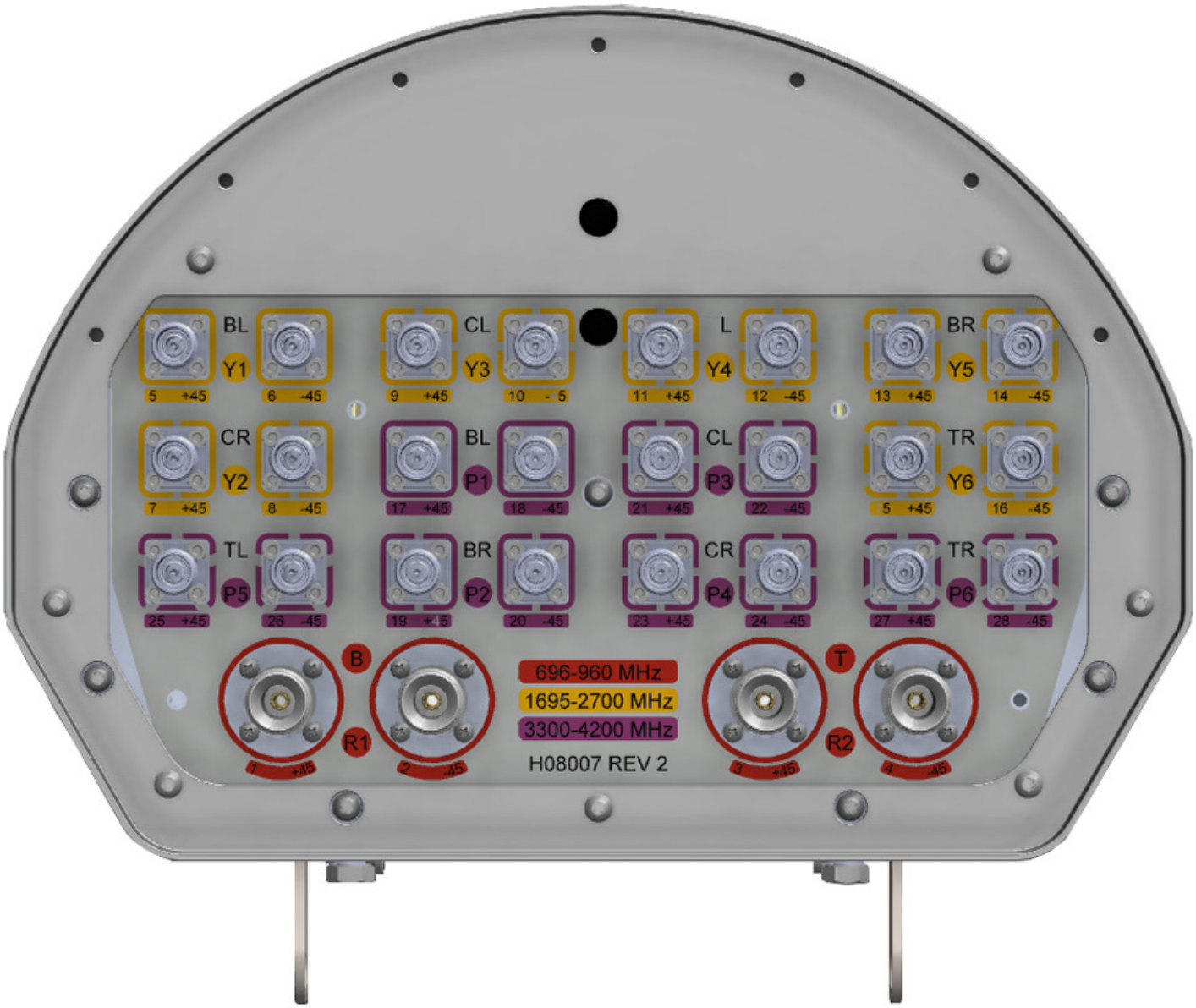
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	R1	1-2	(2x) 4.3-10 Female
696-960 MHz	R2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	Y1	5-6	(2x) 2.2-5 Female
1695-2700 MHz	Y2	7-8	(2x) 2.2-5 Female
1695-2700 MHz	Y3	9-10	(2x) 2.2-5 Female
1695-2700 MHz	Y4	11-12	(2x) 2.2-5 Female
1695-2700 MHz	Y5	13-14	(2x) 2.2-5 Female
1695-2700 MHz	Y6	15-16	(2x) 2.2-5 Female
3300-4200 MHz	P1	17-18	(2x) 2.2-5 Female
3300-4200 MHz	P2	19-20	(2x) 2.2-5 Female
3300-4200 MHz	P3	21-22	(2x) 2.2-5 Female
3300-4200 MHz	P4	23-24	(2x) 2.2-5 Female
3300-4200 MHz	P5	25-26	(2x) 2.2-5 Female
3300-4200 MHz	P6	27-28	(2x) 2.2-5 Female



The illustration is not shown to scale.

2C6U6VX065X12Fwxyc5

BOTTOM VIEW - LABELING



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.

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.

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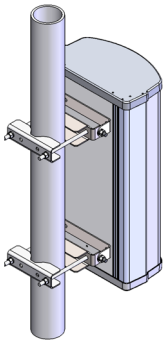
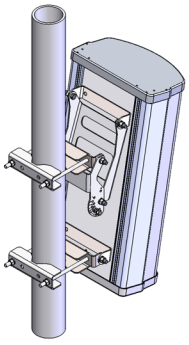
MOUNTING KITS Select from the following mounting options when ordering.

MODEL NUMBER	DESCRIPTION	FITS PIPE DIAMETER	WEIGHT
MKS09P01 	2-POINT MOUNTING BRACKET KIT	50-115 mm (2.0-4.5 in)	2.9 kg (6 lbs)
MKS09T01 	2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT	50-115 mm (2.0-4.5 in)	4.5 kg (10 lbs)

The antennas shown in the mounting kit illustrations above are generic representations and may not resemble the antenna described within this data sheet.

2C6U6VX065X12Fwxyc5

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

NUMBER OF BANDS and OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA-TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	ORDERING OPTION
2C	6U	6V	X	065	X	12	F	wxy	c	5	-P -T
(2x) 696-960	(6x) 1695-2700	(6x) 3300-4200	Standard Panel Antenna	65°	XPOL	1.2 meters	Fixed Tilt	These letters are placehold-ers for fixed tilt options. Refer to Electrical Specifications for available tilt options.	This antenna features a combination of 4.3-10 connectors (low band) and 2.2-5 connectors (mid and high bands)	5th generation enhanced mechanical package	To order the antenna and mounting kit together as one line item, add a -P for the 2-POINT MOUNTING BRACKET KIT (MKS09P01) or a -T for the 2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT (MKS09T01) to the end of the model number. If -P or -T is not added, the bracket kit can be added as a separate line item, or the antenna shipped without a bracket. Refer to the ordering options on the following page for further detail.

