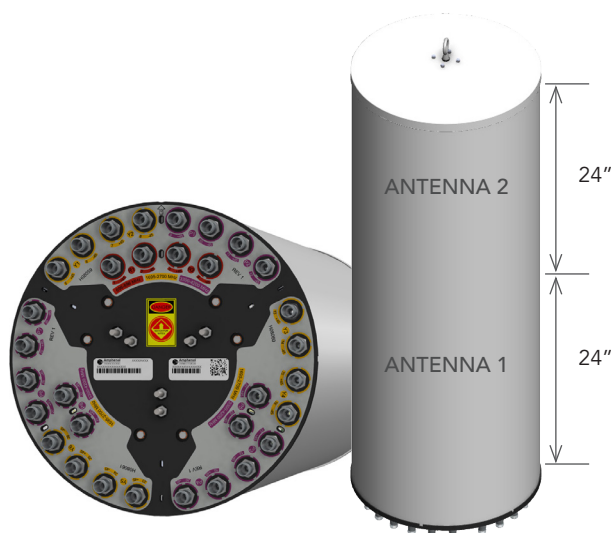


2C6U8VT360X12Fwxys5

Features

- Pseudo omni configuration with 32 connectors
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- Improvements in gain, port isolation and VSWR
- Available for order with a grey, brown or black radome



PRODUCT OVERVIEW	Frequency Range (MHz)	(2x) 696-960	(6x) 1695-2700	(8x) 3300-4200
	Array	■ R1 ■ R2	■ Y1 ■ Y2 ■ Y3 ■ Y4 ■ Y5 ■ Y6	■ P1 ■ P2 ■ P3 ■ P4 ■ P5 ■ P6 ■ P7 ■ P8
	Connector	4 PORTS	12 PORTS	16 PORTS
	Polarization	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°	360°
	Electrical Downtilt	0°, 4°	2°, 4°, 6°	2°, 4°, 6°
	Configuration	OMNI CONFIGURATION		
	Maximum Continuous Power Per Port @ 50° C (122° F)	500 WATTS	300 WATTS	100 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	7200 WATTS		
	Connector Type	(32x) 4.3-10 FEMALE		
	Dimensions	1220 x Ø457 mm (48.0 x Ø18 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	7.0 ± 1.1	7.3 ± 1.2
	MAX	dBi	8.1	8.5
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	31.7° ± 4.6°	27.1° ± 3.7°
Electrical Downtilt		degrees	(w) 0°, 4°	
Impedance		Ohms	50Ω	
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 same band; > 30 different band	

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2C6U8VT360X12Fwxys5

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) $\pm 45^\circ$			
Gain	BASTA	dBi	7.9 ± 1.4	8.2 ± 1.0	8.1 ± 1.4
	MAX	dBi	9.3	9.2	9.5
Azimuth Beamwidth (3 dB)	degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)	degrees	$19.2^\circ \pm 2.8^\circ$	$18.4^\circ \pm 3.3^\circ$	$17.5^\circ \pm 3.2^\circ$	$14.4^\circ \pm 2.0^\circ$
Electrical Downtilt	degrees	(x) $2^\circ, 4^\circ, 6^\circ$			
Impedance	Ohms	50Ω			
VSWR	---	1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBc	< -153			
Upper Sidelobe Suppression	dB	> 15			
Isolation	Intraband	dB	> 25		
	Interband	dB	> 28 same band; > 30 different band		

ELECTRICAL SPECIFICATIONS

■ P1 ■ P2 ■ P3 ■ P4 ■ P5 ■ P6 ■ P7 ■ P8

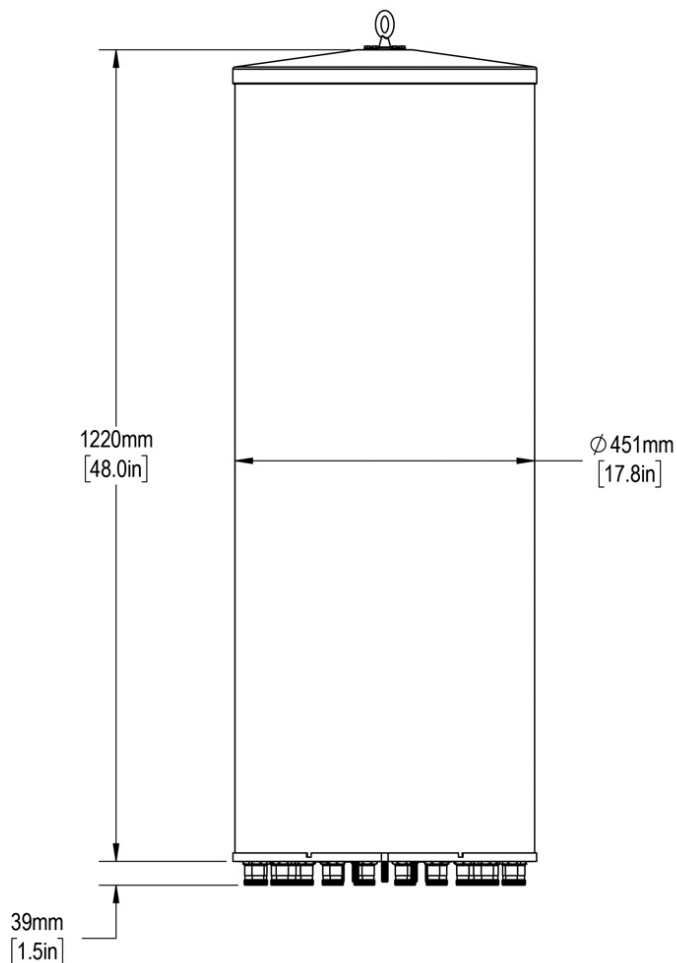
Frequency Range		MHz	(8x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(8x) ±45°		
Gain	BASTA	dBi	8.5 ± 1.2	8.8 ± 1.3	9.5 ± 1.2
	MAX	dBi	9.7	10.1	10.7
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	16.4° ± 3.6°	15.9° ± 3.6°	14.7° ± 3.9°
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	> 15		
Isolation	Intraband	dB	> 25		
	Interband	dB	> 28 same band; > 30 different band		

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2C6U8VT360X12Fwxys5

MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	1220 (48.0)
	Diameter	mm (in)	457 (18.0)
Net Weight - Antenna Only		kg (lbs)	31.8 (70)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	466 (106)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m ² (ft ²)	0.2 (7.1)
Volume	Total	m ³ (ft ³)	0.2 (7.1)
	Each Antenna	m ³ (ft ³)	0.1 (3.5)
Connector	Type	---	(32x) 4.3-10 Female
	Position	---	Bottom
Radome Color		---	Grey (Pantone 420 C) Brown (Pantone 476 C) Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground

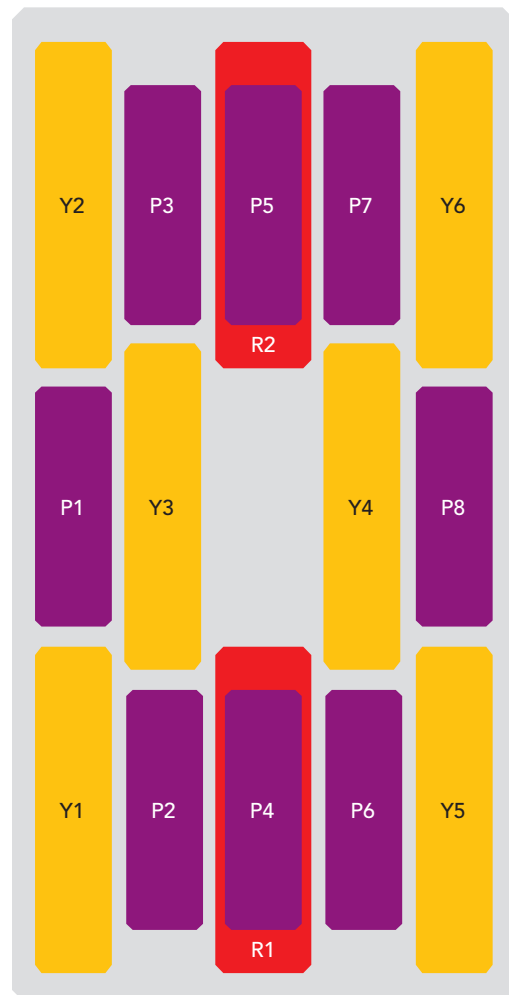


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2C6U8VT360X12Fwxys5

ARRAY LAYOUT Topology

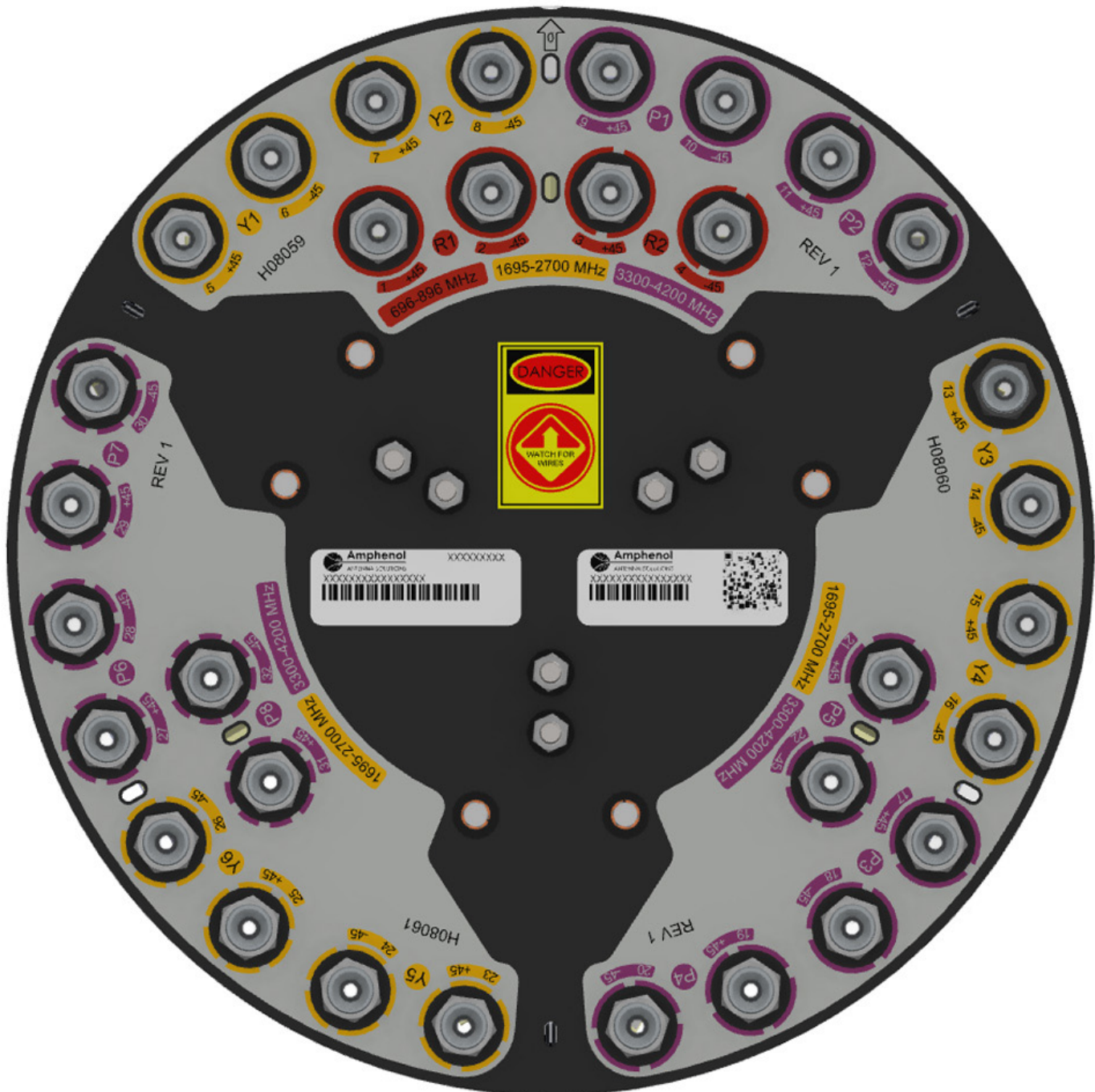
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	■ R1	1-2	(2x) 4.3-10 Female
696-960 MHz	■ R2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	■ Y1	5-6	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	7-8	(2x) 4.3-10 Female
1695-2700 MHz	■ Y3	13-14	(2x) 4.3-10 Female
1695-2700 MHz	■ Y4	15-16	(2x) 4.3-10 Female
1695-2700 MHz	■ Y5	23-24	(2x) 4.3-10 Female
1695-2700 MHz	■ Y6	25-26	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	9-10	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	11-12	(2x) 4.3-10 Female
3300-4200 MHz	■ P3	17-18	(2x) 4.3-10 Female
3300-4200 MHz	■ P4	19-20	(2x) 4.3-10 Female
3300-4200 MHz	■ P5	21-22	(2x) 4.3-10 Female
3300-4200 MHz	■ P6	27-28	(2x) 4.3-10 Female
3300-4200 MHz	■ P7	29-30	(2x) 4.3-10 Female
3300-4200 MHz	■ P8	31-32	(2x) 4.3-10 Female



