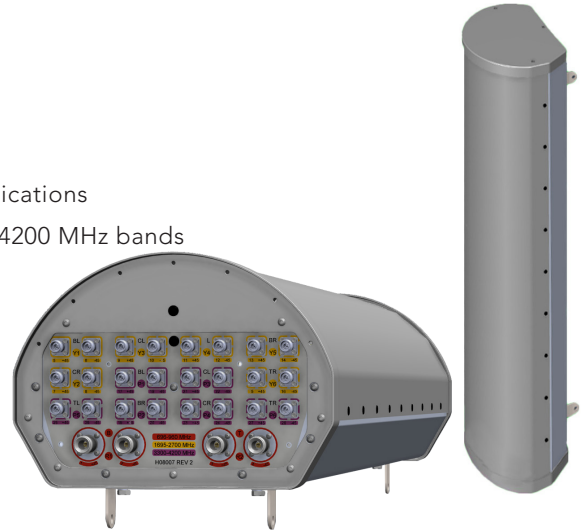


2C6U6VX065X12Fwxyz5

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
	MAX	dBi	11.4
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

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2C6U6VX065X12Fwxyz5

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		

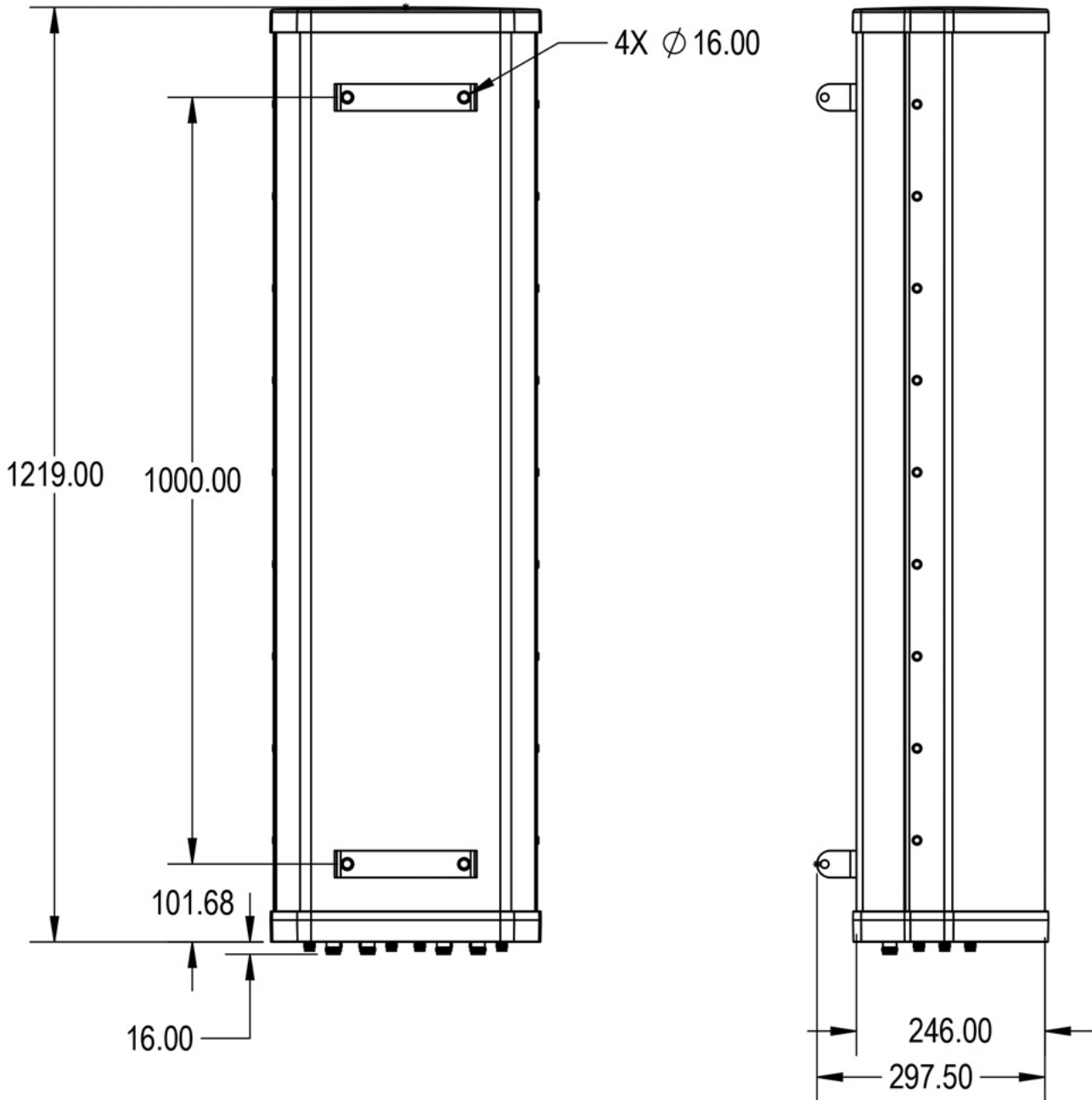
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MECHANICAL SPECIFICATIONS

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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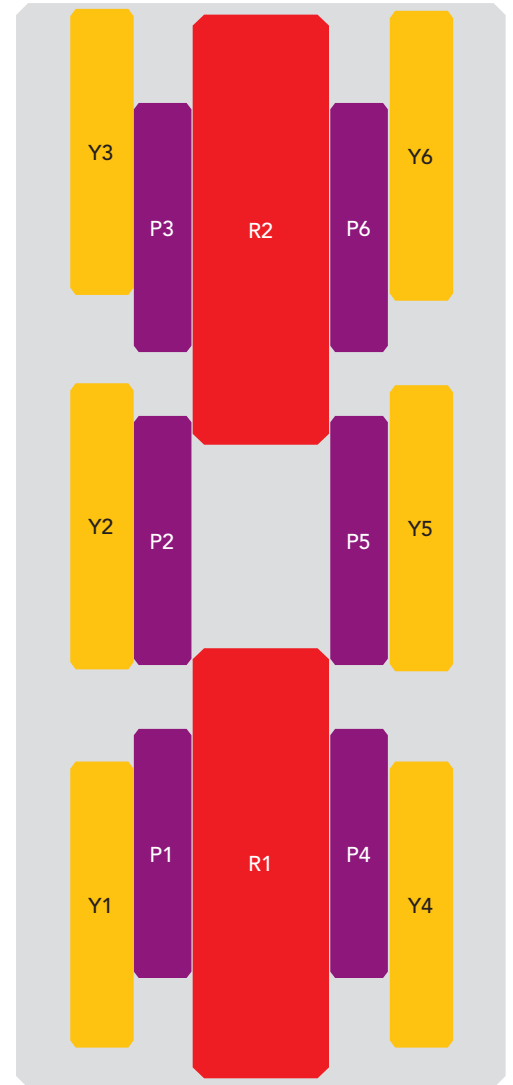


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2C6U6VX065X12Fwxyz5

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

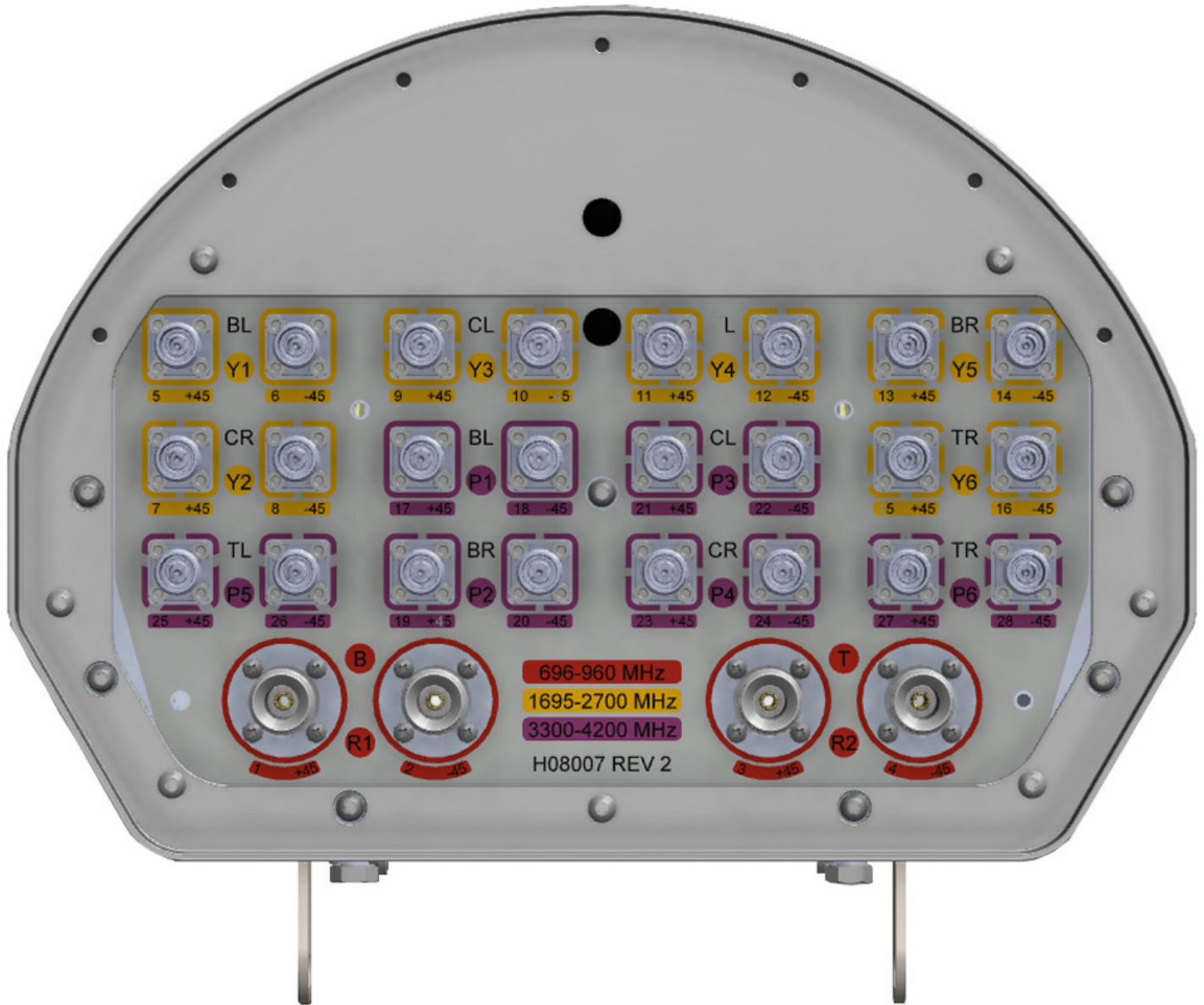


The illustration is not shown to scale.