2C6U6VX065X12Fwxyc5

ORDERING OPTIONS Select from the following ordering options

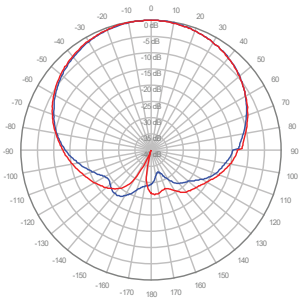
SELECT MOUNTING KIT	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ORDER MODEL NUMBER
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	
ANTENNA ONLY - NO MOUNTING KIT	0°	2°	2°	2C6U6VX065X12F022c5
	0°	4°	4°	2C6U6VX065X12F044c5
	0°	6°	6°	2C6U6VX065X12F066c5
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 4°	2°	2C6U6VX065X12F0A2c5
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 6°	2°	2C6U6VX065X12F0B2c5
	0°	Y1, Y2 = 4°; Y3, Y4, Y5, Y6 = 6°	2°	2C6U6VX065X12F0C2c5
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 4°	4°	2C6U6VX065X12F0A4c5
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 6°	4°	2C6U6VX065X12F0B4c5
	0°	Y1, Y2 = 4°; Y3, Y4, Y5, Y6 = 6°	4°	2C6U6VX065X12F0C4c5
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 4°	6°	2C6U6VX065X12F0A6c5
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 6°	6°	2C6U6VX065X12F0B6c5
	0°	Y1, Y2 = 4°; Y3, Y4, Y5, Y6 = 6°	6°	2C6U6VX065X12F0C6c5
ANTENNA WITH **MKS09P01** MOUNTING KIT 2-Point Mounting Bracket Kit	0°	2°	2°	2C6U6VX065X12F022c5-P
	0°	4°	4°	2C6U6VX065X12F044c5-P
	0°	6°	6°	2C6U6VX065X12F066c5-P
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 4°	2°	2C6U6VX065X12F0A2c5-P
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 6°	2°	2C6U6VX065X12F0B2c5-P
	0°	Y1, Y2 = 4°; Y3, Y4, Y5, Y6 = 6°	2°	2C6U6VX065X12F0C2c5-P
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 4°	4°	2C6U6VX065X12F0A4c5-P
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 6°	4°	2C6U6VX065X12F0B4c5-P
	0°	Y1, Y2 = 4°; Y3, Y4, Y5, Y6 = 6°	4°	2C6U6VX065X12F0C4c5-P
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 4°	6°	2C6U6VX065X12F0A6c5-P
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 6°	6°	2C6U6VX065X12F0B6c5-P
	0°	Y1, Y2 = 4°; Y3, Y4, Y5, Y6 = 6°	6°	2C6U6VX065X12F0C6c5-P
ANTENNA WITH **MKS09T01** MOUNTING KIT 2-Point, Scissor Tilt, Mounting & Downtilt Bracket Kit	0°	2°	2°	2C6U6VX065X12F022c5-T
	0°	4°	4°	2C6U6VX065X12F044c5-T
	0°	6°	6°	2C6U6VX065X12F066c5-T
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 4°	2°	2C6U6VX065X12F0A2c5-T
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 6°	2°	2C6U6VX065X12F0B2c5-T
	0°	Y1, Y2 = 4°; Y3, Y4, Y5, Y6 = 6°	2°	2C6U6VX065X12F0C2c5-T
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 4°	4°	2C6U6VX065X12F0A4c5-T
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 6°	4°	2C6U6VX065X12F0B4c5-T
	0°	Y1, Y2 = 4°; Y3, Y4, Y5, Y6 = 6°	4°	2C6U6VX065X12F0C4c5-T
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 4°	6°	2C6U6VX065X12F0A6c5-T
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 6°	6°	2C6U6VX065X12F0B6c5-T
	0°	Y1, Y2 = 4°; Y3, Y4, Y5, Y6 = 6°	6°	2C6U6VX065X12F0C6c5-T

2C6U6VX065X12Fwxyc5

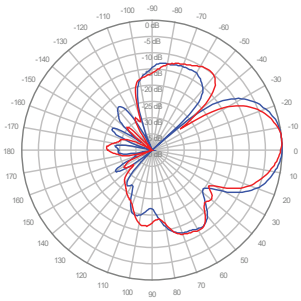
750 MHz
850 MHz

R1, 0° TILT

+45°

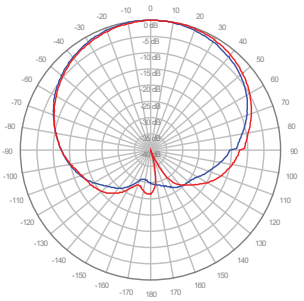


Azimuth



Elevation

-45°



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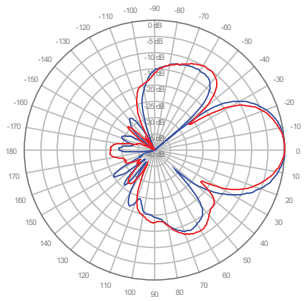
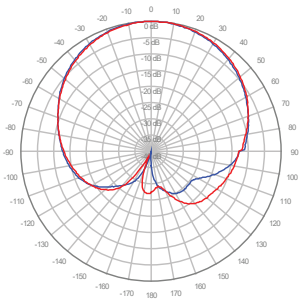


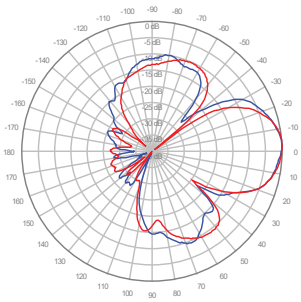
Elevation

R2, 0° TILT

+45°

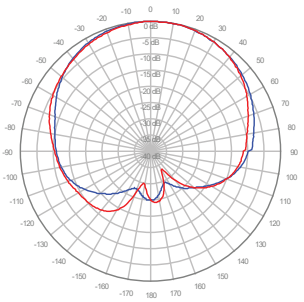


Azimuth



Elevation

-45°



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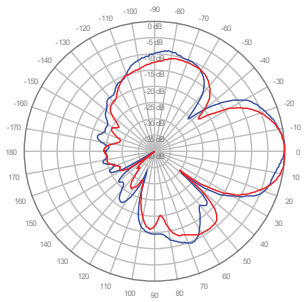


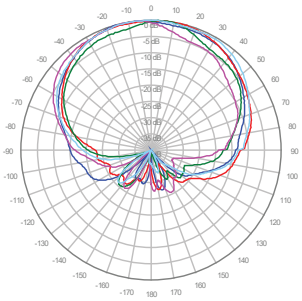
Elevation

2C6U6VX065X12Fwxyc5

1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 2° TILT

+45°



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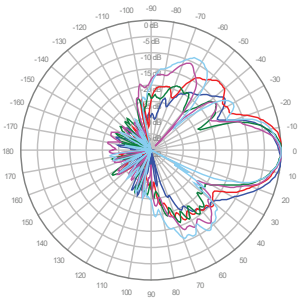
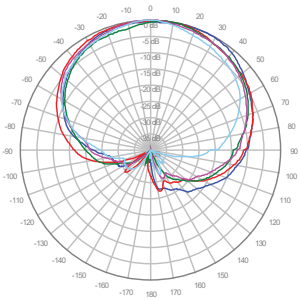


Elevation

-45°



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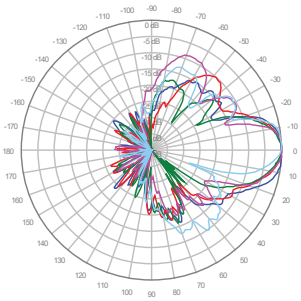
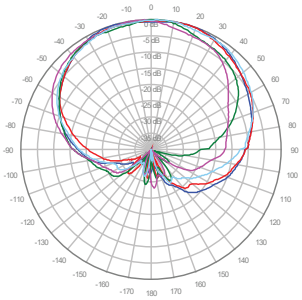