The illustration is not shown to scale.

2C6U8VT360X12Fwxy5

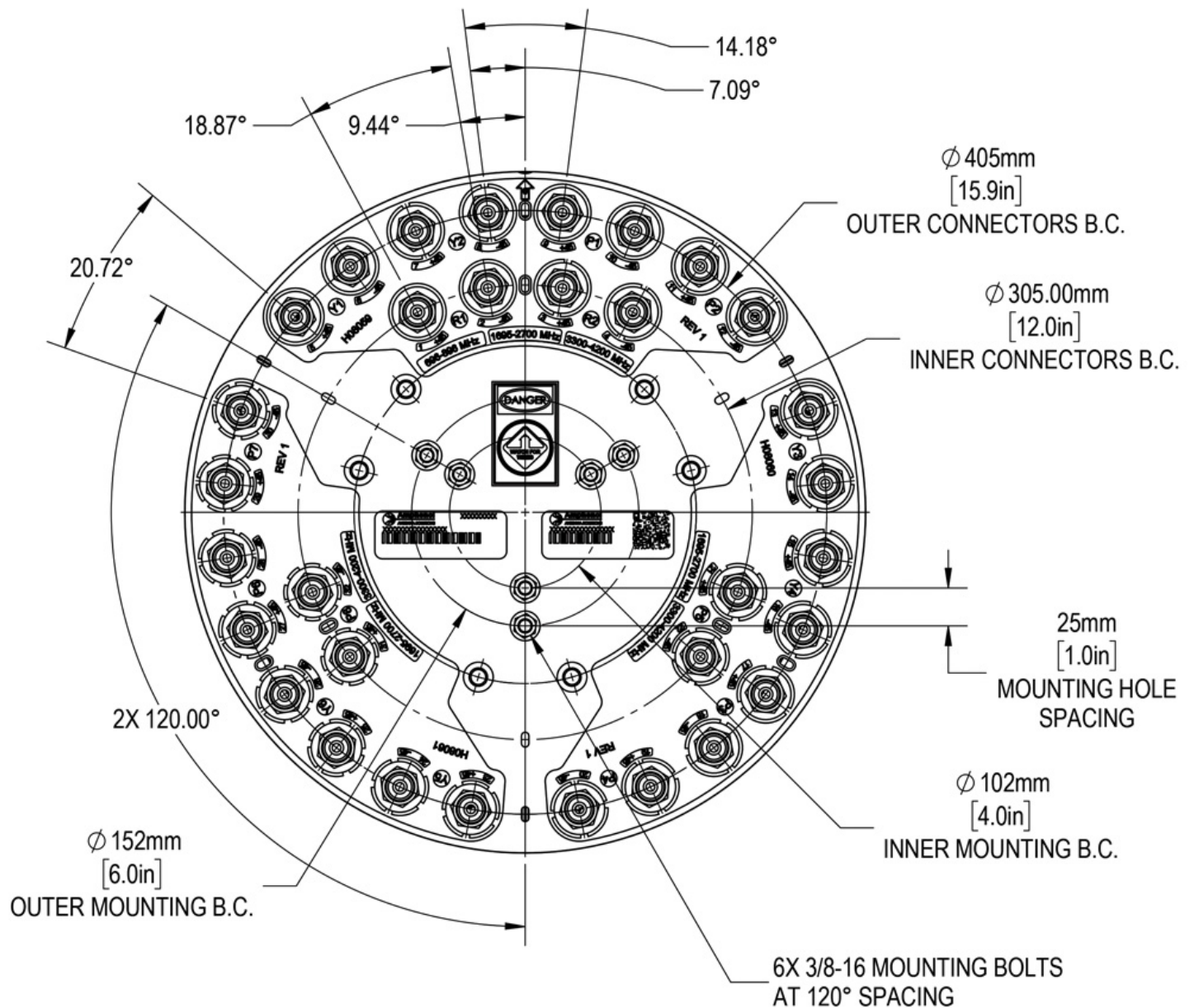
BOTTOM VIEW - LABELING



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2C6U8VT360X12Fwxys5

BOTTOM VIEW - CONNECTOR DIAGRAM



2C6U8VT360X12Fwxys5

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

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2C6U8VT360X12Fwxy^s5

HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

NUMBER OF BANDS & OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BMWDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
2C	6U	8V	T	360	X	12	F	wxy	s	5	BK BR
(2x) 696-960	(6x) 1695-2700	(8x) 3300-4200	Tri-Sector	360°	XPOL	1.2 meters	Fixed Tilt	These letters are placeholders for fixed tilt options. Refer to Electrical Specifications for available tilt options.	4.3-10 Connector	Variations of similar antennas may exist. Please refer to data sheets for specific differences.	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			ANTENNA MODEL
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	
Grey Pantone 420 C	0°	2°	2°	2C6U8VT360X12F022s5
	0°	2°	4°	2C6U8VT360X12F024s5
	0°	2°	6°	2C6U8VT360X12F026s5
	0°	4°	2°	2C6U8VT360X12F042s5
	0°	4°	4°	2C6U8VT360X12F044s5
	0°	4°	6°	2C6U8VT360X12F046s5
	0°	6°	2°	2C6U8VT360X12F062s5
	0°	6°	4°	2C6U8VT360X12F064s5
	0°	6°	6°	2C6U8VT360X12F066s5
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	2C6U8VT360X12F0A2s5
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	2C6U8VT360X12F0B2s5
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	2C6U8VT360X12F0C2s5
	4°	2°	2°	2C6U8VT360X12F422s5
	4°	2°	4°	2C6U8VT360X12F424s5
	4°	2°	6°	2C6U8VT360X12F426s5
	4°	4°	2°	2C6U8VT360X12F442s5
	4°	4°	4°	2C6U8VT360X12F444s5
	4°	4°	6°	2C6U8VT360X12F446s5
	4°	6°	2°	2C6U8VT360X12F462s5
	4°	6°	4°	2C6U8VT360X12F464s5
	4°	6°	6°	2C6U8VT360X12F466s5
	4°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	2C6U8VT360X12F4A2s5
	4°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	2C6U8VT360X12F4B2s5
	4°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	2C6U8VT360X12F4C2s5

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2C6U8VT360X12Fwxys5

ORDERING OPTIONS Select from the following ordering options

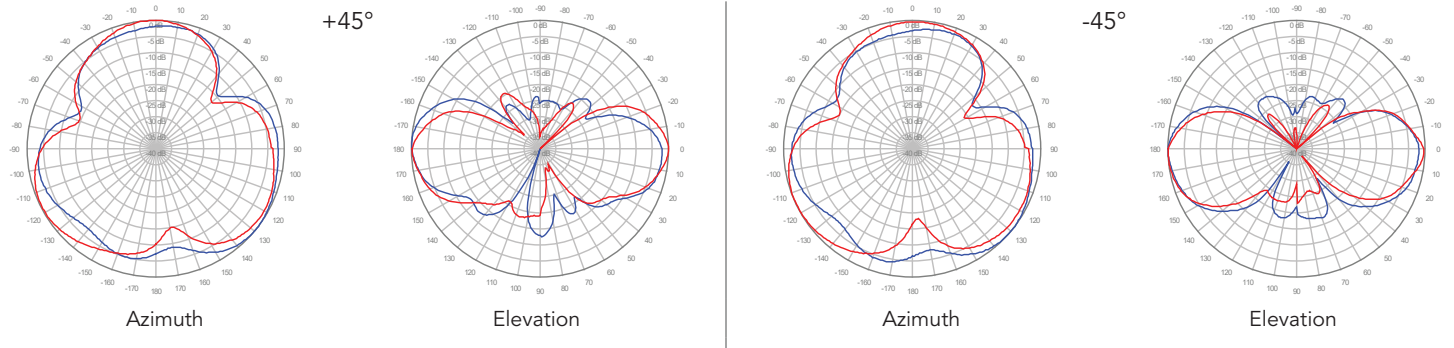
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ANTENNA MODEL
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	
Brown Pantone 476 C	0°	2°	2°	2C6U8VT360X12F022s5BR
	0°	2°	4°	2C6U8VT360X12F024s5BR
	0°	2°	6°	2C6U8VT360X12F026s5BR
	0°	4°	2°	2C6U8VT360X12F042s5BR
	0°	4°	4°	2C6U8VT360X12F044s5BR
	0°	4°	6°	2C6U8VT360X12F046s5BR
	0°	6°	2°	2C6U8VT360X12F062s5BR
	0°	6°	4°	2C6U8VT360X12F064s5BR
	0°	6°	6°	2C6U8VT360X12F066s5BR
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	2C6U8VT360X12F0A2s5BR
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	2C6U8VT360X12F0B2s5BR
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	2C6U8VT360X12F0C2s5BR
	4°	2°	2°	2C6U8VT360X12F422s5BR
	4°	2°	4°	2C6U8VT360X12F424s5BR
	4°	2°	6°	2C6U8VT360X12F426s5BR
	4°	4°	2°	2C6U8VT360X12F442s5BR
	4°	4°	4°	2C6U8VT360X12F444s5BR
	4°	4°	6°	2C6U8VT360X12F446s5BR
	4°	6°	2°	2C6U8VT360X12F462s5BR
	4°	6°	4°	2C6U8VT360X12F464s5BR
	4°	6°	6°	2C6U8VT360X12F466s5BR
	4°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	2C6U8VT360X12F4A2s5BR
	4°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	2C6U8VT360X12F4B2s5BR
	4°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	2C6U8VT360X12F4C2s5BR
Black RAL 9011	0°	2°	2°	2C6U8VT360X12F022s5BK
	0°	2°	4°	2C6U8VT360X12F024s5BK
	0°	2°	6°	2C6U8VT360X12F026s5BK
	0°	4°	2°	2C6U8VT360X12F042s5BK
	0°	4°	4°	2C6U8VT360X12F044s5BK
	0°	4°	6°	2C6U8VT360X12F046s5BK
	0°	6°	2°	2C6U8VT360X12F062s5BK
	0°	6°	4°	2C6U8VT360X12F064s5BK
	0°	6°	6°	2C6U8VT360X12F066s5BK
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	2C6U8VT360X12F0A2s5BK
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	2C6U8VT360X12F0B2s5BK
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	2C6U8VT360X12F0C2s5BK
	4°	2°	2°	2C6U8VT360X12F422s5BK
	4°	2°	4°	2C6U8VT360X12F424s5BK
	4°	2°	6°	2C6U8VT360X12F426s5BK
	4°	4°	2°	2C6U8VT360X12F442s5BK
	4°	4°	4°	2C6U8VT360X12F444s5BK
	4°	4°	6°	2C6U8VT360X12F446s5BK
	4°	6°	2°	2C6U8VT360X12F462s5BK
	4°	6°	4°	2C6U8VT360X12F464s5BK
	4°	6°	6°	2C6U8VT360X12F466s5BK
	4°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	2C6U8VT360X12F4A2s5BK
	4°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	2C6U8VT360X12F4B2s5BK
	4°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	2C6U8VT360X12F4C2s5BK