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2C6U6VX065X12Fwxyz5

BOTTOM VIEW - LABELING



INSTALLATION Please read all installation notes before installing this product.



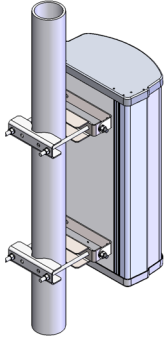
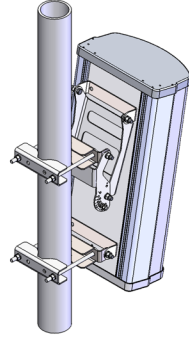
Always attach the antenna using all mounting points.

Do not install the antenna with the connectors facing upwards.

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2C6U6VX065X12Fwxyz5

MOUNTING KITS Select from the following mounting options when ordering.

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

2C6U6VX065X12Fwxyz5

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	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	<p>These letters are placeholders for fixed tilt options.</p> <p>Refer to Electrical Specifications for available tilt options.</p>	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	<p>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.</p> <p>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.</p> <p>Refer to the ordering options on the following page for further detail.</p>

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2C6U6VX065X12Fwxyz5

ORDERING OPTIONS Select from the following ordering options

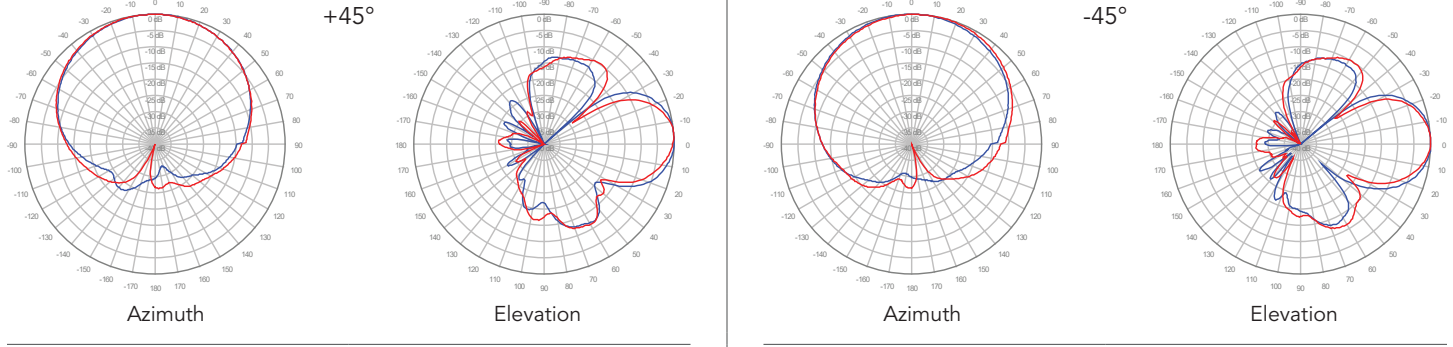
SELECT MOUNTING KIT	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ORDER MODEL NUMBER
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	
ANTENNA ONLY - NO MOUNTING KIT	0°	2°	2°	2C6U6VX065X12F022c5
	0°	4°	4°	2C6U6VX065X12F044c5
	0°	6°	6°	2C6U6VX065X12F066c5
	0°	Y1, Y2 = 2°; Y3, Y4, Y5, Y6 = 4°	2°	2C6U6VX065X12F0A2c5
	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

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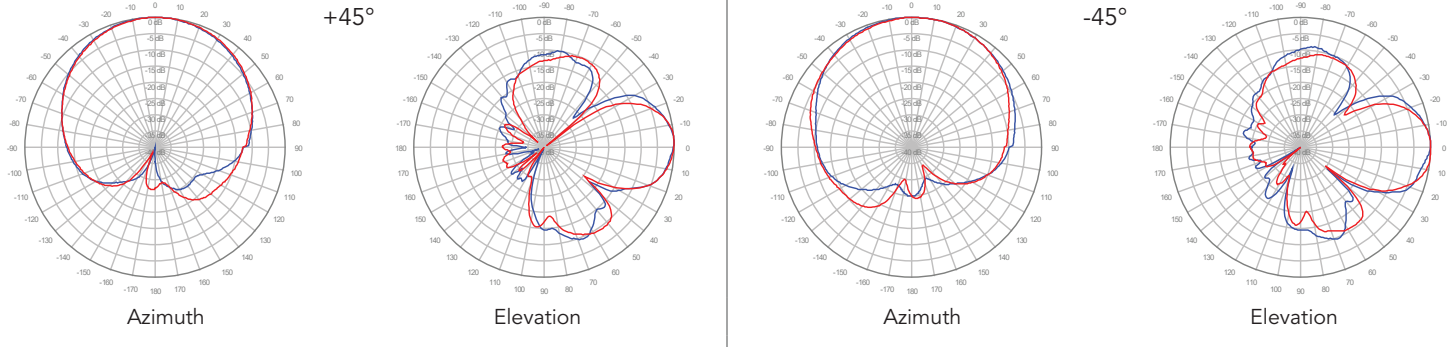
2C6U6VX065X12Fwxyz5

750 MHz ————
850 MHz ————

R1, 0° TILT



R2, 0° TILT

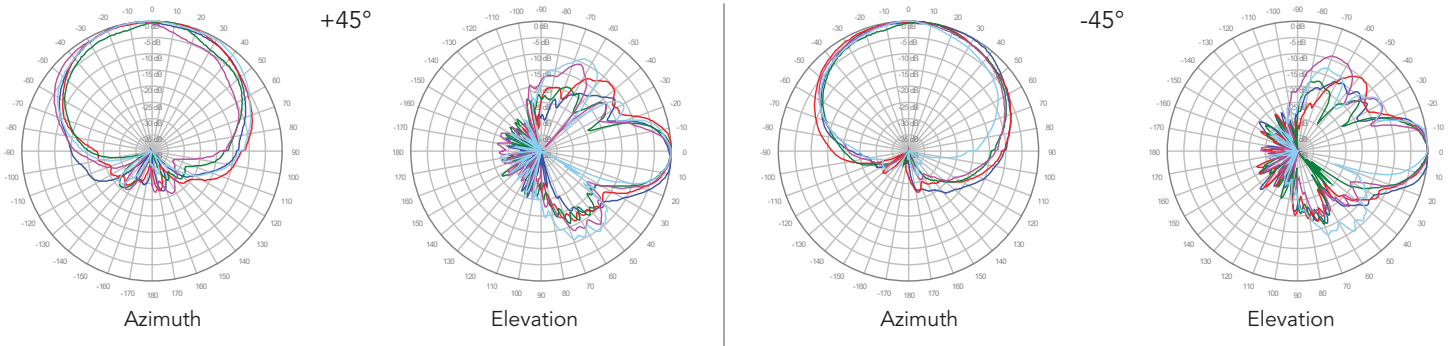


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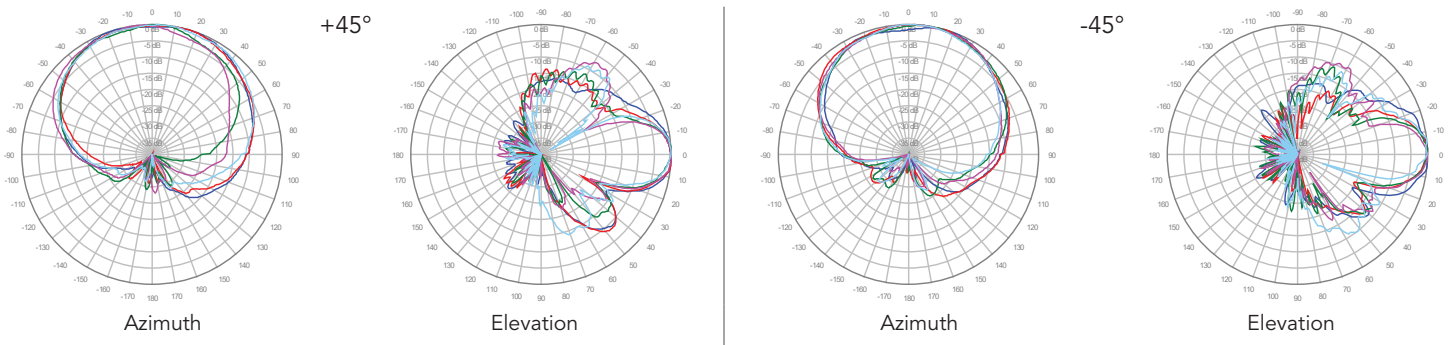
2C6U6VX065X12Fwxyc5

- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

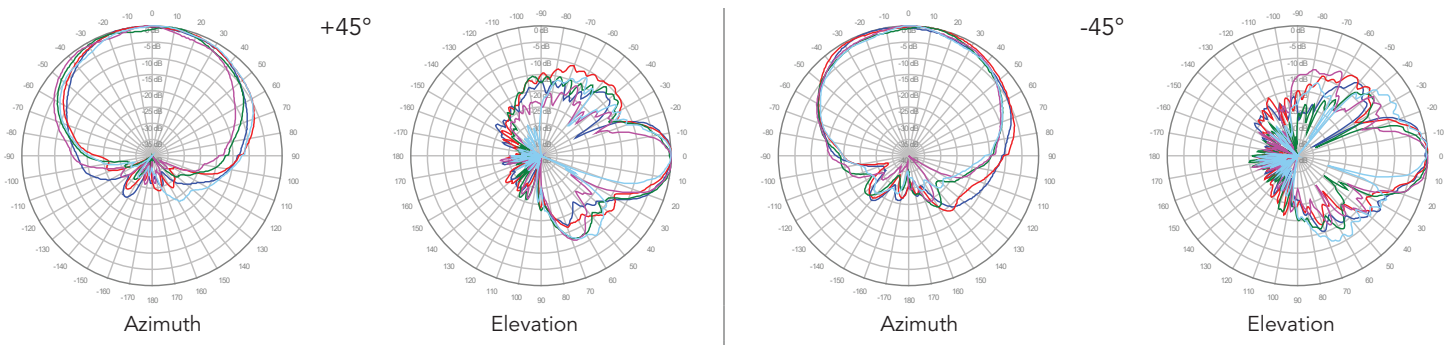
Y1, 2° TILT



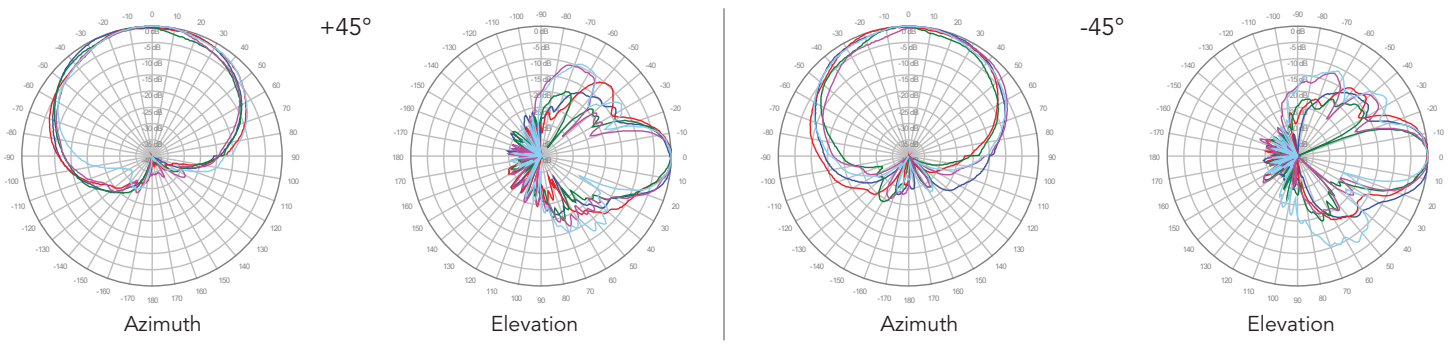
Y2, 2° TILT



Y3, 2° TILT



Y4, 2° TILT

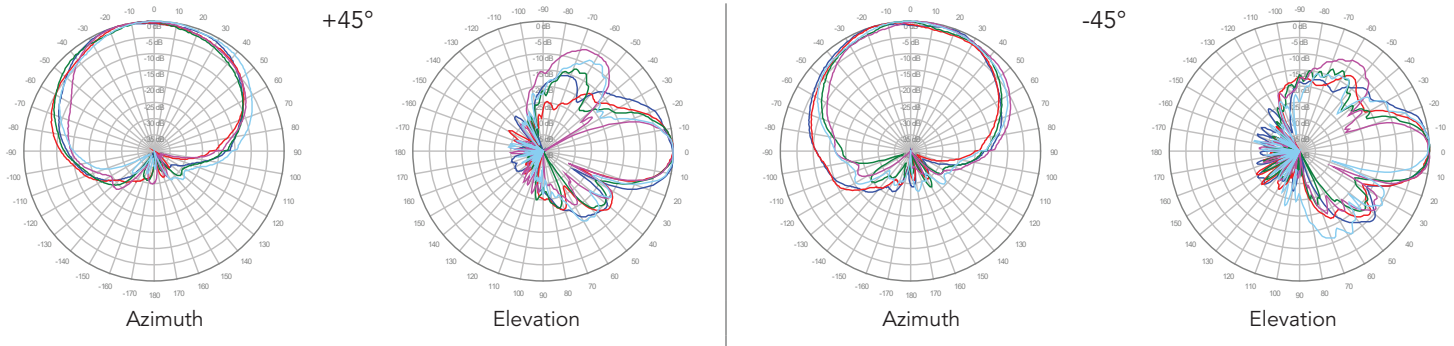


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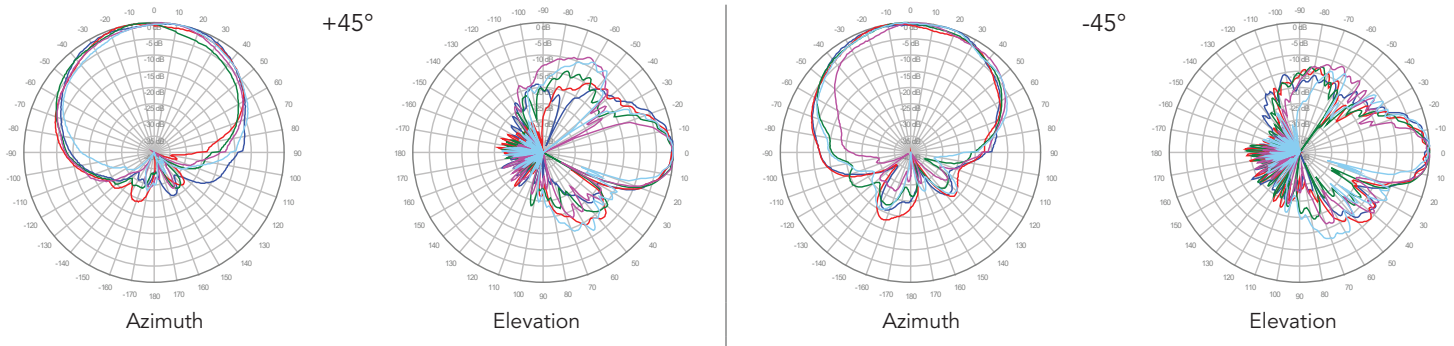
2C6U6VX065X12Fwxyz5

- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

■ Y5, 2° TILT



■ Y6, 2° TILT

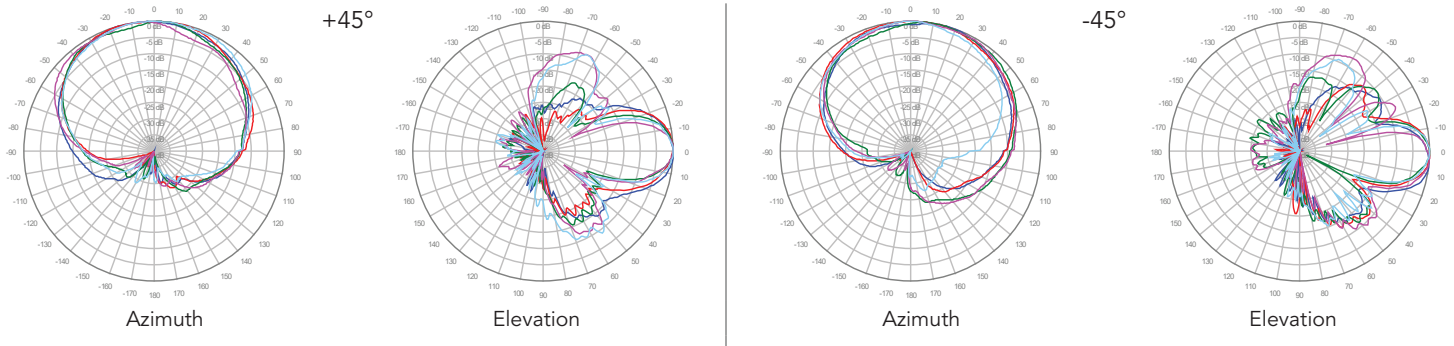


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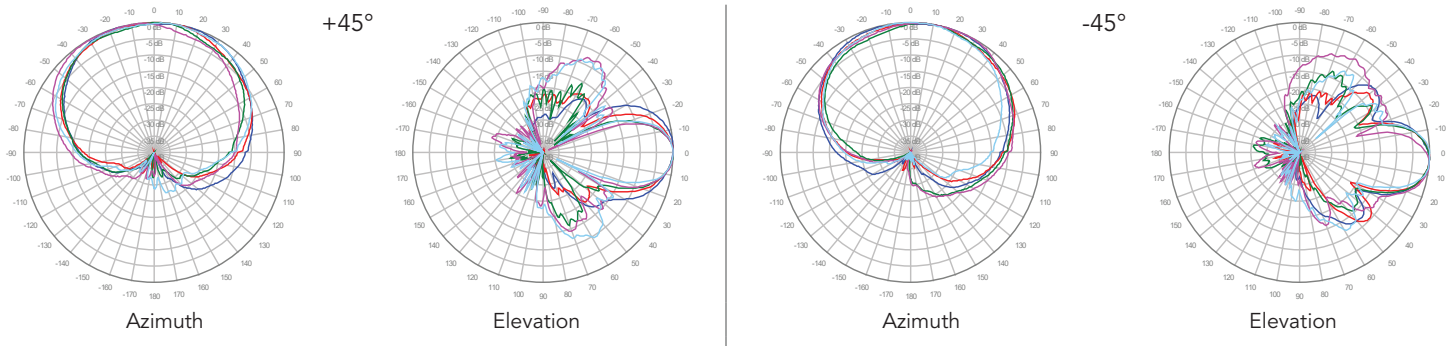
2C6U6VX065X12Fwxyc5

- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

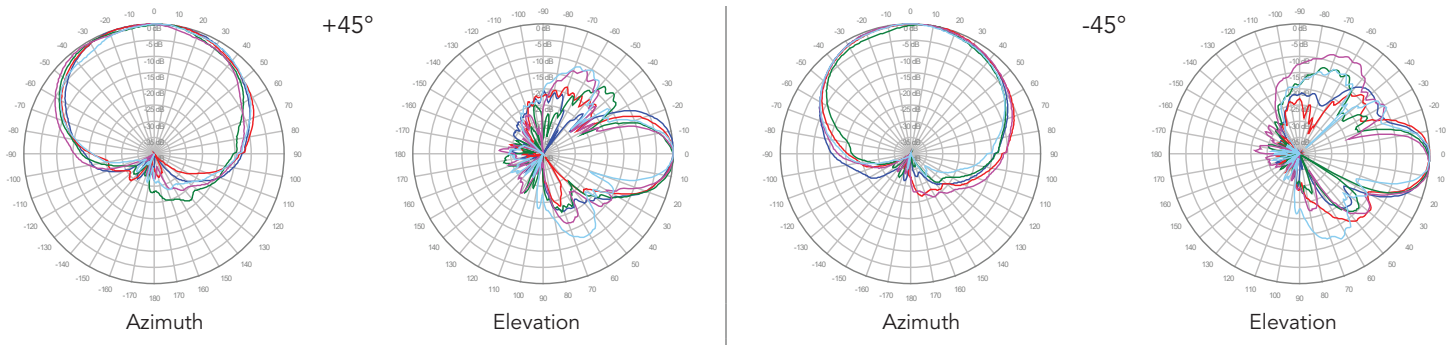
Y1, 4° TILT



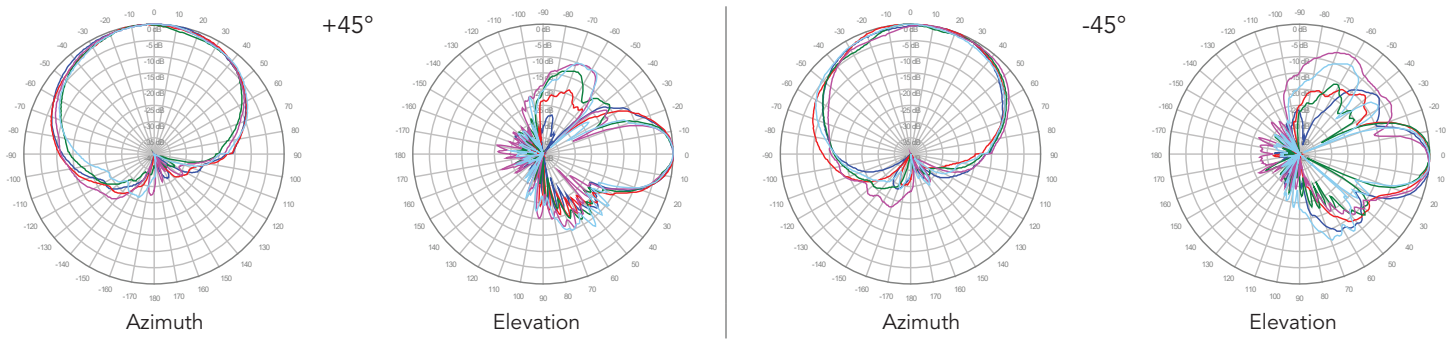
Y2, 4° TILT



Y3, 4° TILT



Y4, 4° TILT

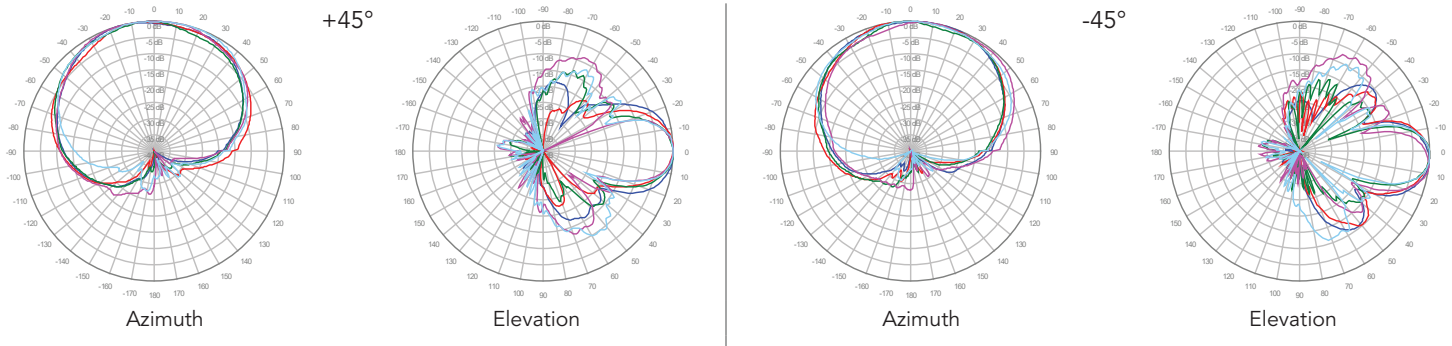


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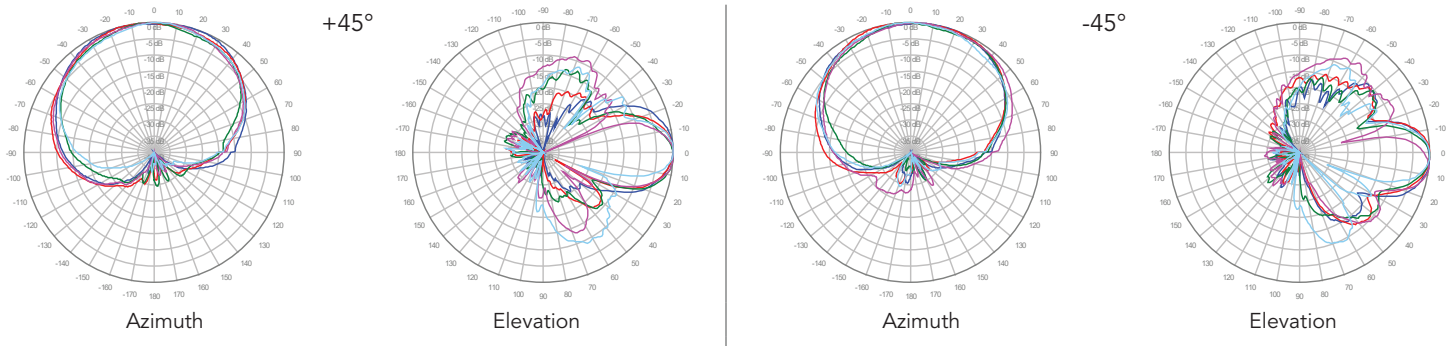
2C6U6VX065X12Fwxyz5

- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

■ Y5, 4° TILT



■ Y6, 4° TILT

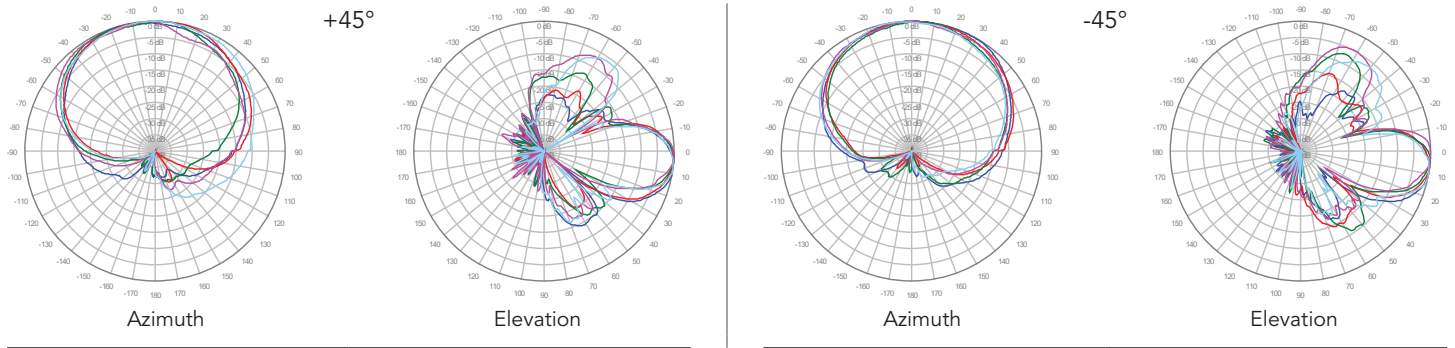


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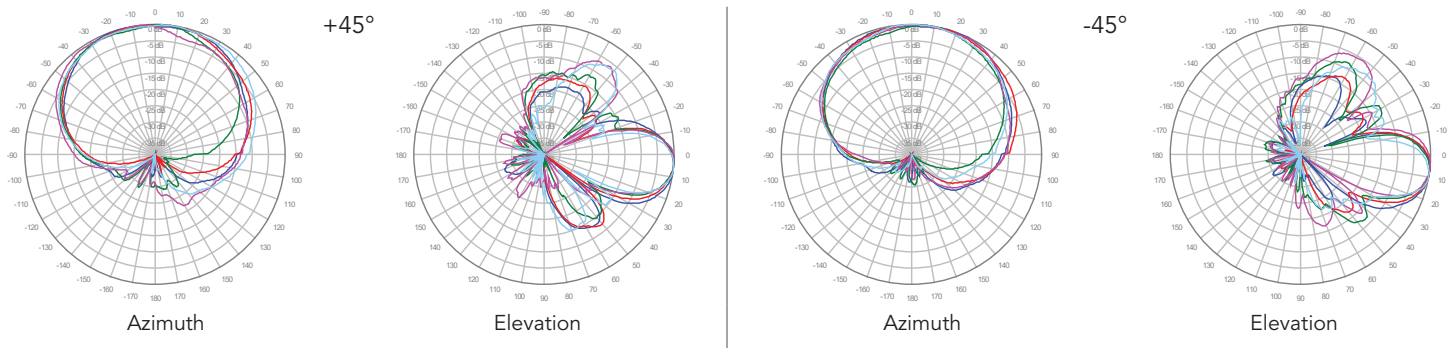
2C6U6VX065X12Fwxyc5

- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

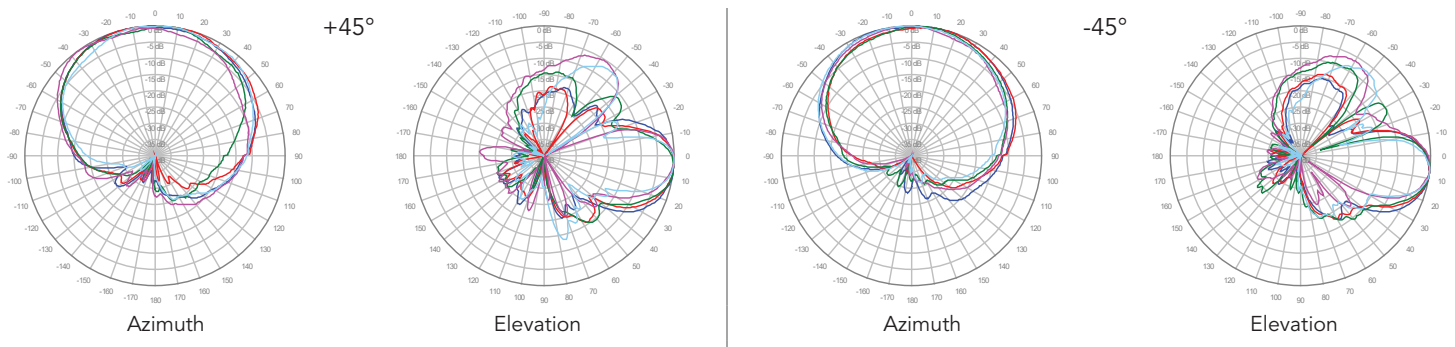
Y1, 6° TILT



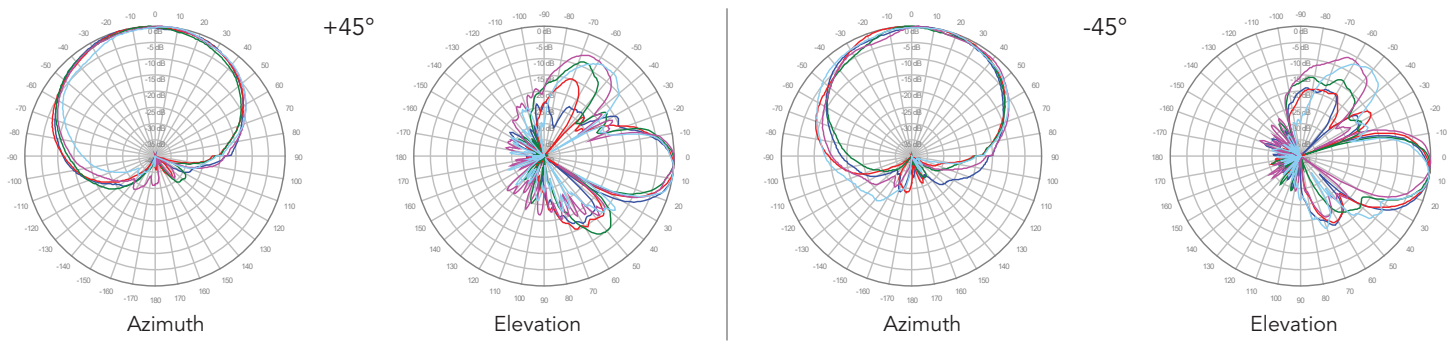
Y2, 6° TILT



Y3, 6° TILT



Y4, 6° TILT

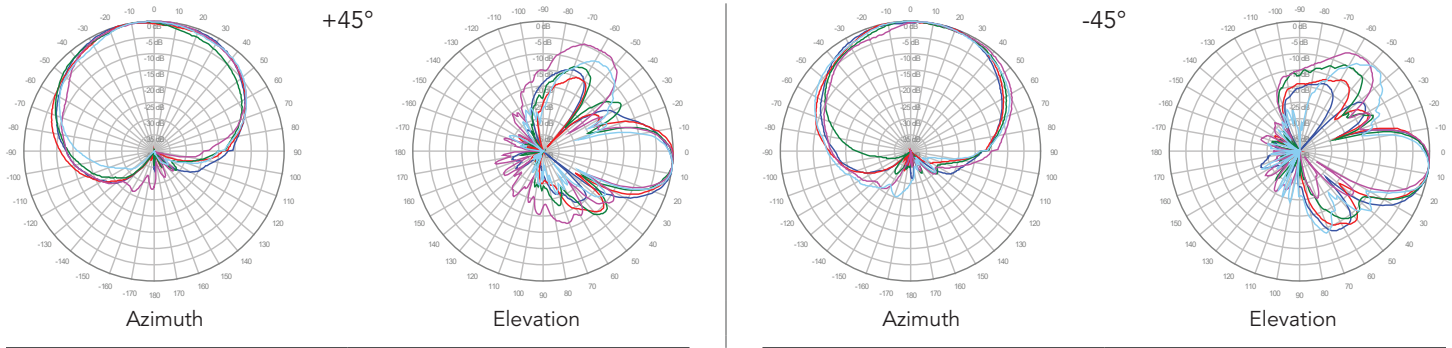


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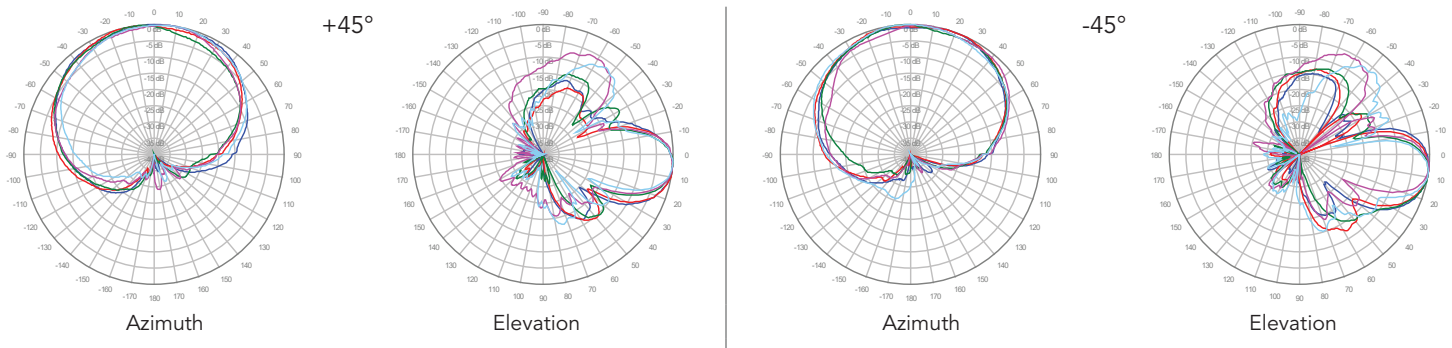
2C6U6VX065X12Fwxyz5

- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

■ Y5, 6° TILT



■ Y6, 6° TILT

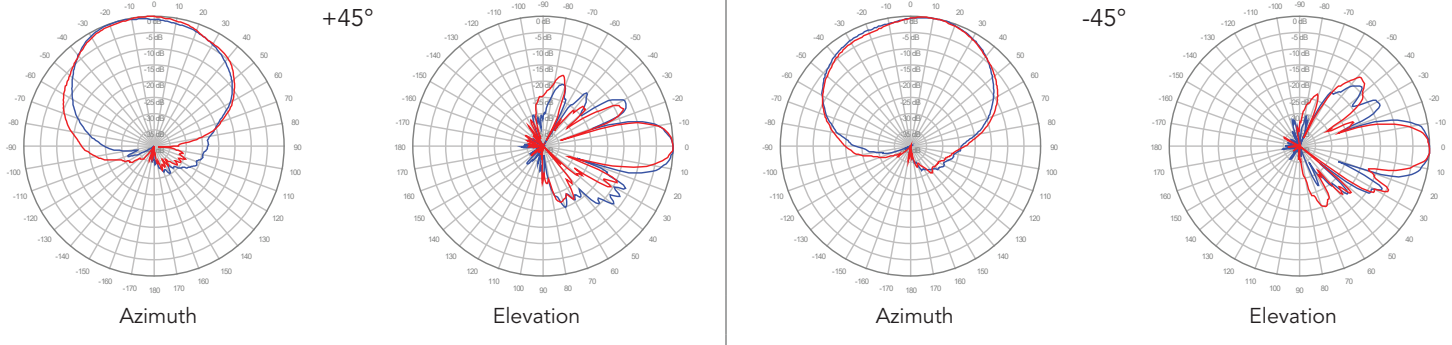


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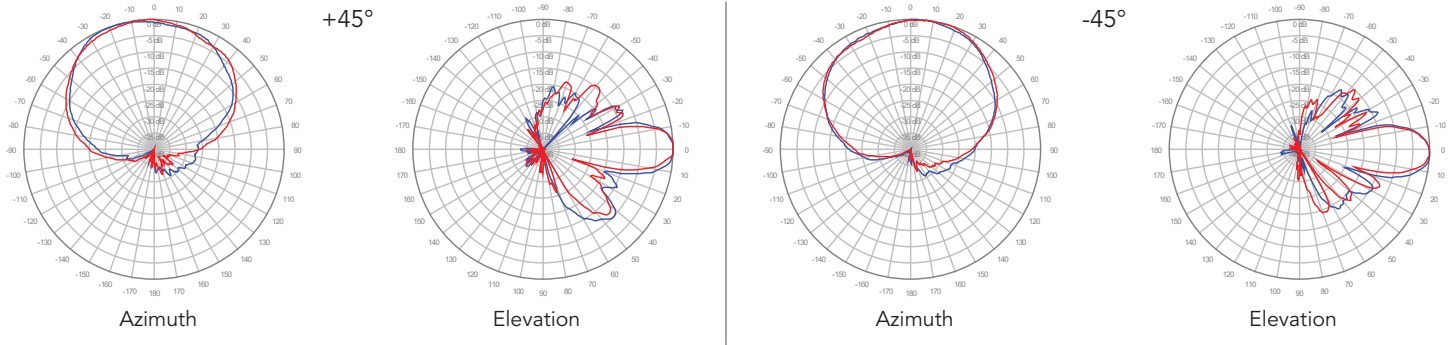
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3600 MHz ————
4000 MHz ————

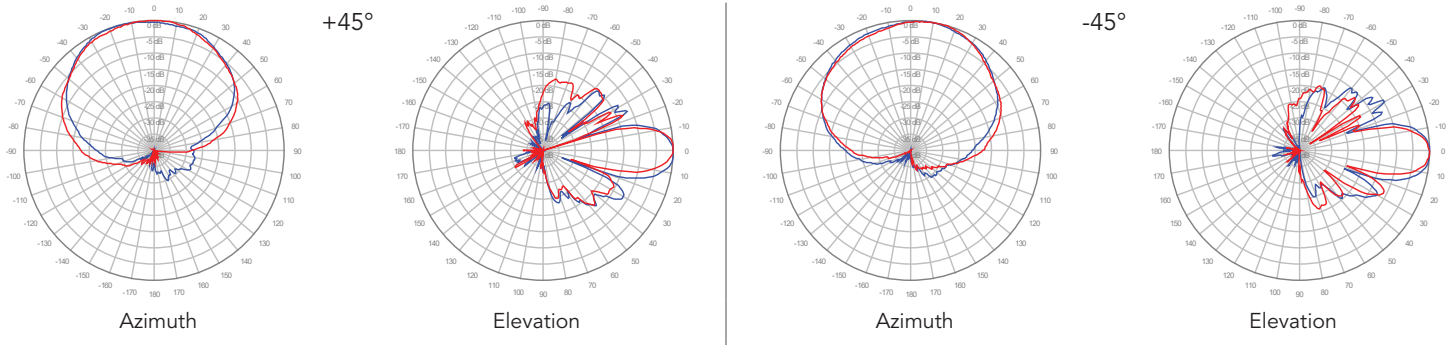
P1, 2° TILT



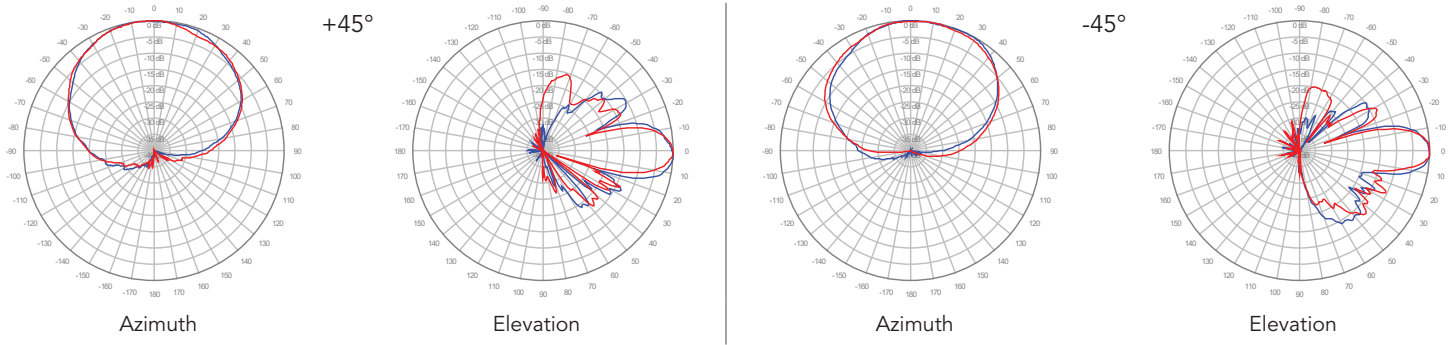
P2, 2° TILT



P3, 2° TILT



P4, 2° TILT

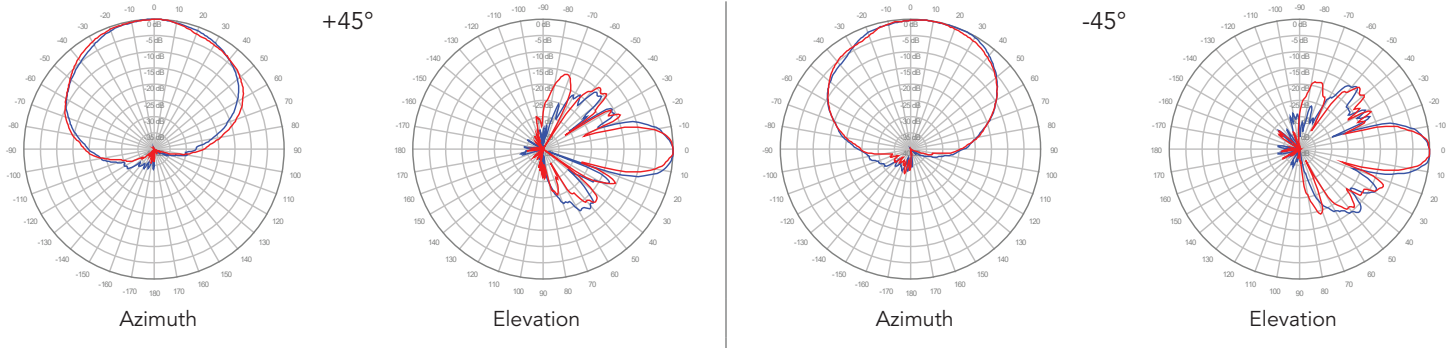


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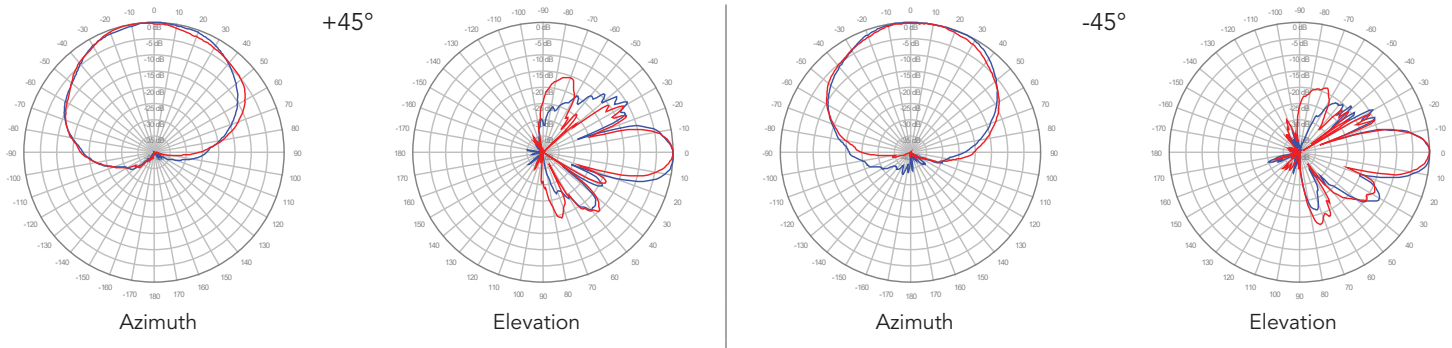
2C6U6VX065X12Fwxyc5