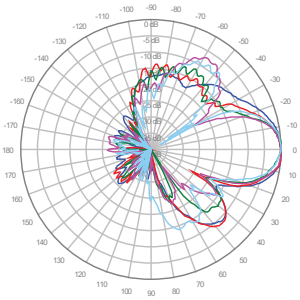
Elevation

Y2, 2° TILT

+45°

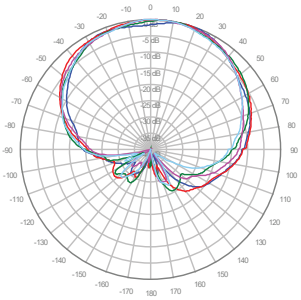


Azimuth



Elevation

-45°



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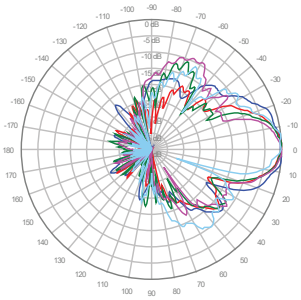
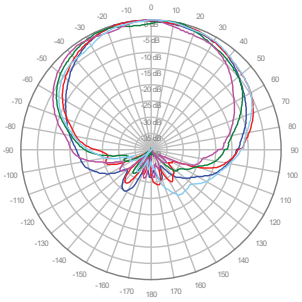


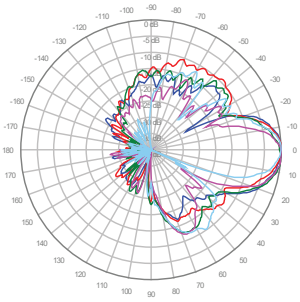
Elevation

Y3, 2° TILT

+45°

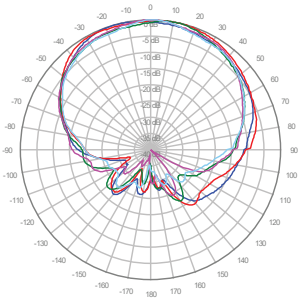


Azimuth

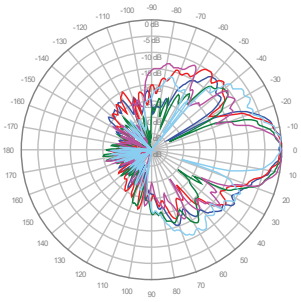


Elevation

-45°



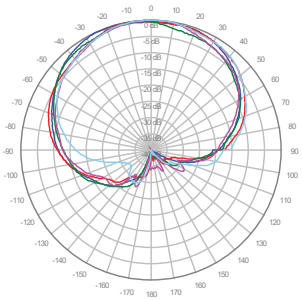
Azimuth



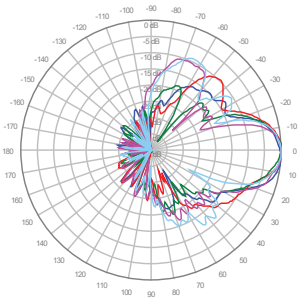
Elevation

Y4, 2° TILT

+45°

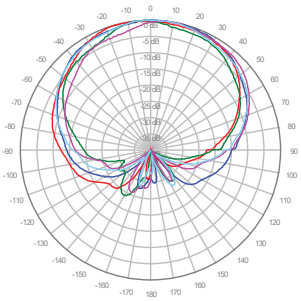


Azimuth

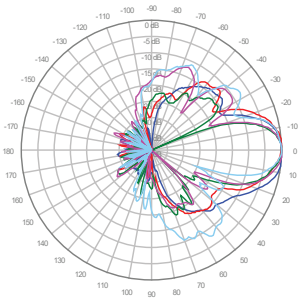


Elevation

-45°



Azimuth



Elevation

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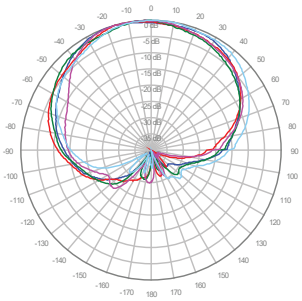
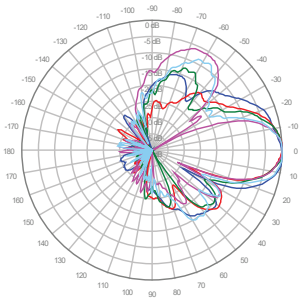
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y5, 2° TILT

+45°

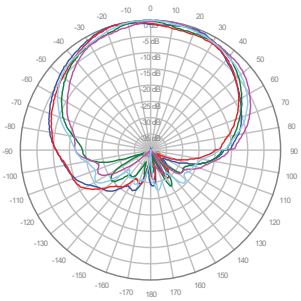


Azimuth



Elevation

-45°



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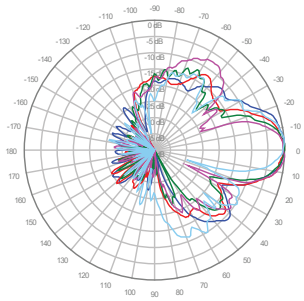
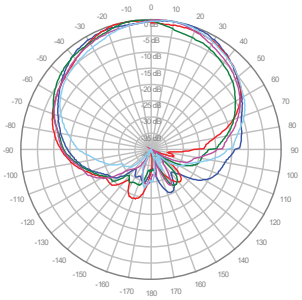


Elevation

Y6, 2° TILT

+45°



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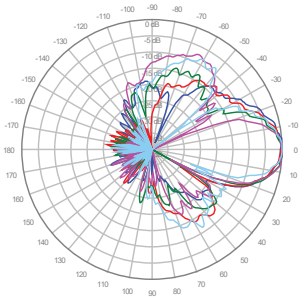
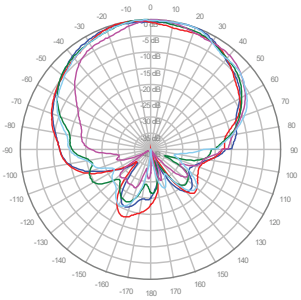


Elevation

-45°



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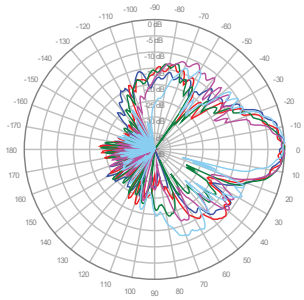

Elevation

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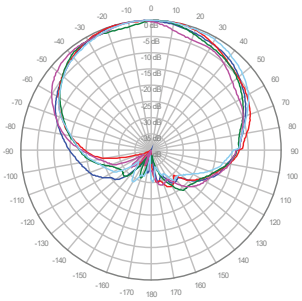
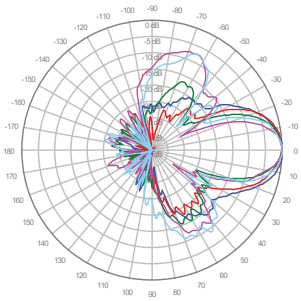
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 4° TILT