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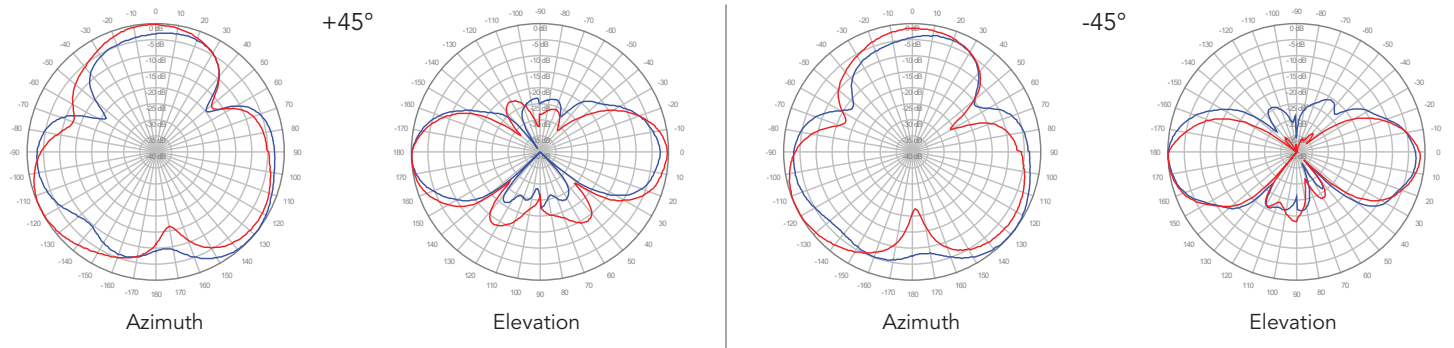
2C6U8VT360X12Fwxys5

750 MHz ————
850 MHz ————

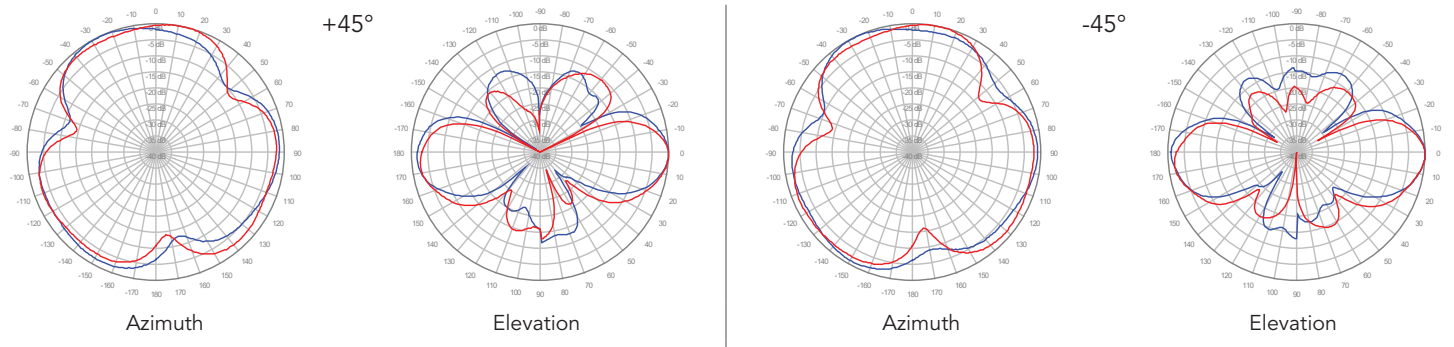
■ R1, 0° TILT



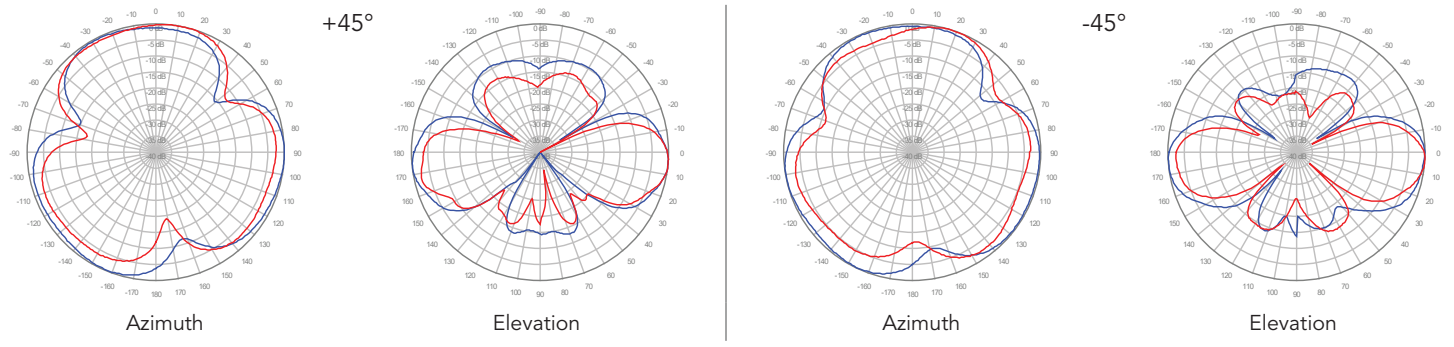
■ R2, 0° TILT



■ R1, 4° TILT



■ R2, 4° TILT

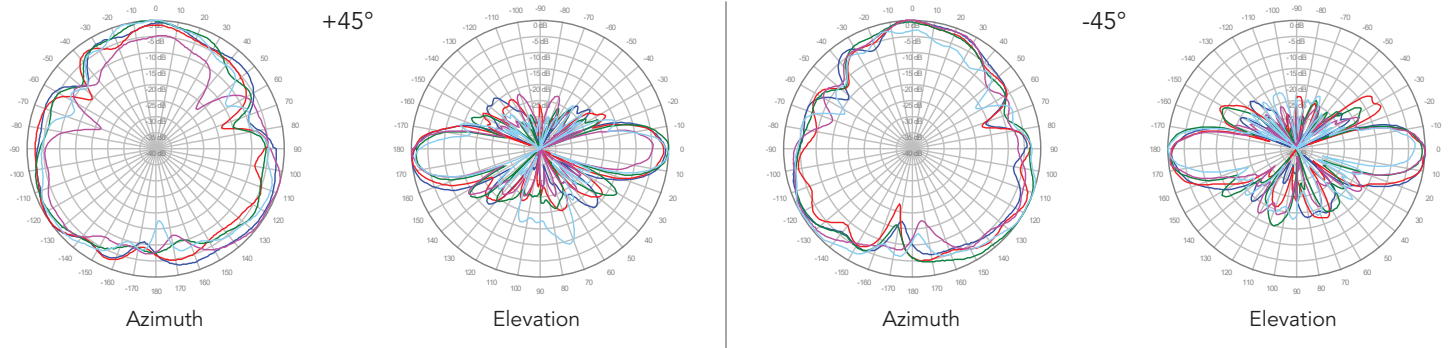


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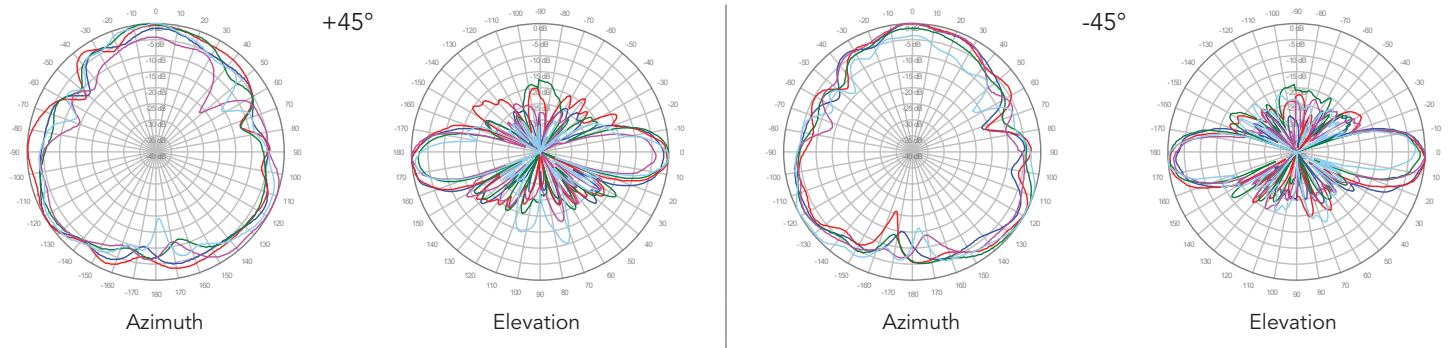
2C6U8VT360X12Fwxys5