3600 MHz ————
4000 MHz ————

■ P5, 2° TILT



■ P6, 2° TILT

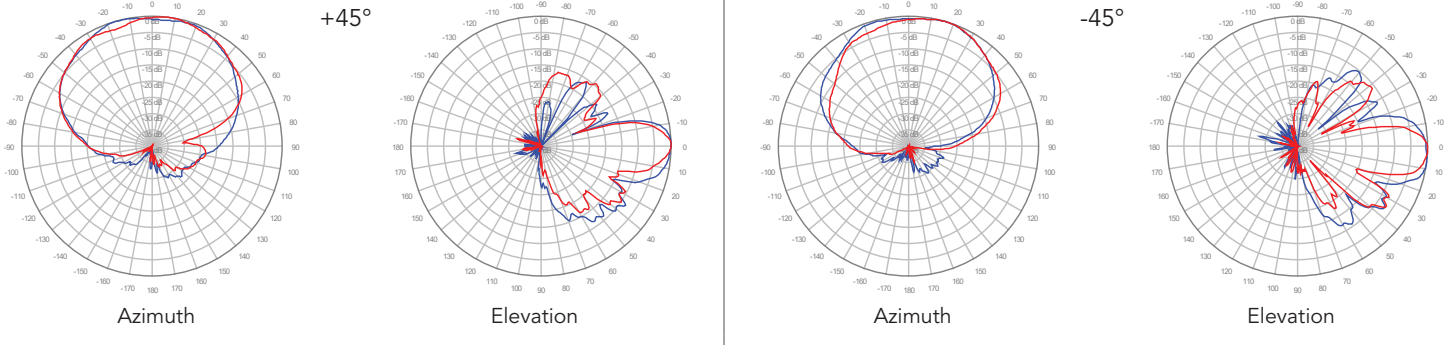


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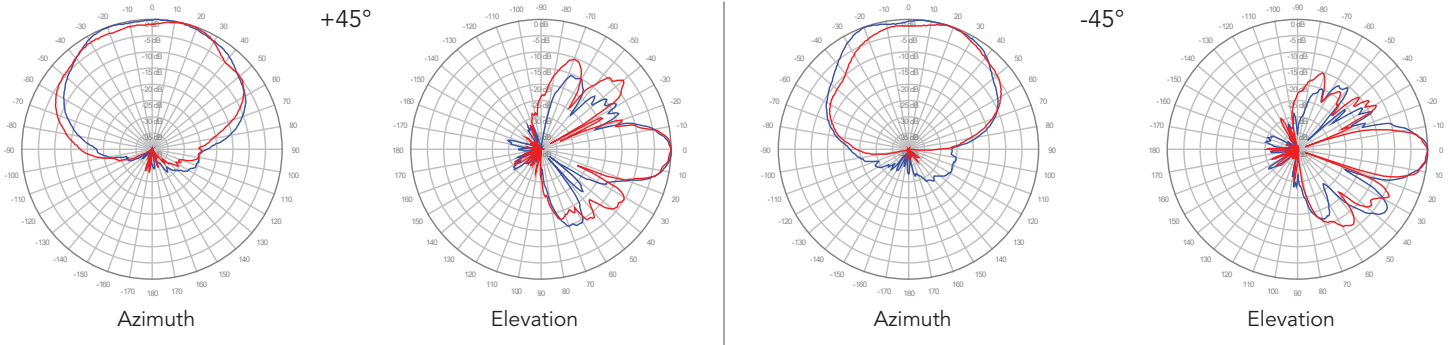
2C6U6VX065X12Fwxyc5

3600 MHz ————
4000 MHz ————

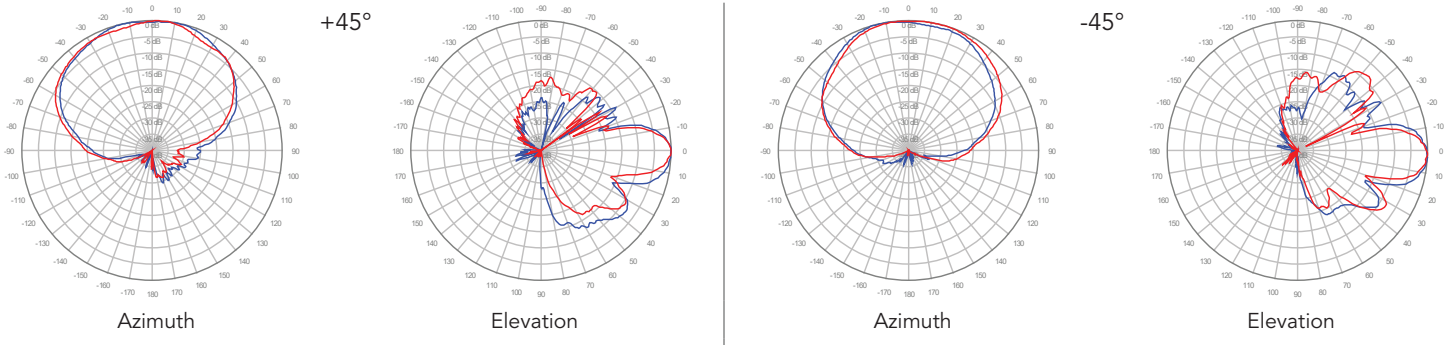
P1, 4° TILT



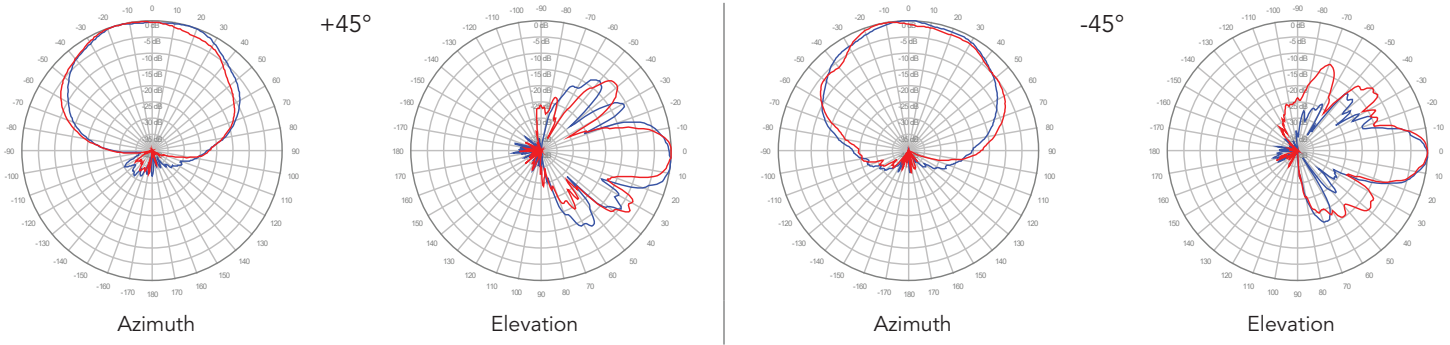
P2, 4° TILT



P3, 4° TILT



P4, 4° TILT

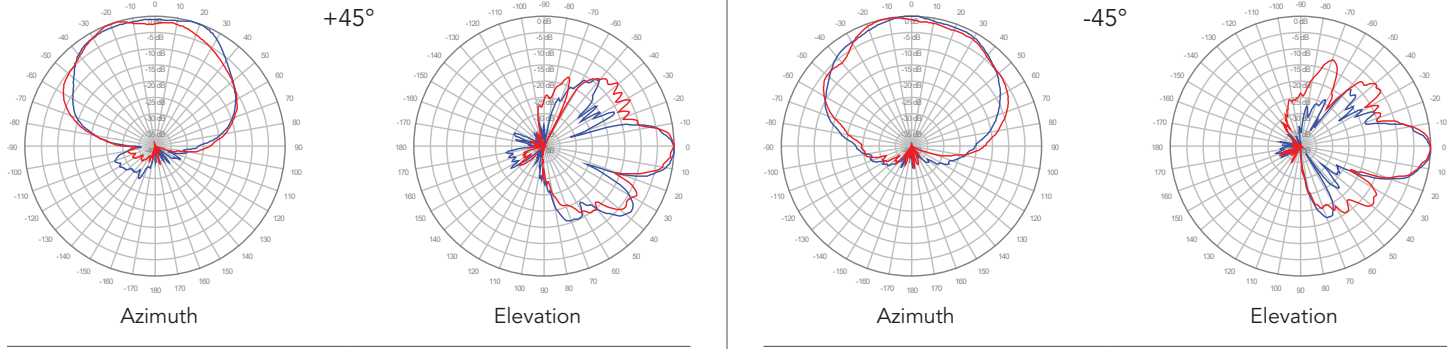


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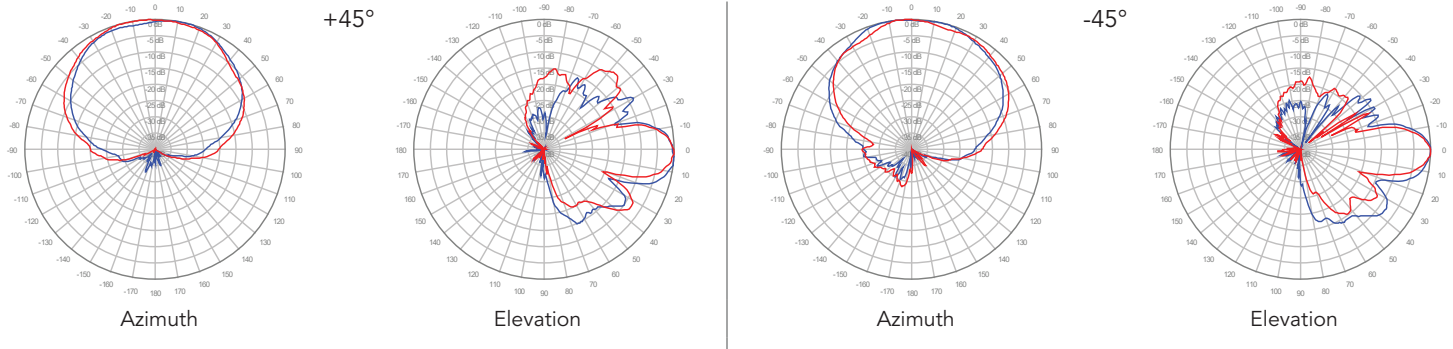
2C6U6VX065X12Fwxyz5