+45°

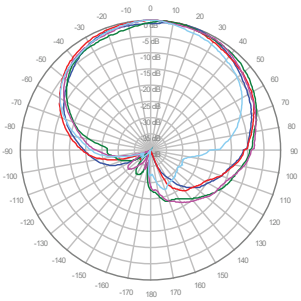


Azimuth

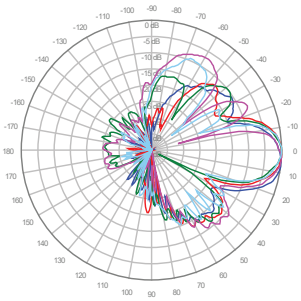


Elevation

-45°



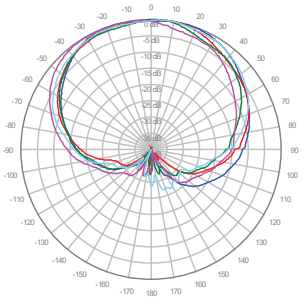
Azimuth



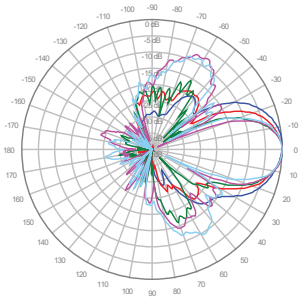
Elevation

Y2, 4° TILT

+45°

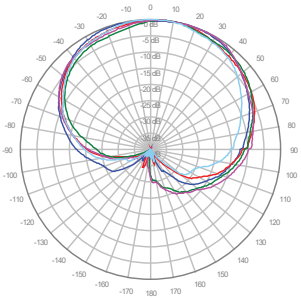


Azimuth

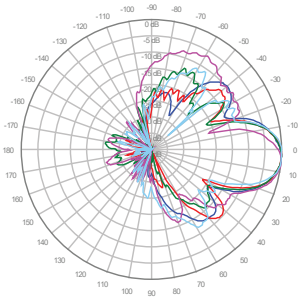


Elevation

-45°



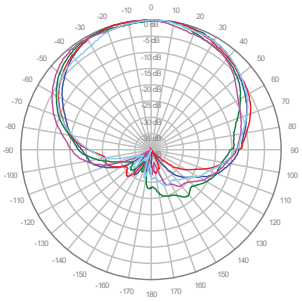
Azimuth



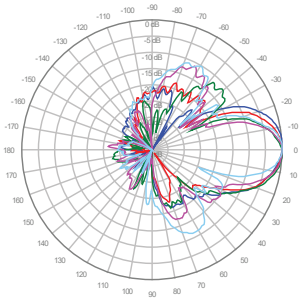
Elevation

Y3, 4° TILT

+45°

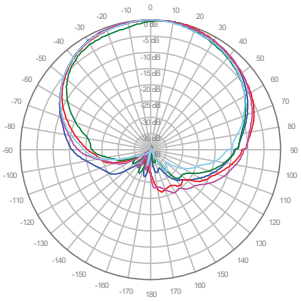


Azimuth

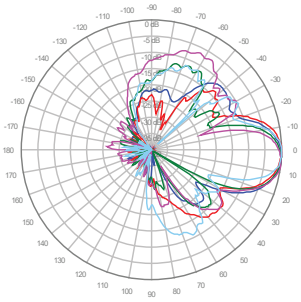


Elevation

-45°



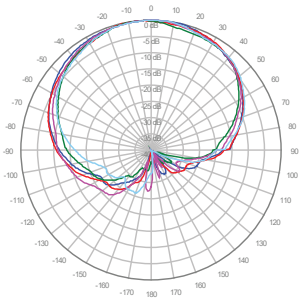
Azimuth



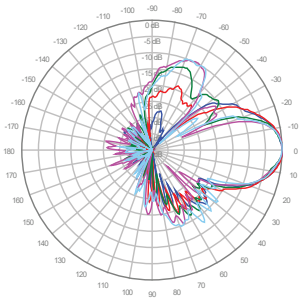
Elevation

Y4, 4° TILT

+45°

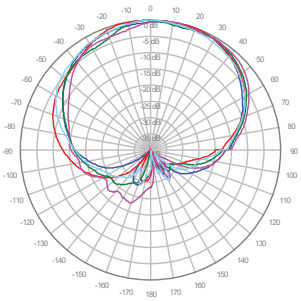


Azimuth

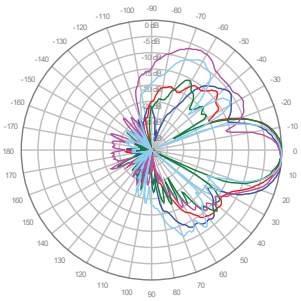


Elevation

-45°



Azimuth



Elevation

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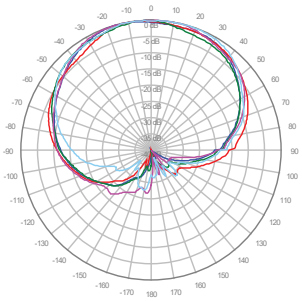
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y5, 4° TILT

+45°



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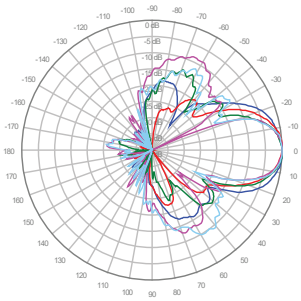
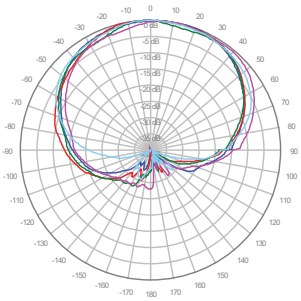
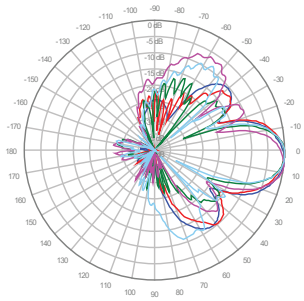


Elevation

-45°



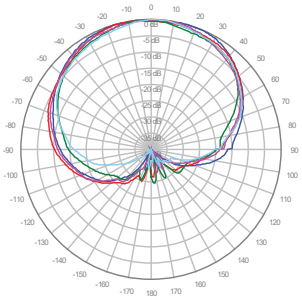
Azimuth



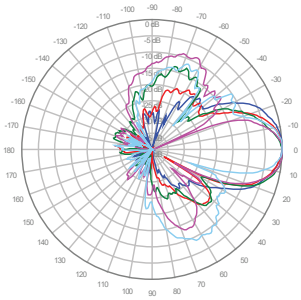
Elevation

Y6, 4° TILT

+45°

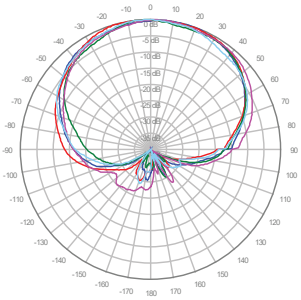


Azimuth

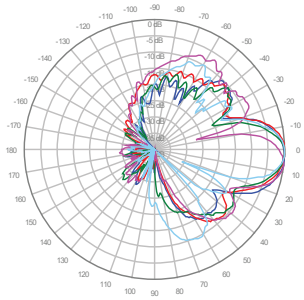


Elevation

-45°



Azimuth



Elevation

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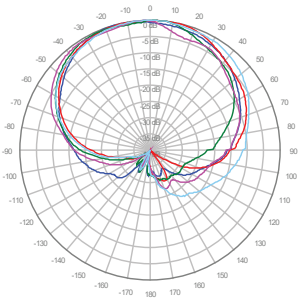
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 6° TILT

+45°



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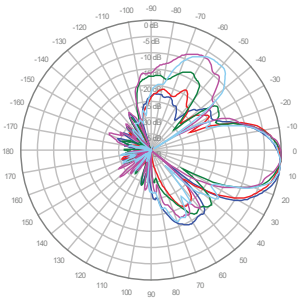
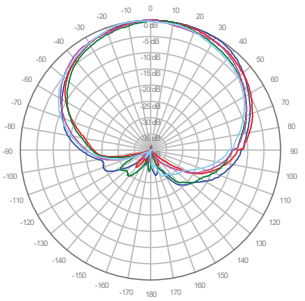
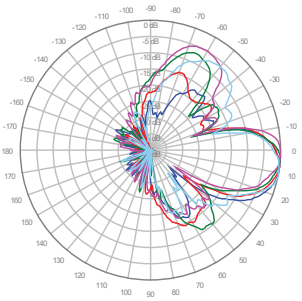