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

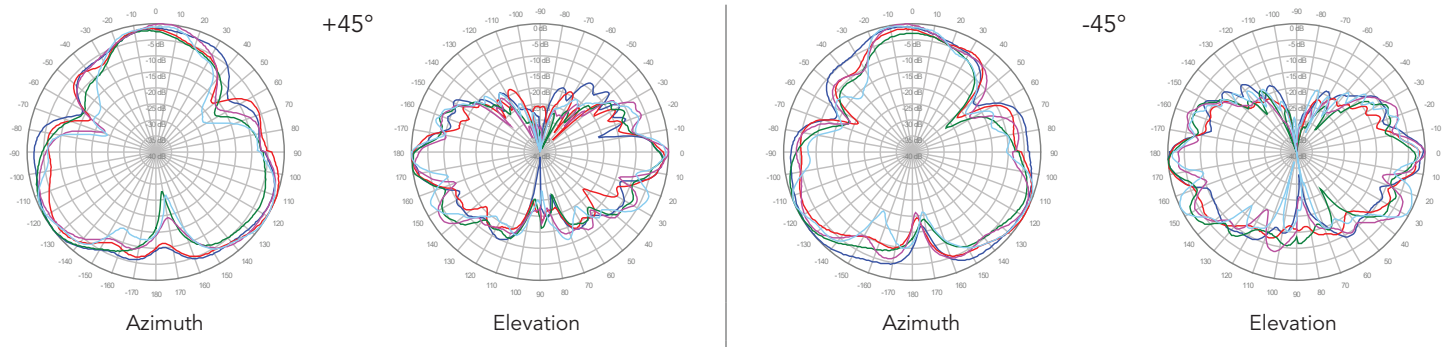
Y1, 2° TILT



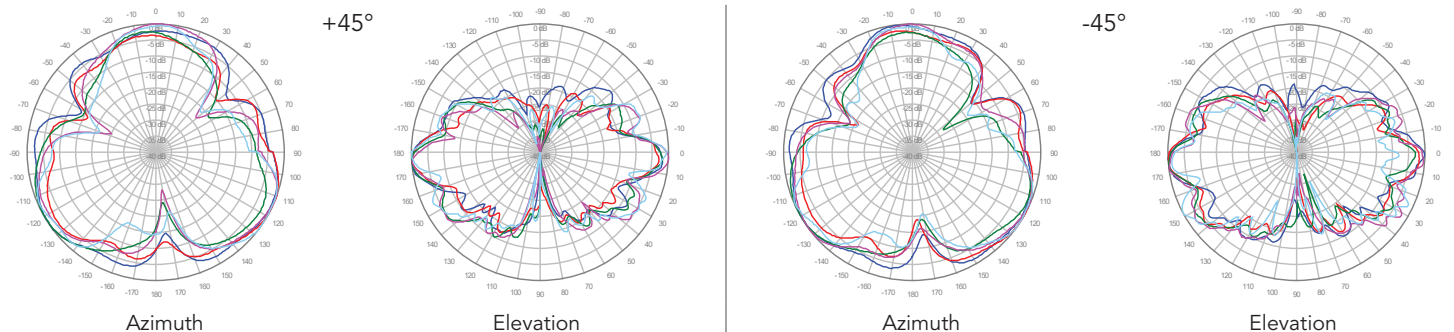
Y2, 2° TILT



Y3, 2° TILT



Y4, 2° TILT



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OMNI

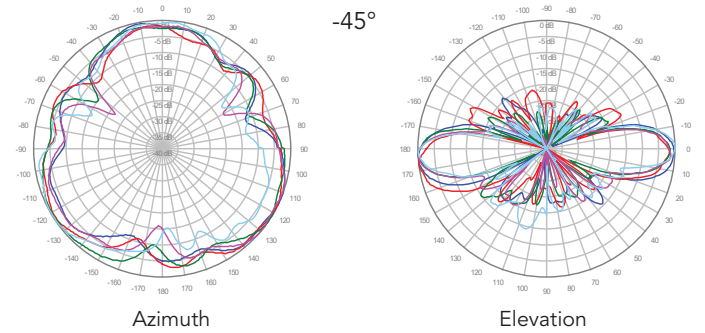
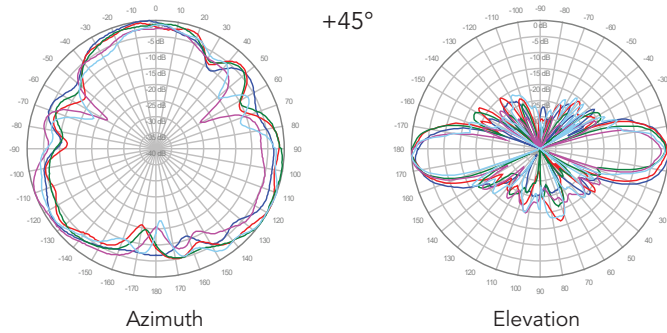
48.0 IN

FIXED TILT

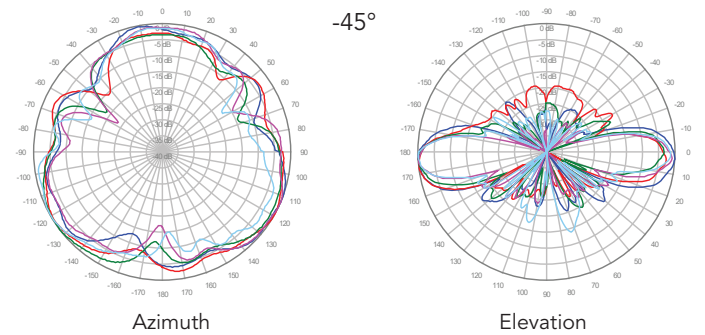
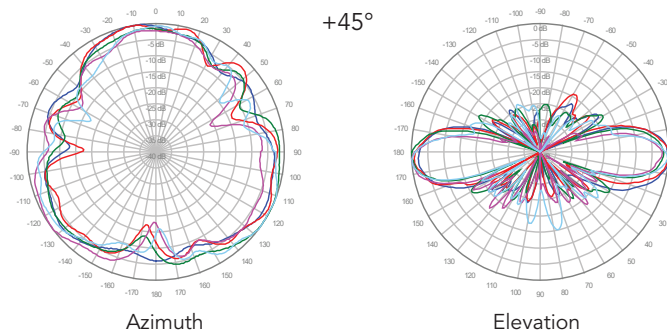
2C6U8VT360X12Fwxys5

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

■ Y5, 2° TILT



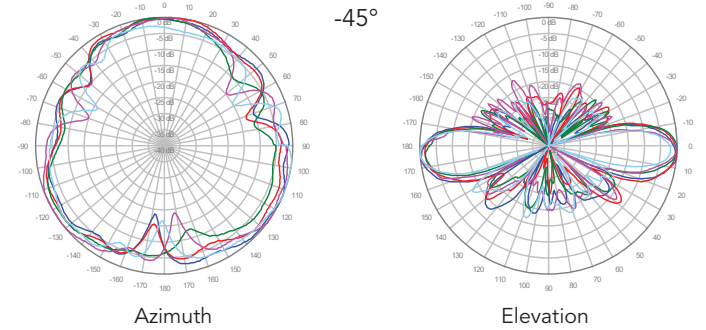
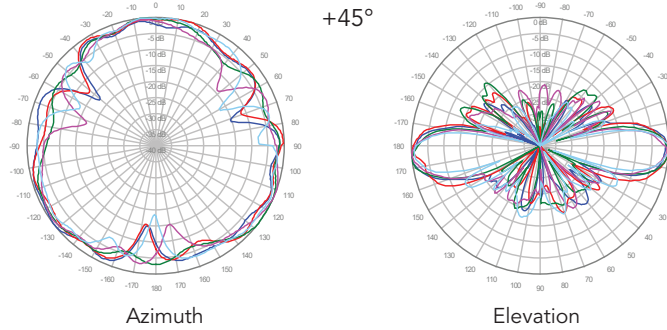
■ Y6, 2° TILT



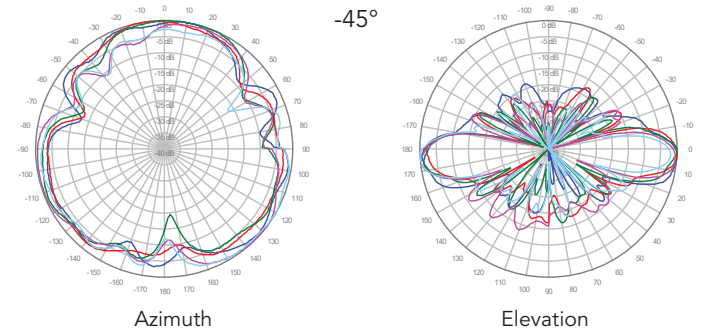
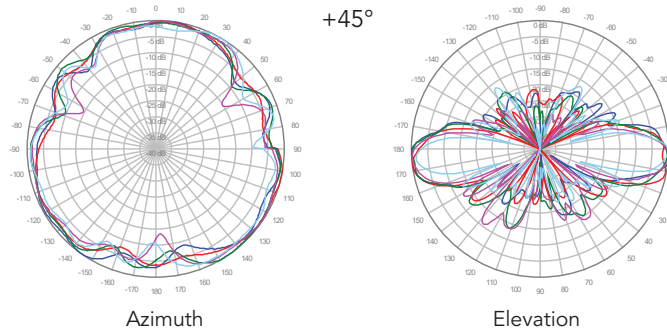
2C6U8VT360X12Fwxys5

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

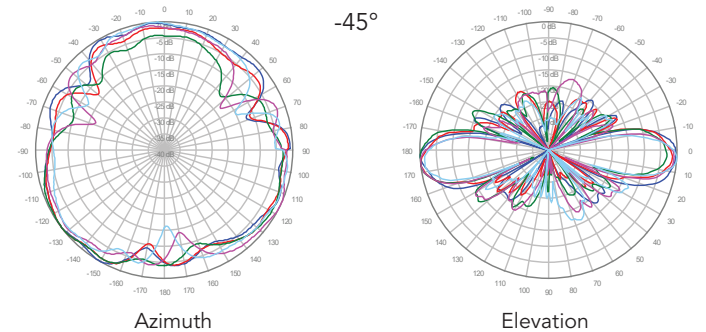
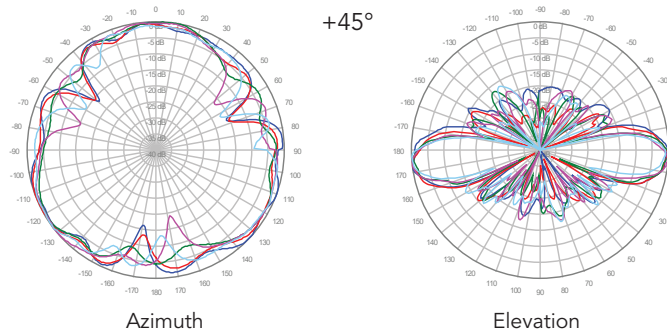
■ Y1, 4° TILT



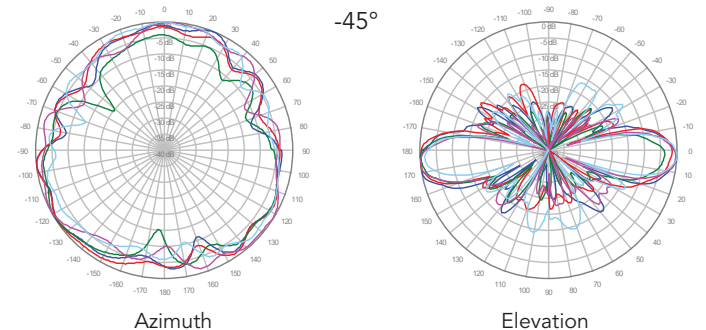
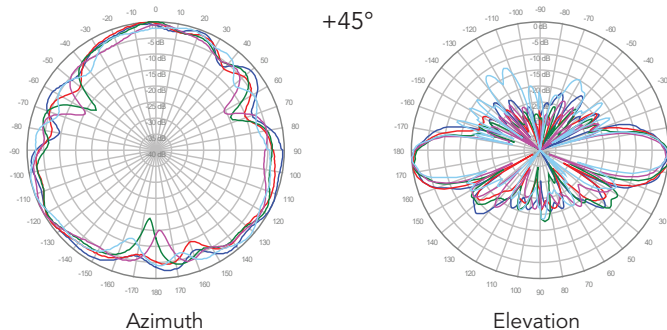
■ Y2, 4° TILT