3600 MHz ————
4000 MHz ————

■ P5, 4° TILT



■ P6, 4° TILT

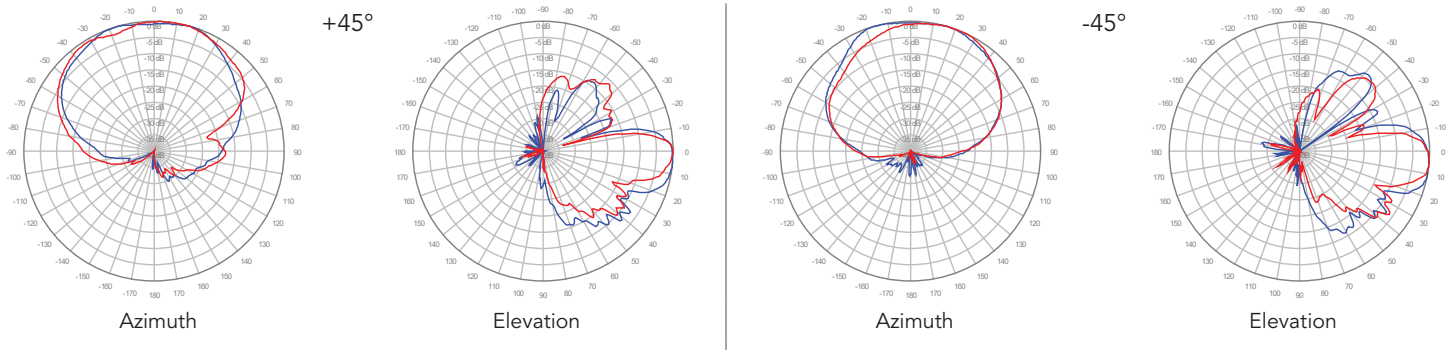


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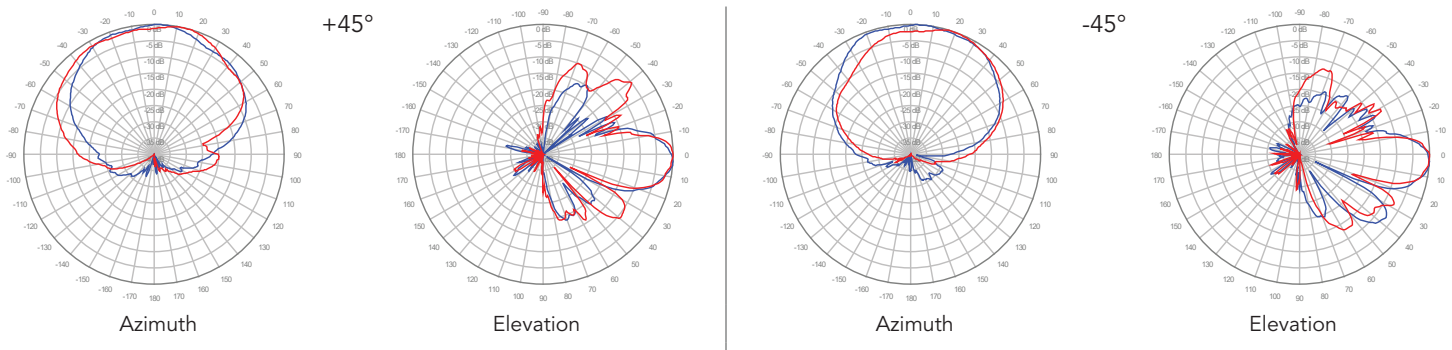
2C6U6VX065X12Fwxyc5

3600 MHz ————
4000 MHz ————

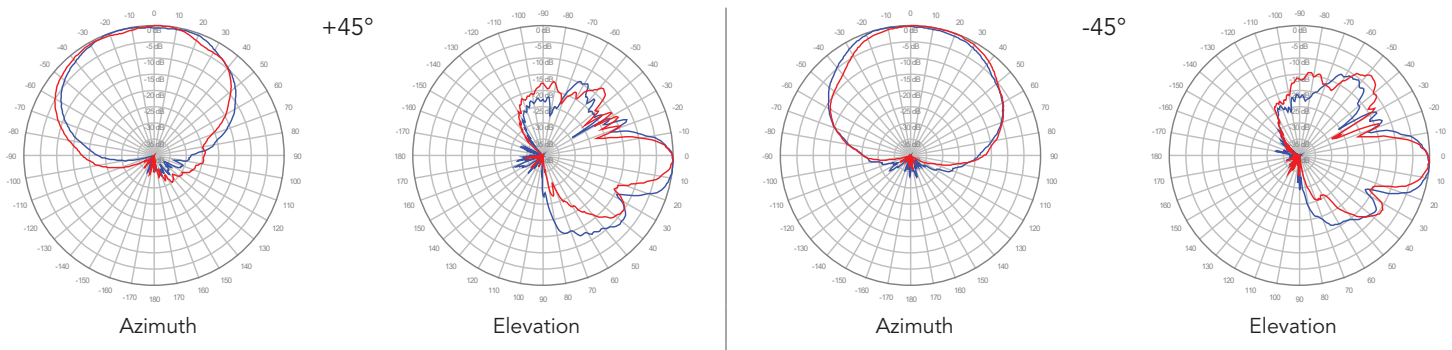
■ P1, 6° TILT



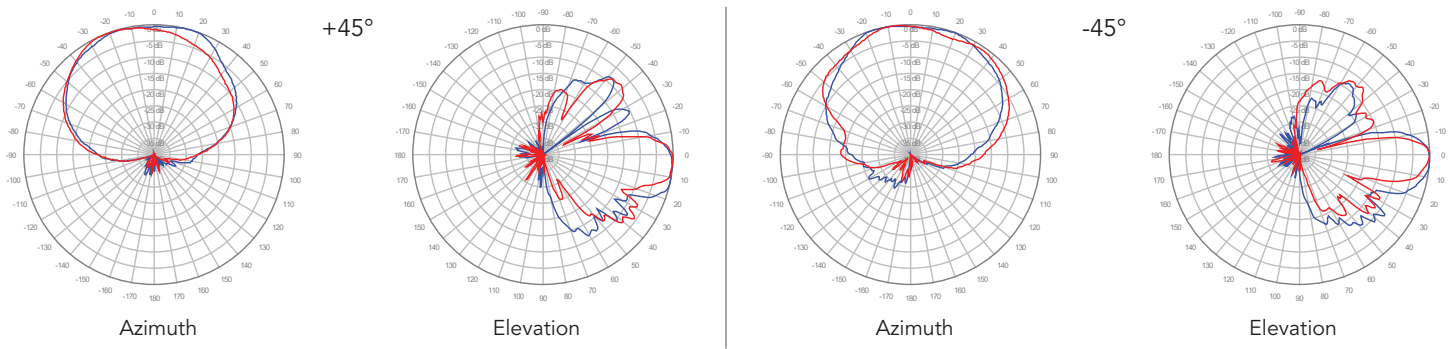
■ P2, 6° TILT



■ P3, 6° TILT



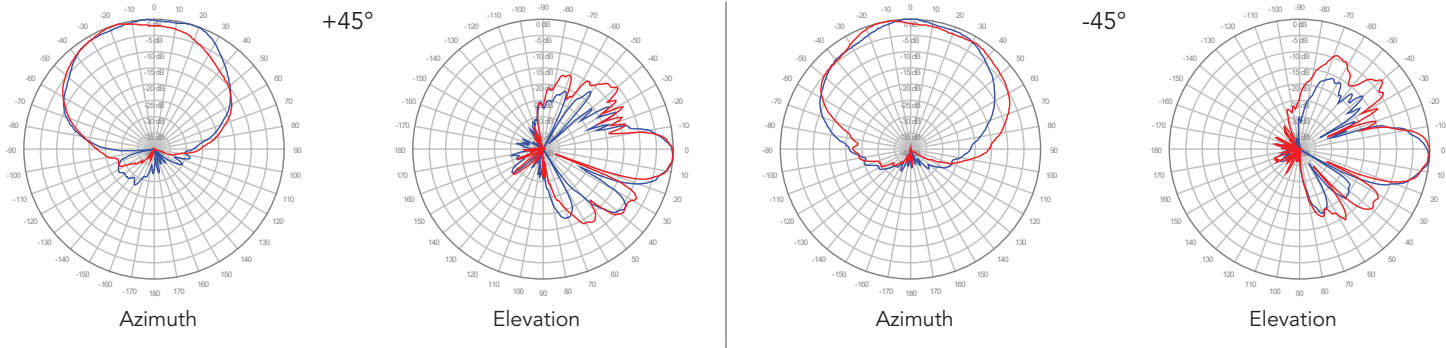
■ P4, 6° TILT



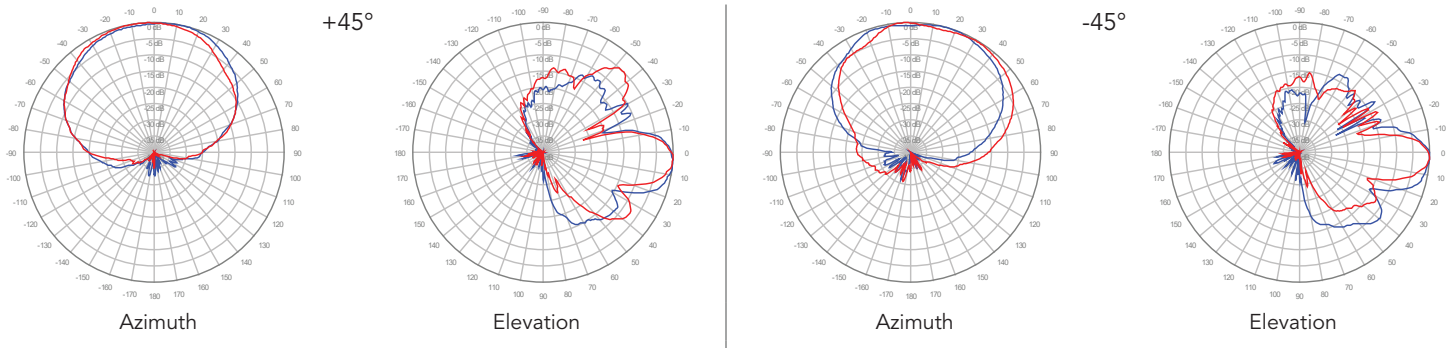
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2C6U6VX065X12Fwxyz5

■ P5, 6° TILT



■ P6, 6° TILT



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