Elevation

-45°



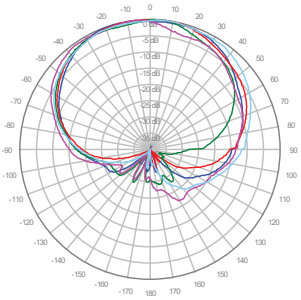
Azimuth



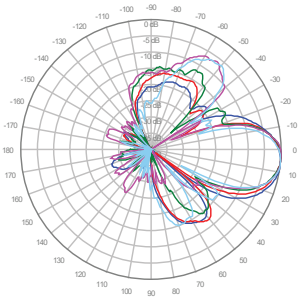
Elevation

Y2, 6° TILT

+45°

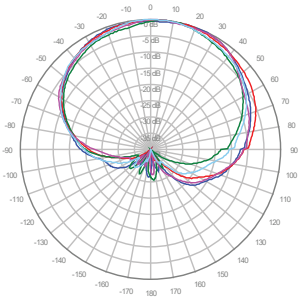


Azimuth



Elevation

-45°



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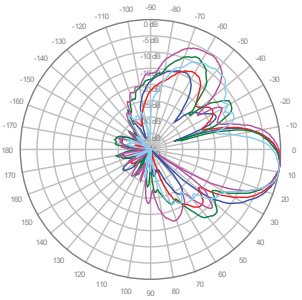
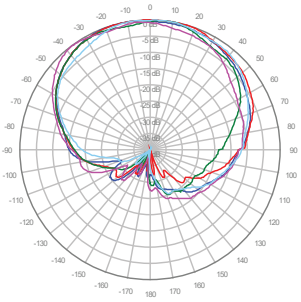


Elevation

Y3, 6° TILT

+45°



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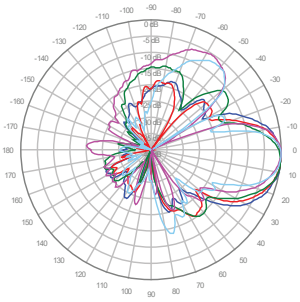
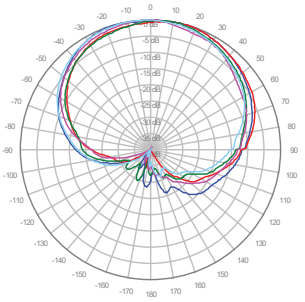
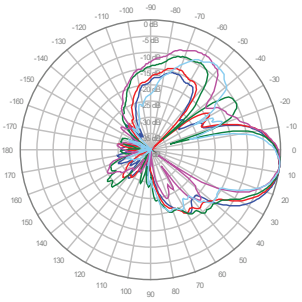


Elevation

-45°



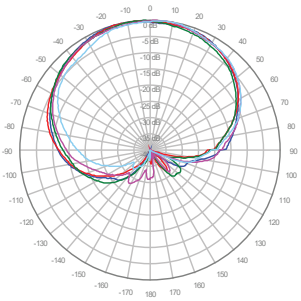
Azimuth



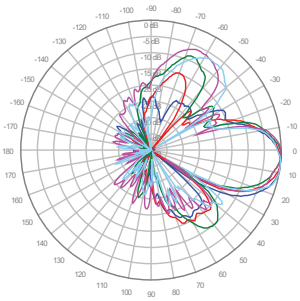
Elevation

Y4, 6° TILT

+45°

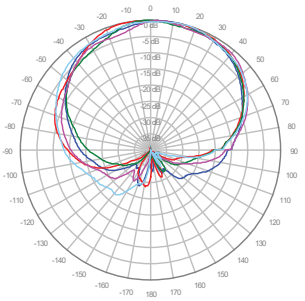


Azimuth

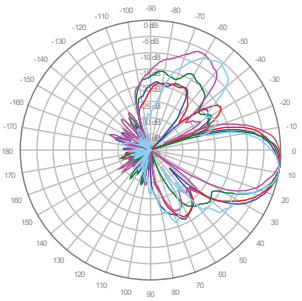


Elevation

-45°



Azimuth



Elevation

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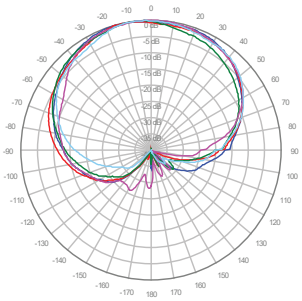
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y5, 6° TILT

+45°



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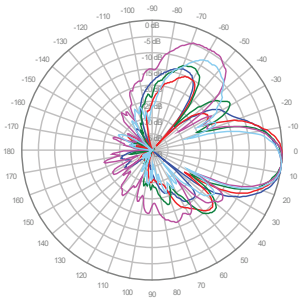
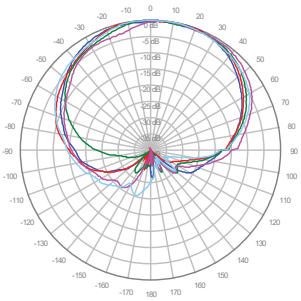
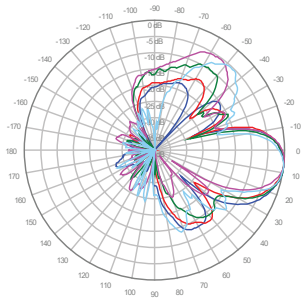


Elevation

-45°



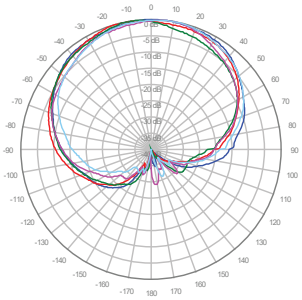
Azimuth



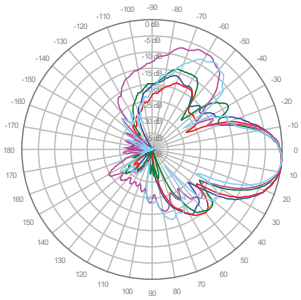
Elevation

Y6, 6° TILT

+45°

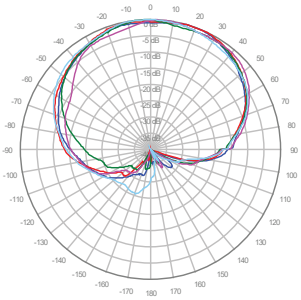


Azimuth

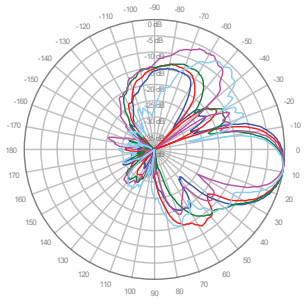


Elevation

-45°



Azimuth



Elevation

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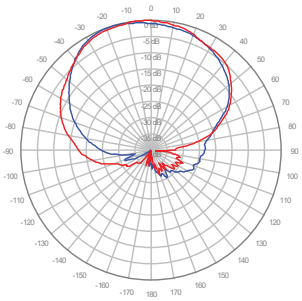
3600 MHz
4000 MHz

P1, 2° TILT

+45°



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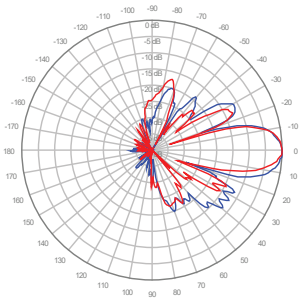
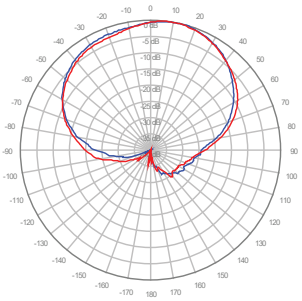
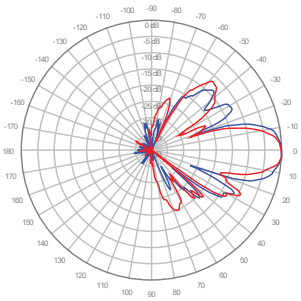