■ Y3, 4° TILT



■ Y4, 4° TILT

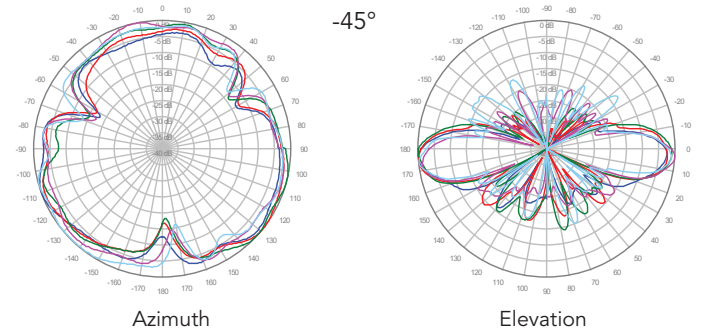
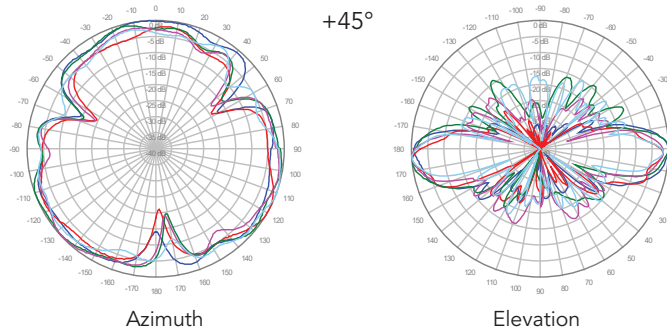


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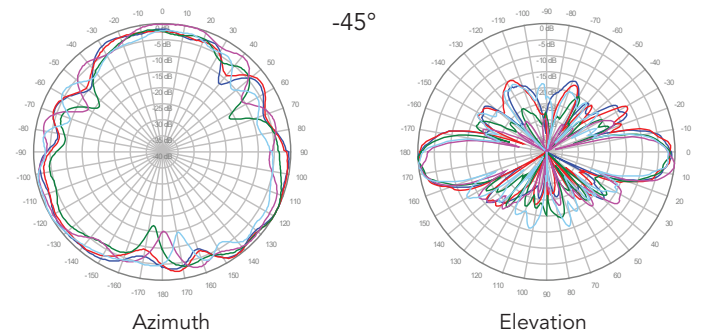
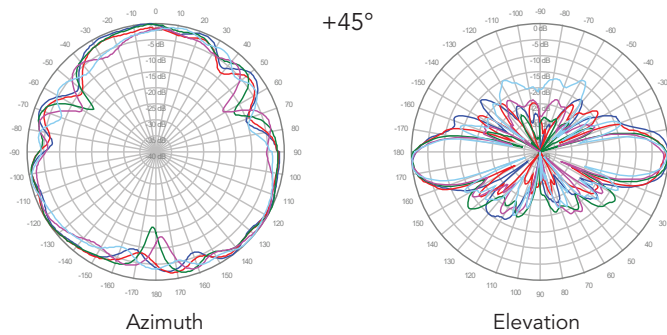
2C6U8VT360X12Fwxys5

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

■ Y5, 4° TILT



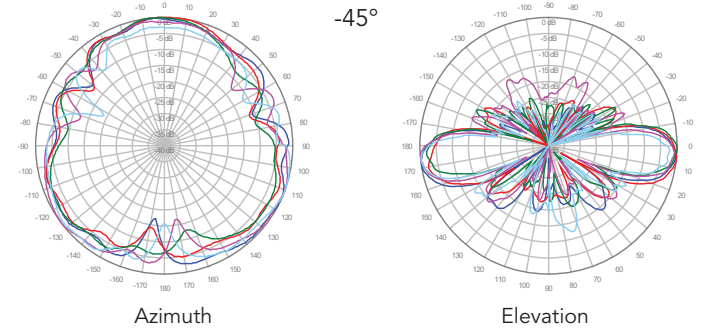
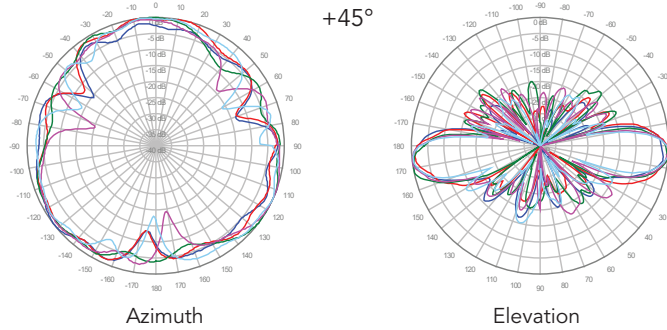
■ Y6, 4° TILT



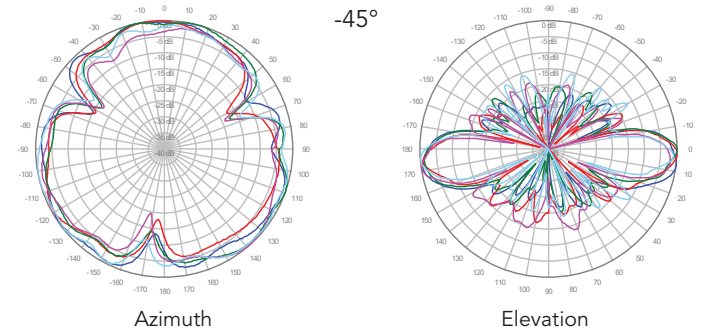
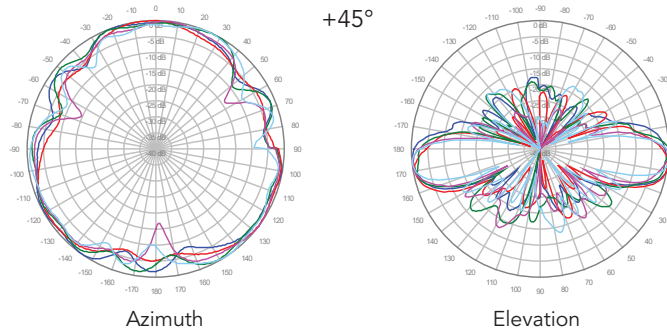
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1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

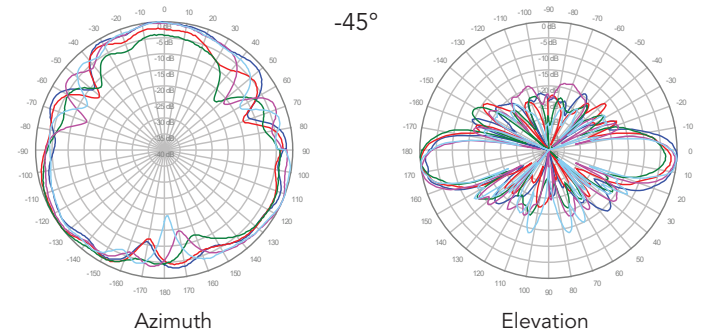
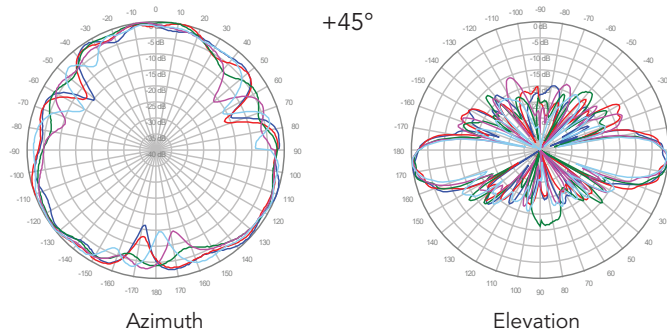
Y1, 6° TILT



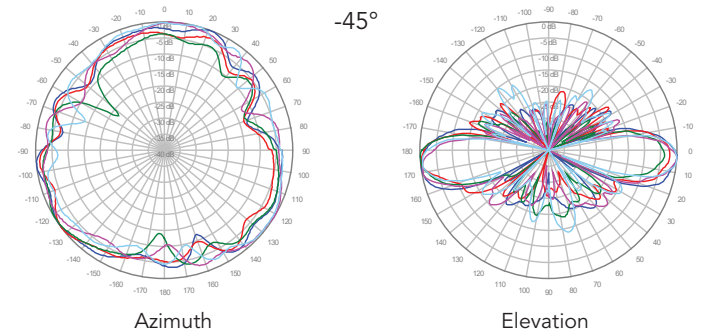
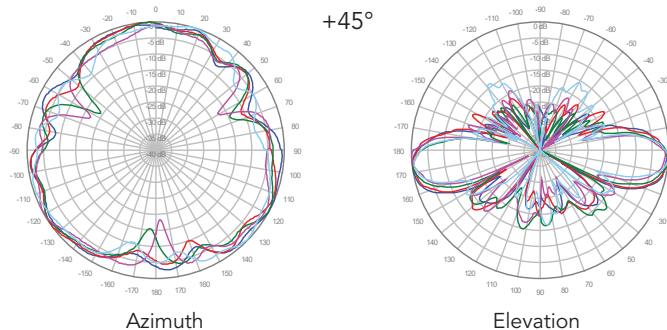
Y2, 6° TILT



Y3, 6° TILT



Y4, 6° TILT



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OMNI

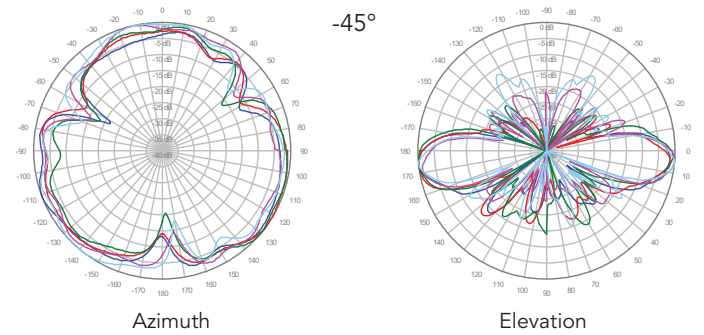
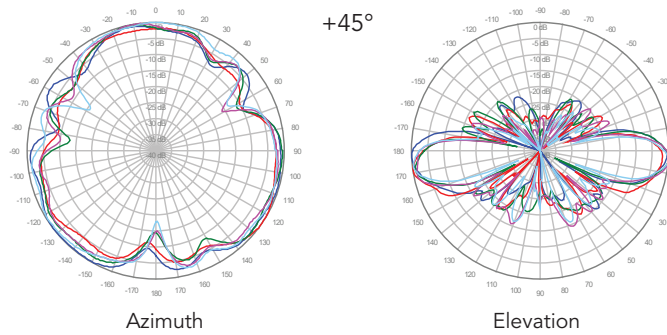
48.0 IN

FIXED TILT

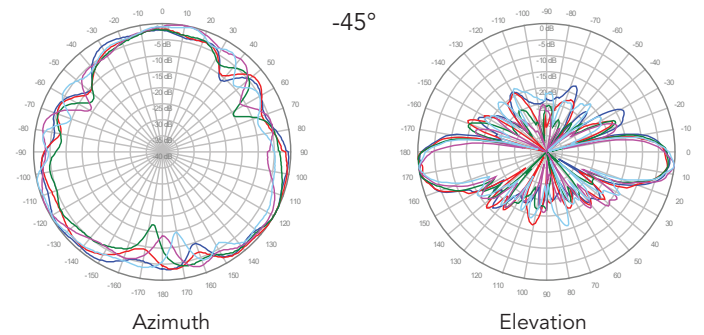
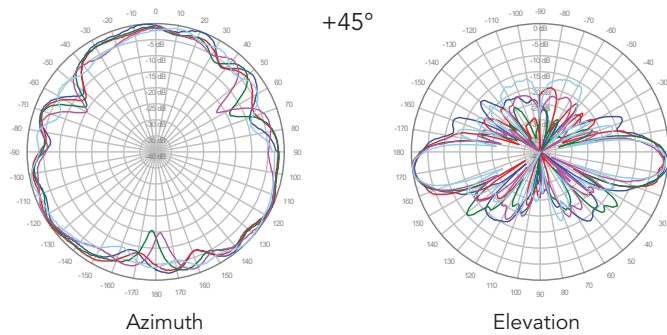
2C6U8VT360X12Fwxys5