Elevation

-45°



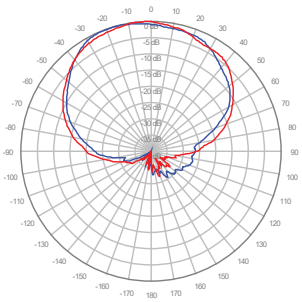
Azimuth



Elevation

P2, 2° TILT

+45°



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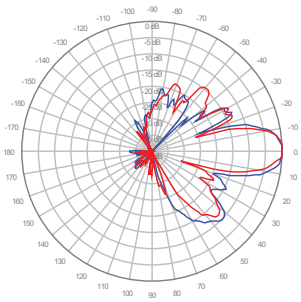
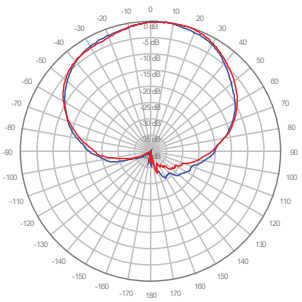
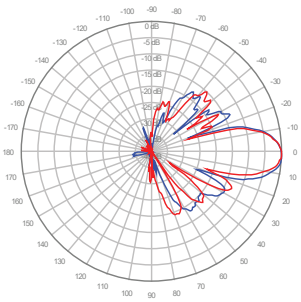


Elevation

-45°



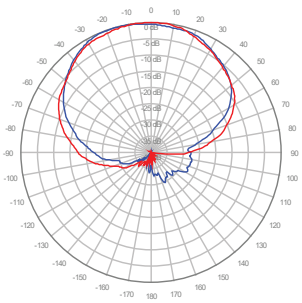
Azimuth



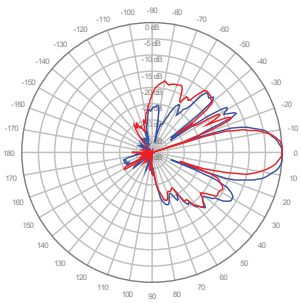
Elevation

P3, 2° TILT

+45°

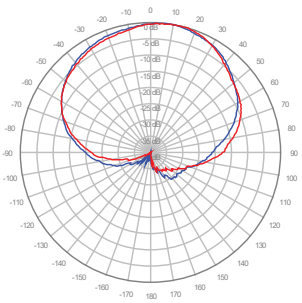


Azimuth

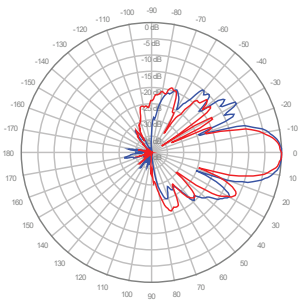


Elevation

-45°



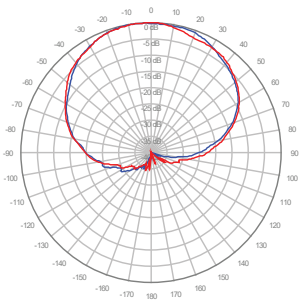
Azimuth



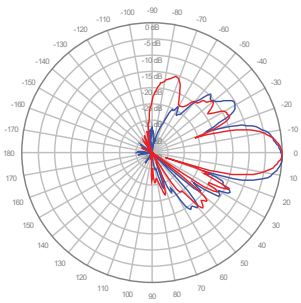
Elevation

P4, 2° TILT

+45°

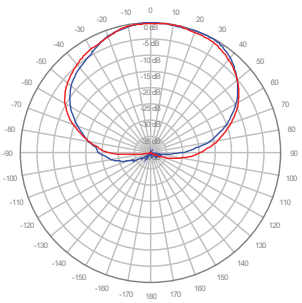


Azimuth

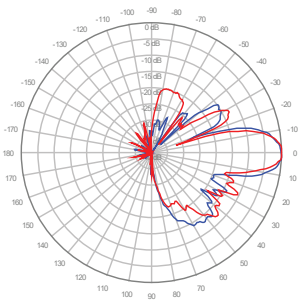


Elevation

-45°



Azimuth



Elevation

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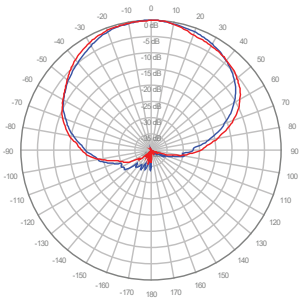
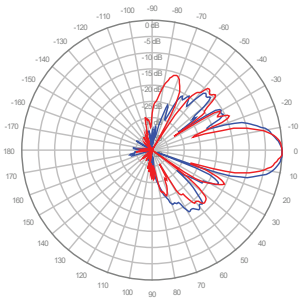
3600 MHz
4000 MHz

P5, 2° TILT

+45°

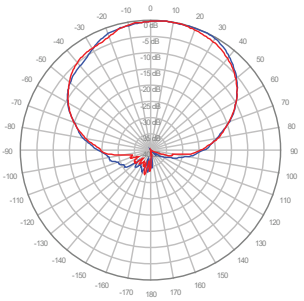


Azimuth

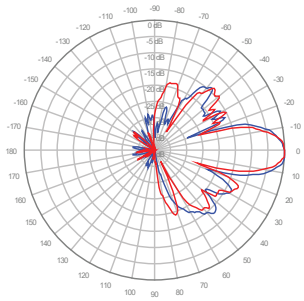


Elevation

-45°



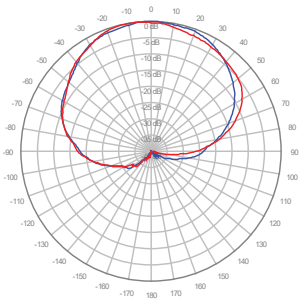
Azimuth



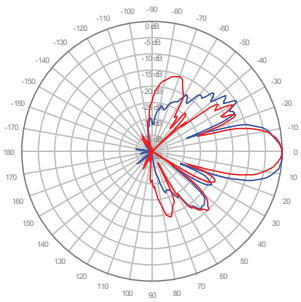
Elevation

P6, 2° TILT

+45°

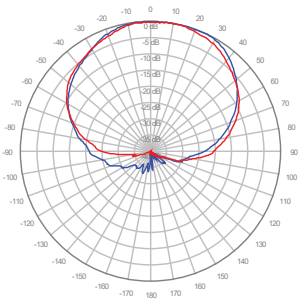


Azimuth

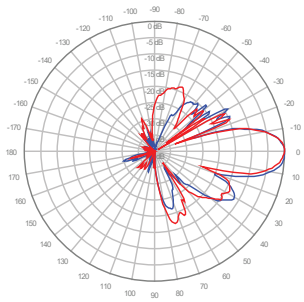


Elevation

-45°



Azimuth



Elevation

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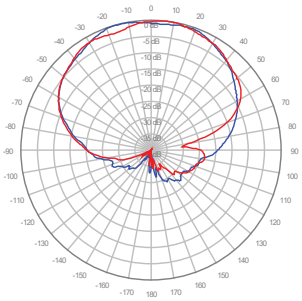
4000 MHz

P1, 4° TILT

+45°



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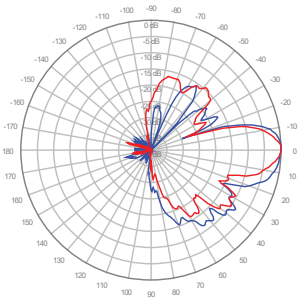
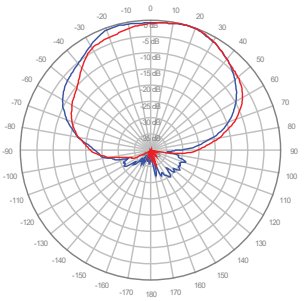
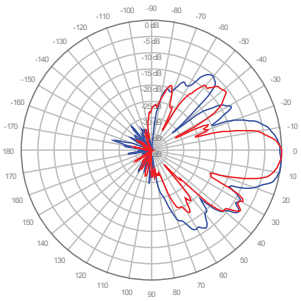


Elevation

-45°



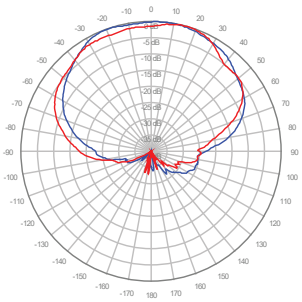
Azimuth



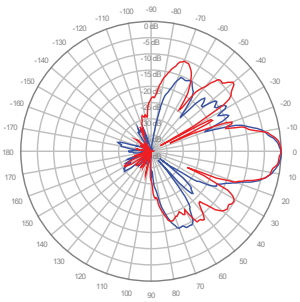
Elevation

P2, 4° TILT

+45°

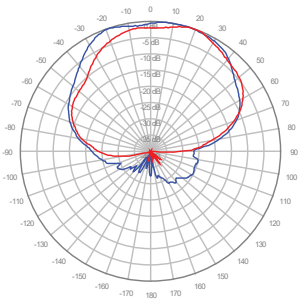


Azimuth

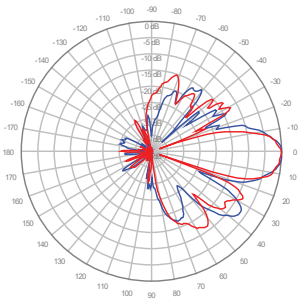


Elevation

-45°



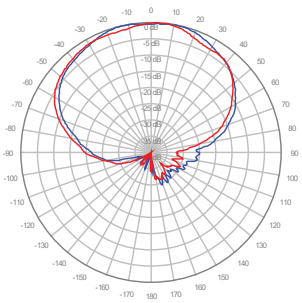
Azimuth



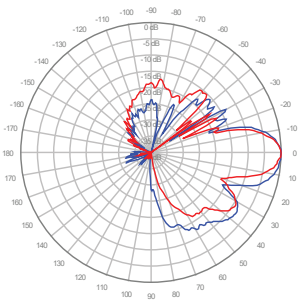
Elevation

P3, 4° TILT

+45°

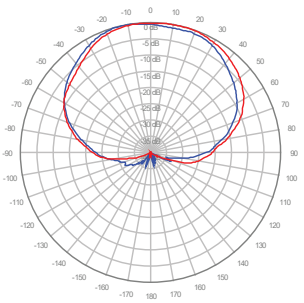


Azimuth

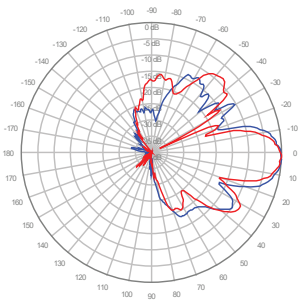


Elevation

-45°



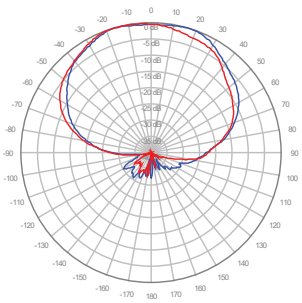
Azimuth



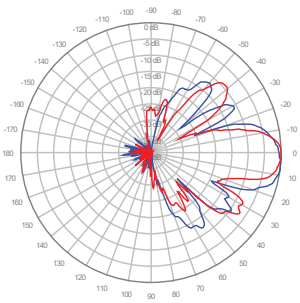
Elevation

P4, 4° TILT

+45°

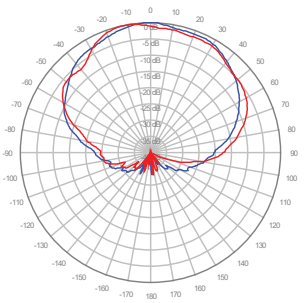


Azimuth

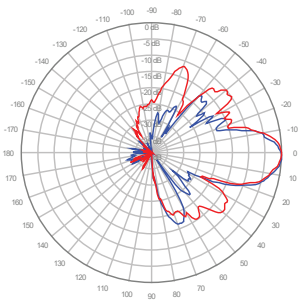


Elevation

-45°



Azimuth



Elevation

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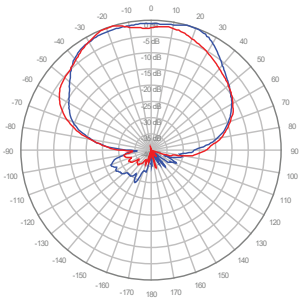
3600 MHz
4000 MHz

P5, 4° TILT

+45°



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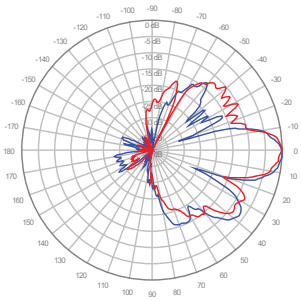
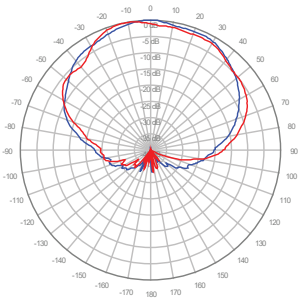
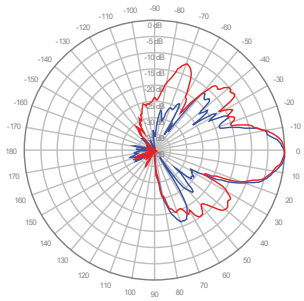


Elevation

-45°



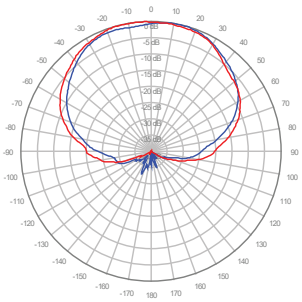
Azimuth



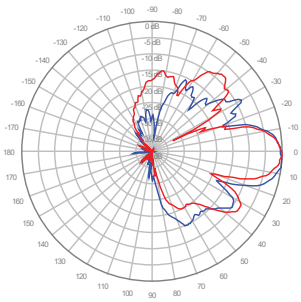
Elevation

P6, 4° TILT

+45°

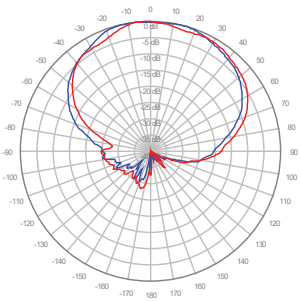


Azimuth

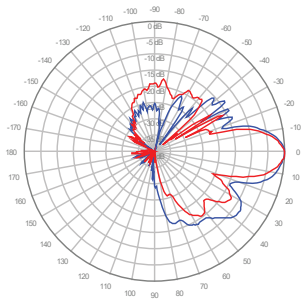


Elevation

-45°



Azimuth



Elevation

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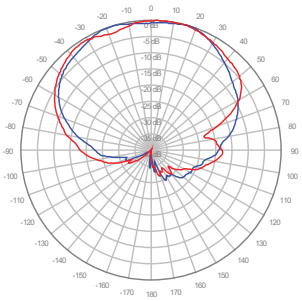
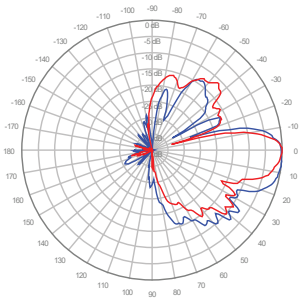
3600 MHz
4000 MHz