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

■ Y5, 6° TILT



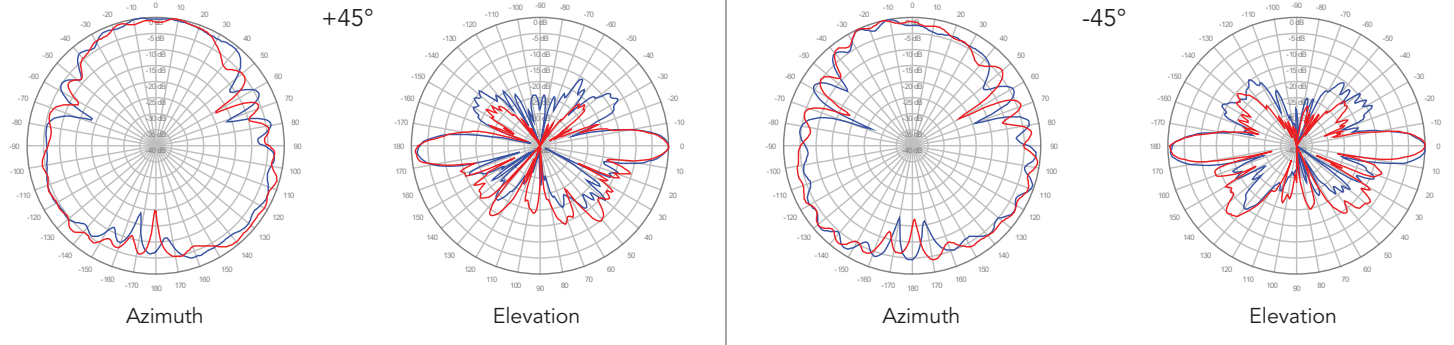
■ Y6, 6° TILT



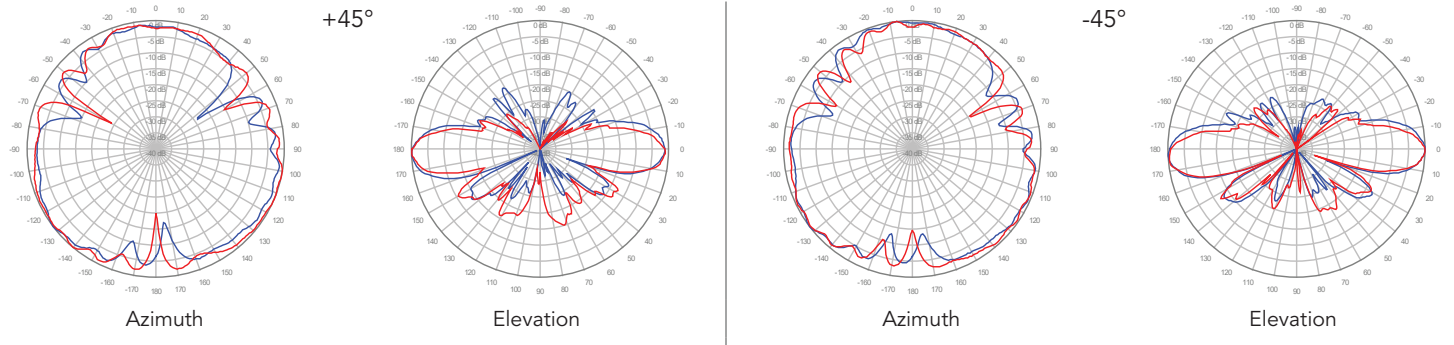
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3600 MHz ————
4000 MHz ————

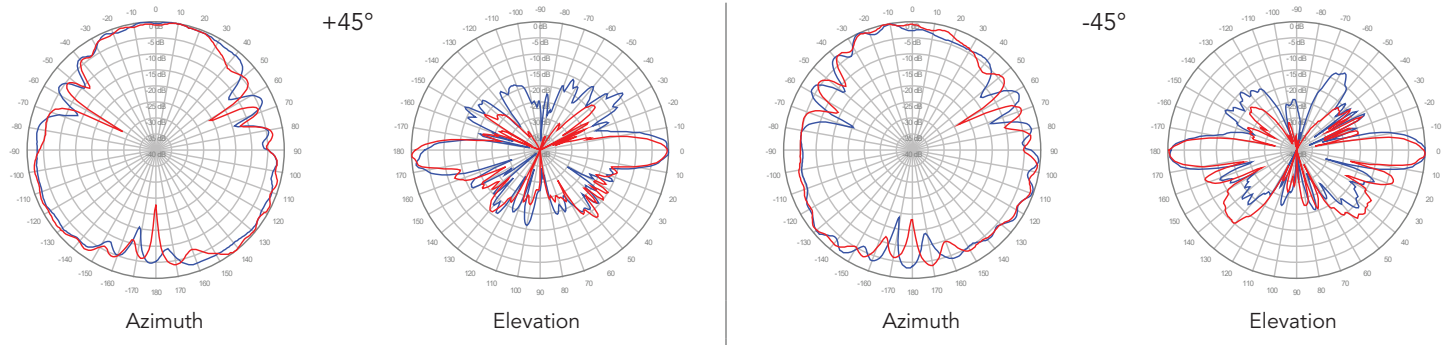
P1, 2° TILT



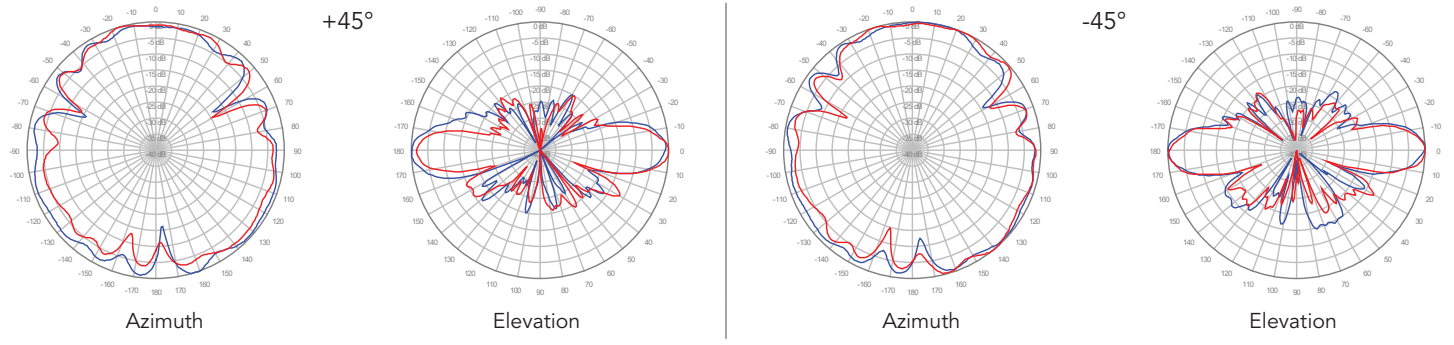
P2, 2° TILT



P3, 2° TILT



P4, 2° TILT

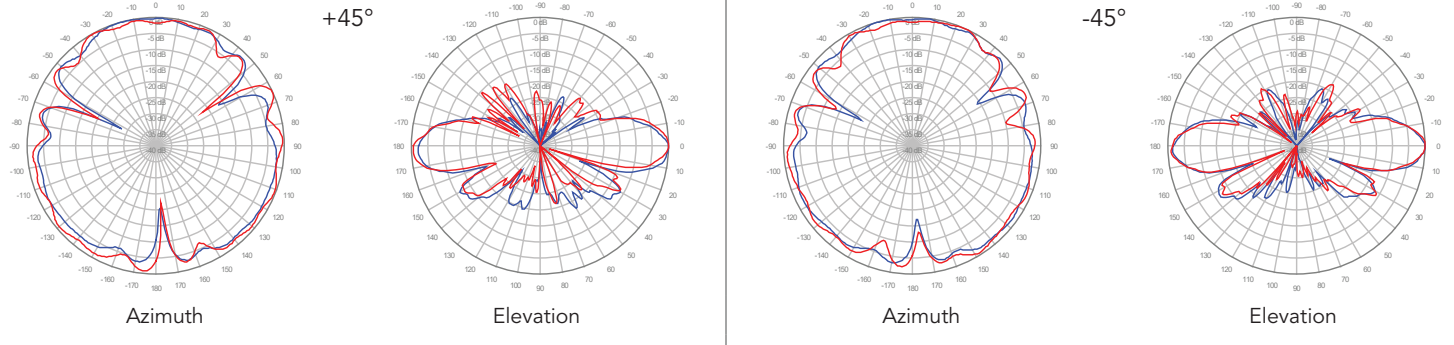


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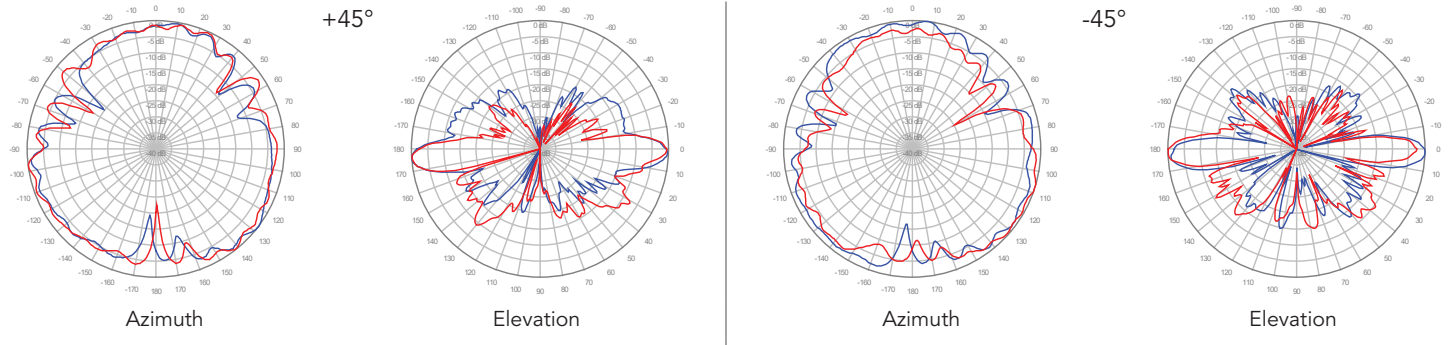
2C6U8VT360X12Fwxys5