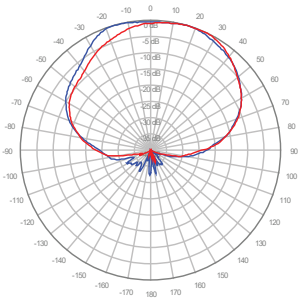
P1, 6° TILT

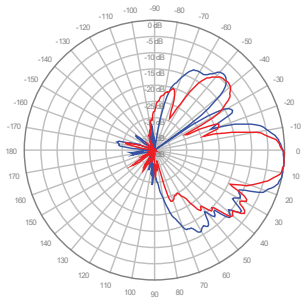
+45°





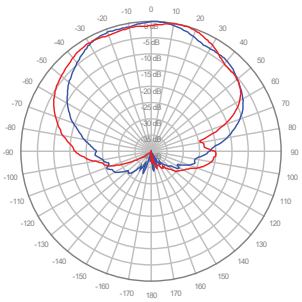
-45°

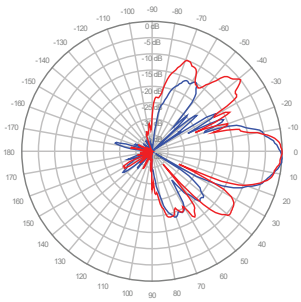




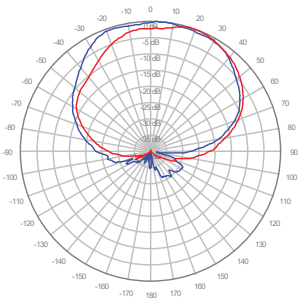
P2, 6° TILT

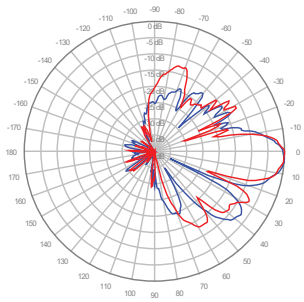
+45°





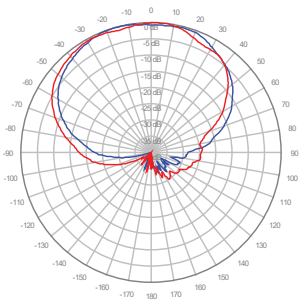
-45°

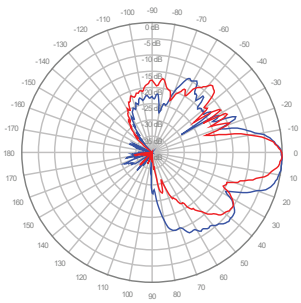




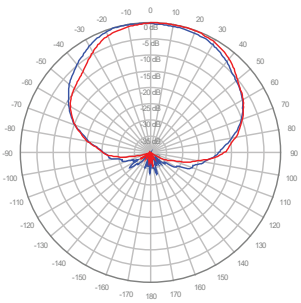
P3, 6° TILT

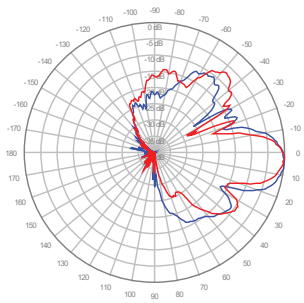
+45°





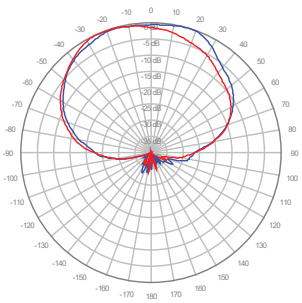
-45°

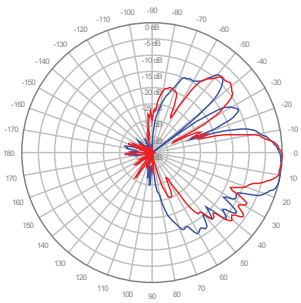




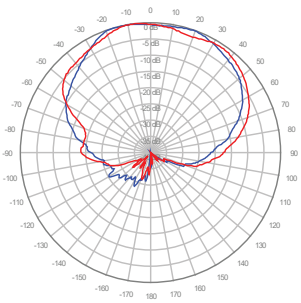
P4, 6° TILT

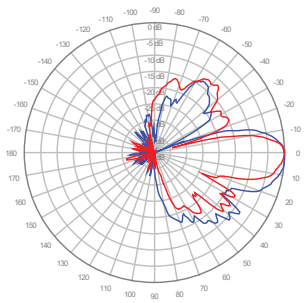
+45°





-45°





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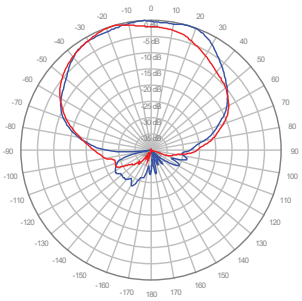
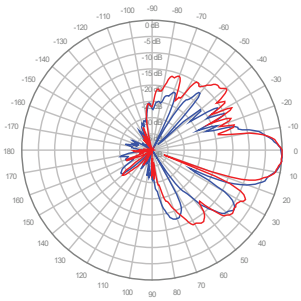
3600 MHz
4000 MHz

P5, 6° TILT

+45°

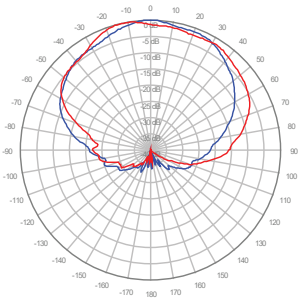


Azimuth

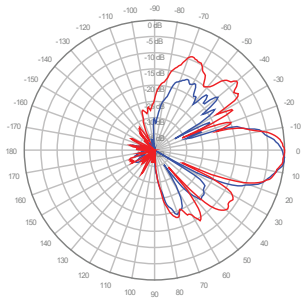


Elevation

-45°



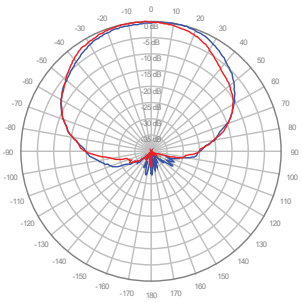
Azimuth



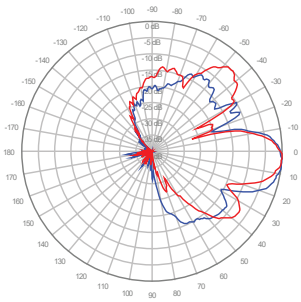
Elevation

P6, 6° TILT

+45°

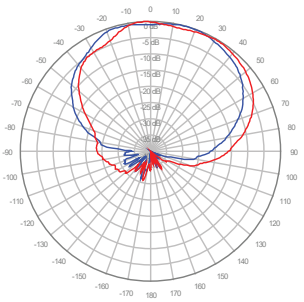


Azimuth

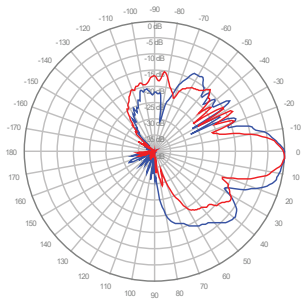


Elevation

-45°



Azimuth



Elevation