3600 MHz ————
4000 MHz ————

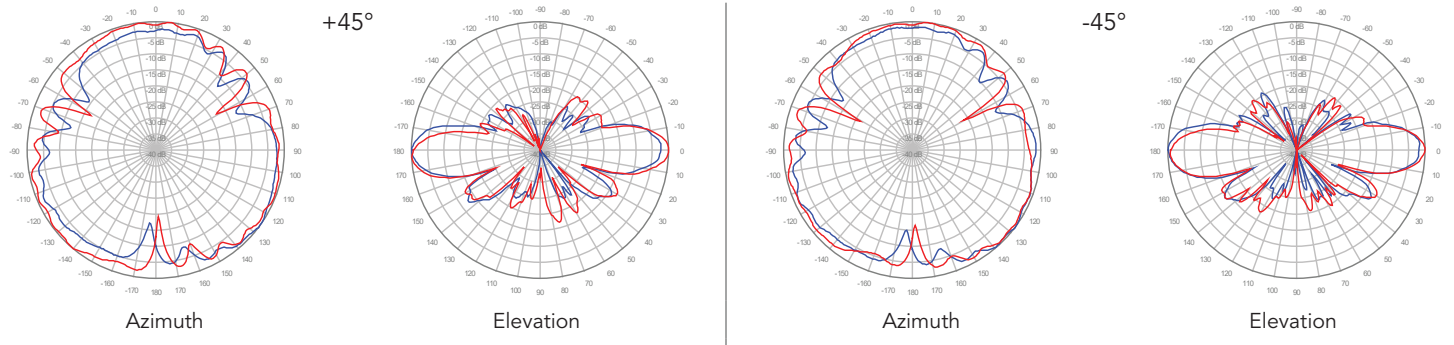
P5, 2° TILT



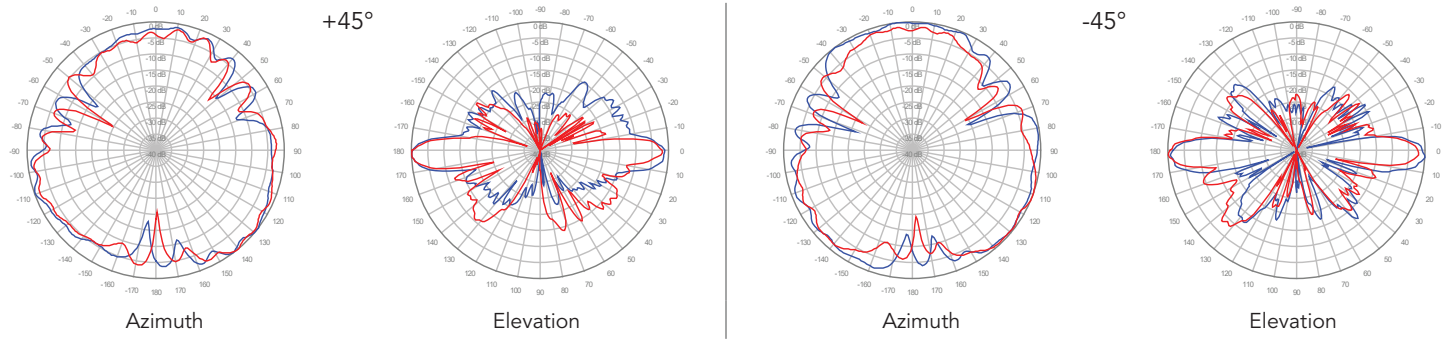
P6, 2° TILT



P7, 2° TILT



P8, 2° TILT

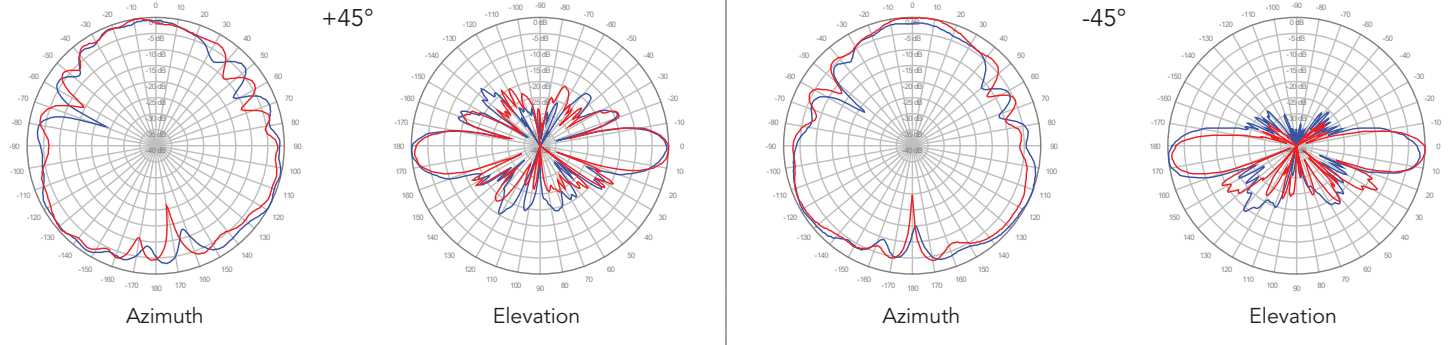


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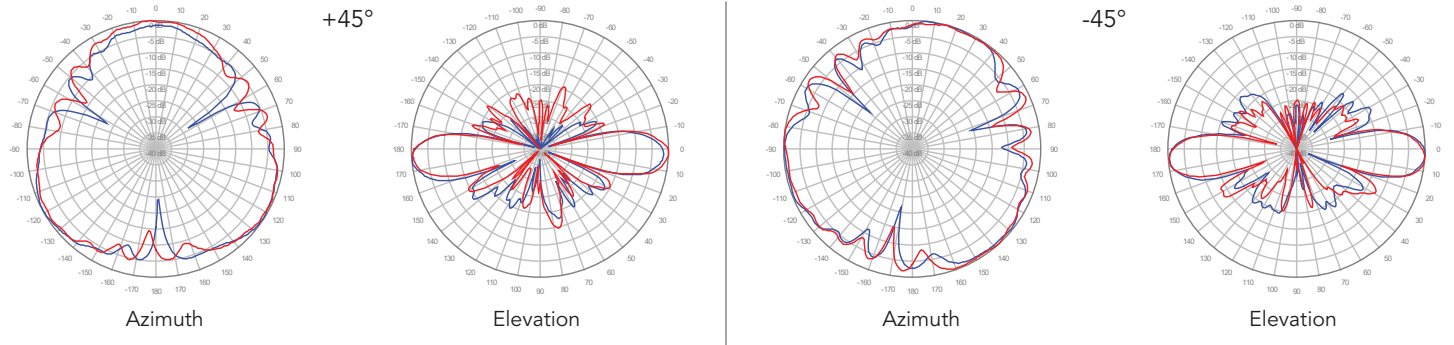
2C6U8VT360X12Fwxys5

3600 MHz ————
4000 MHz ————

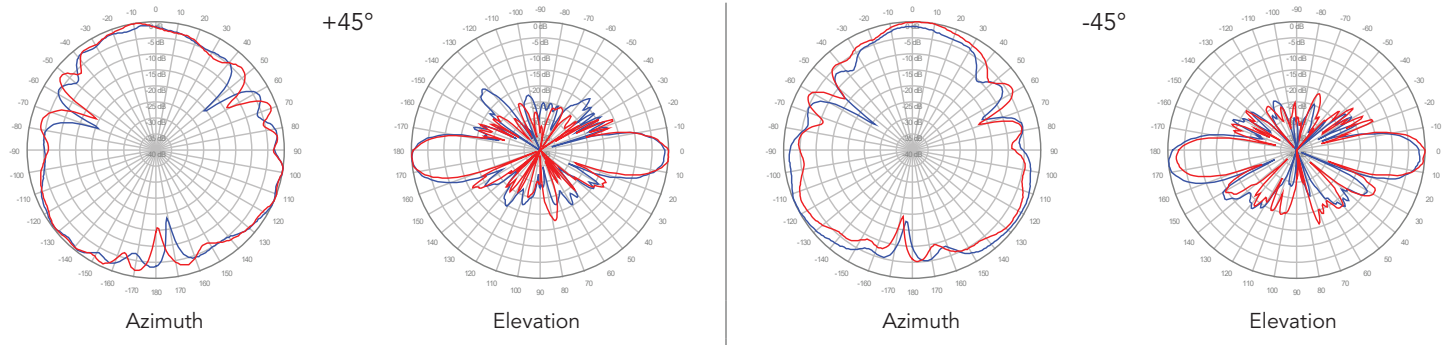
P1, 4° TILT



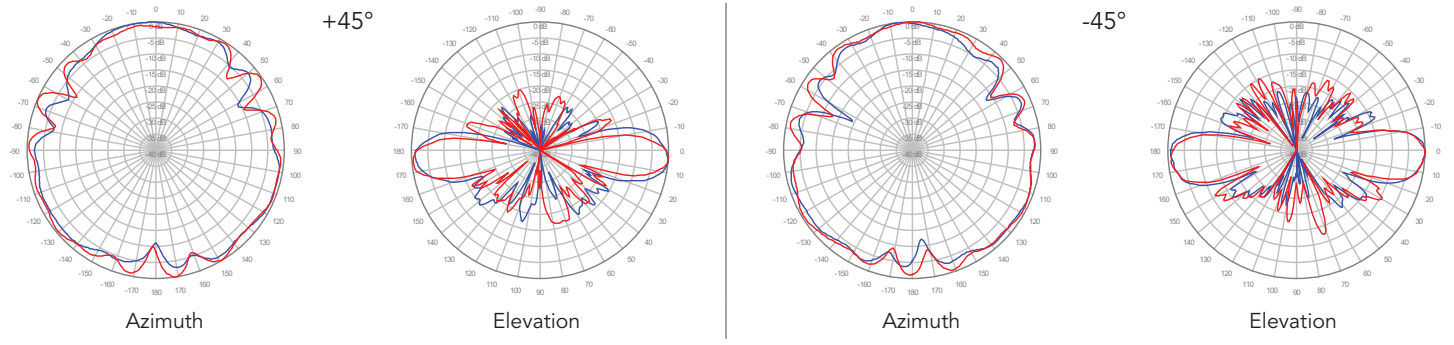
P2, 4° TILT



P3, 4° TILT



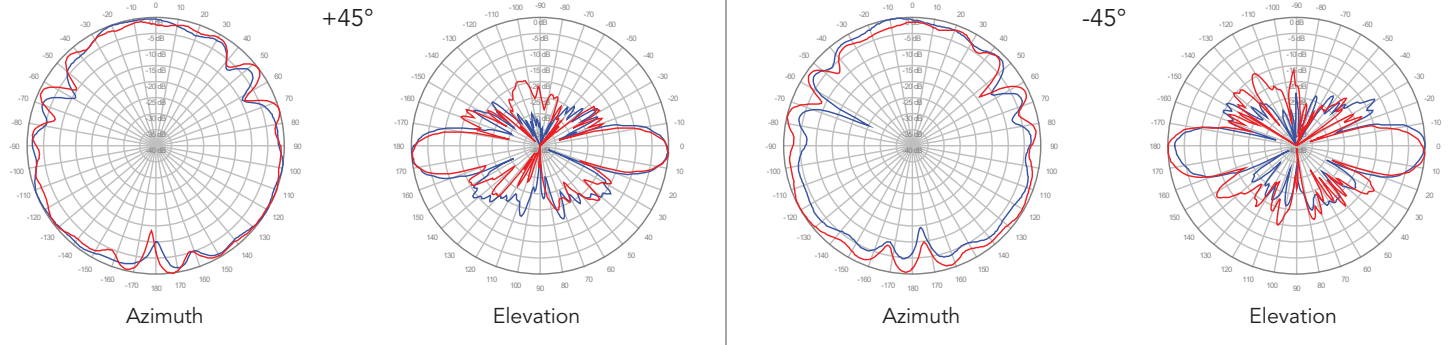
P4, 4° TILT



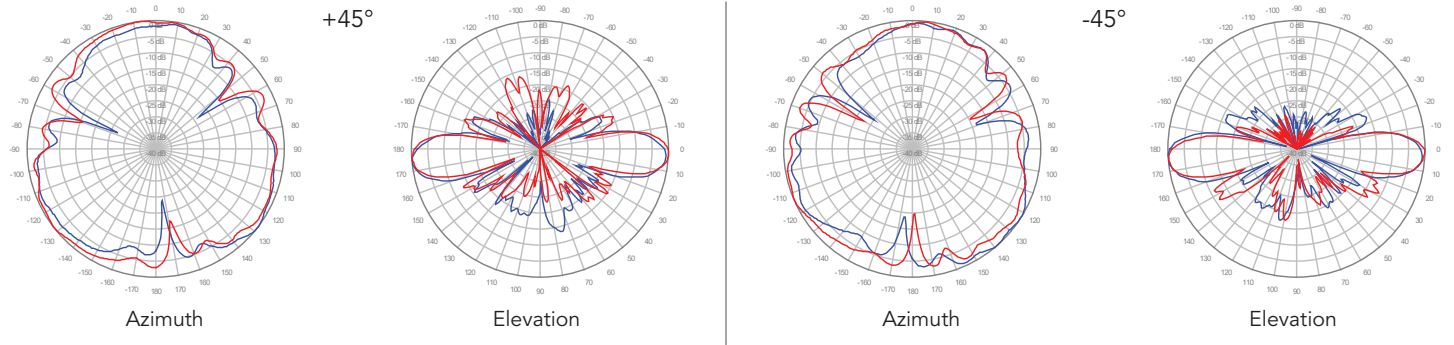
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2C6U8VT360X12Fwxys5

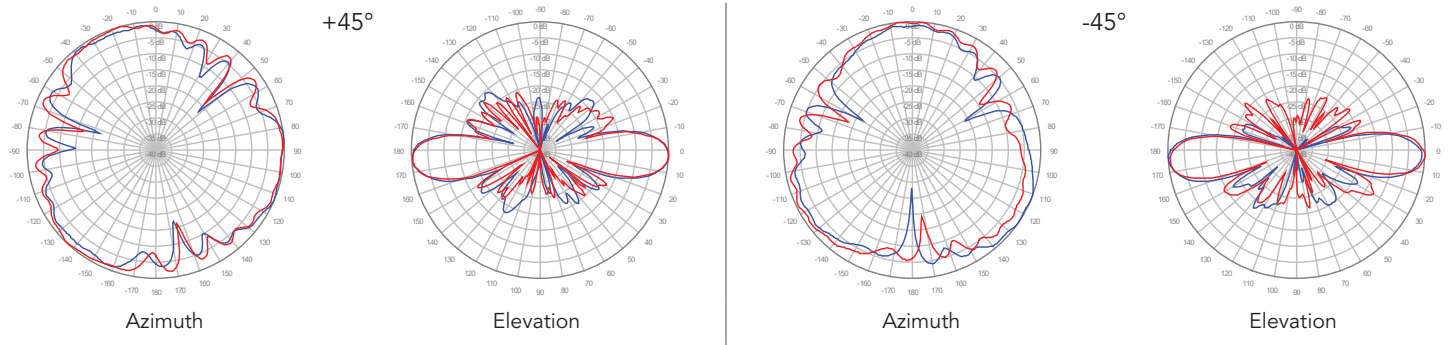
■ P5, 4° TILT



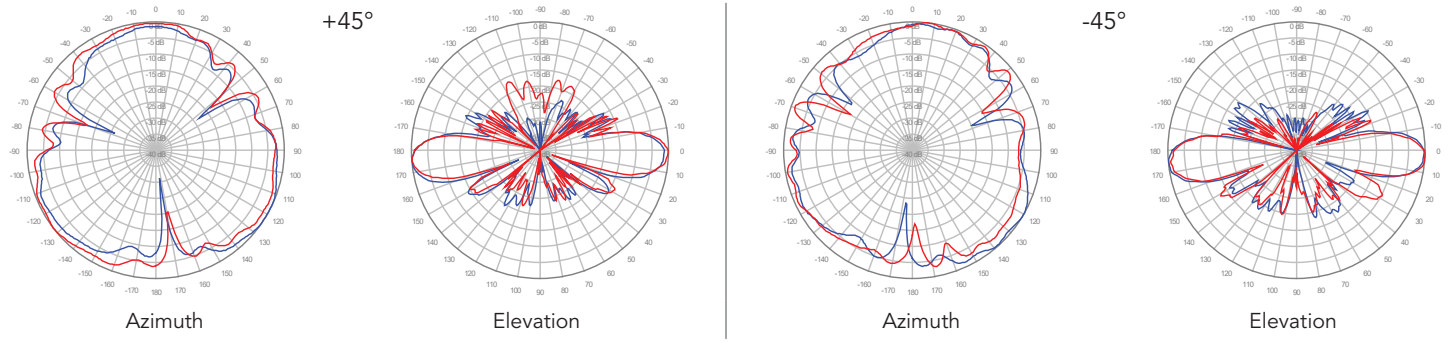
■ P6, 4° TILT



■ P7, 4° TILT



■ P8, 4° TILT

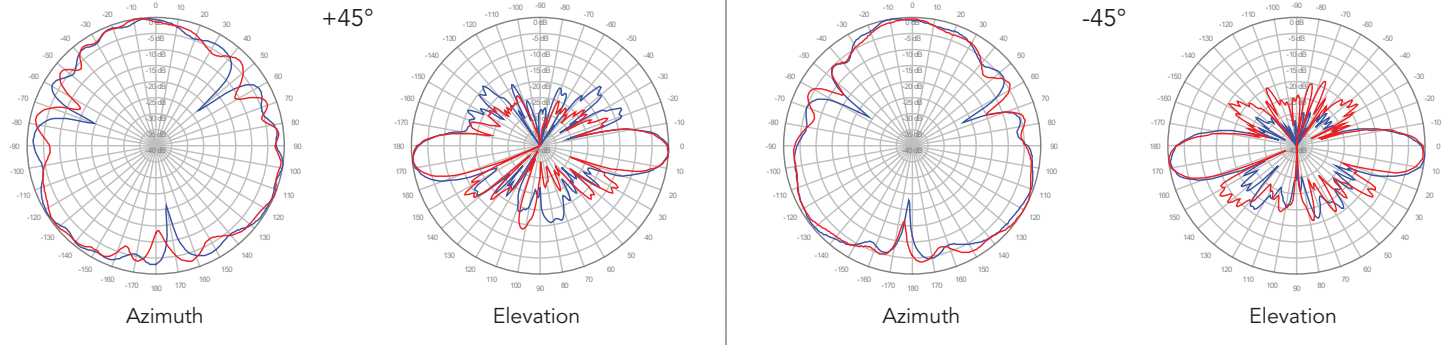


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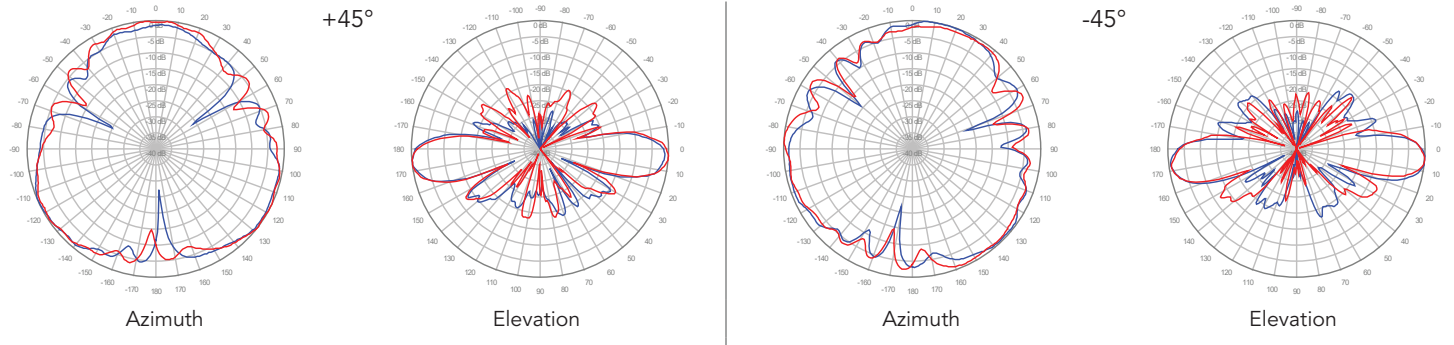
2C6U8VT360X12Fwxys5

3600 MHz ————
4000 MHz ————

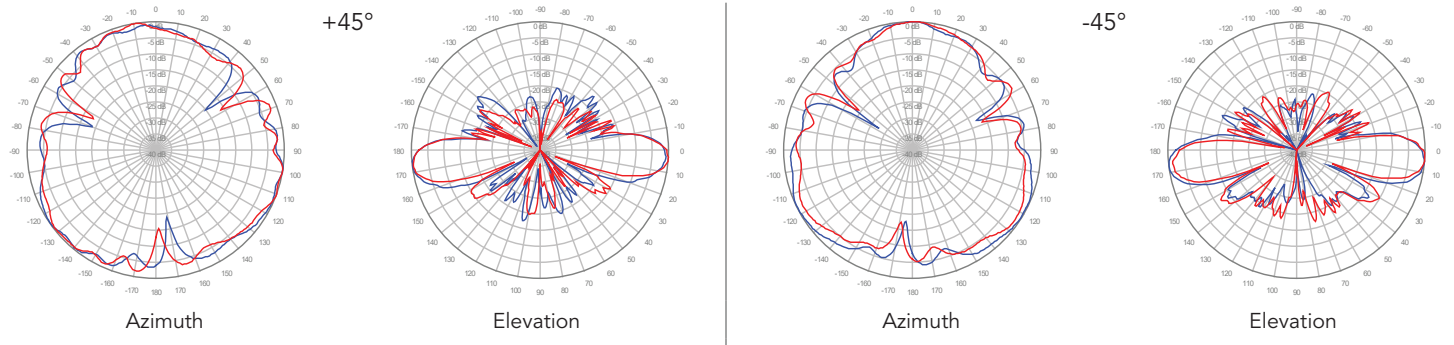
P1, 6° TILT



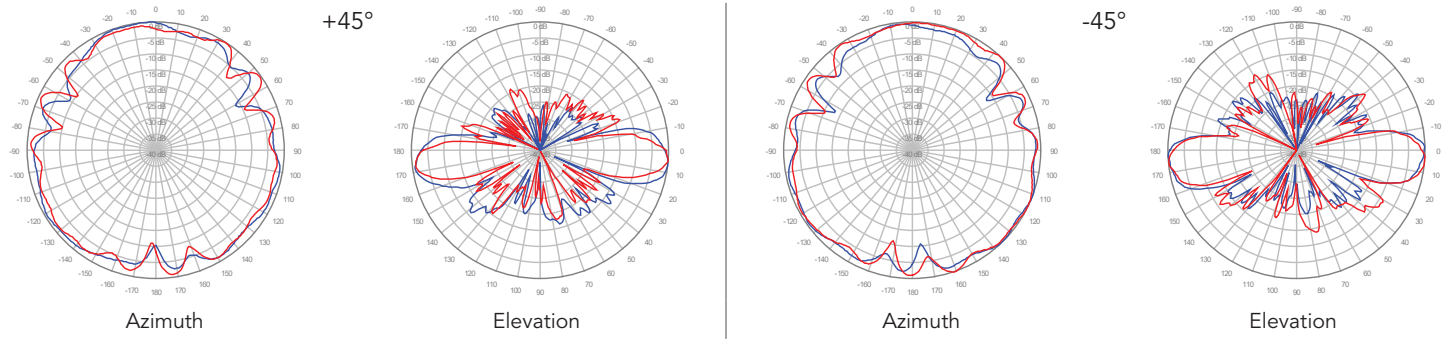
P2, 6° TILT



P3, 6° TILT



P4, 6° TILT



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OMNI

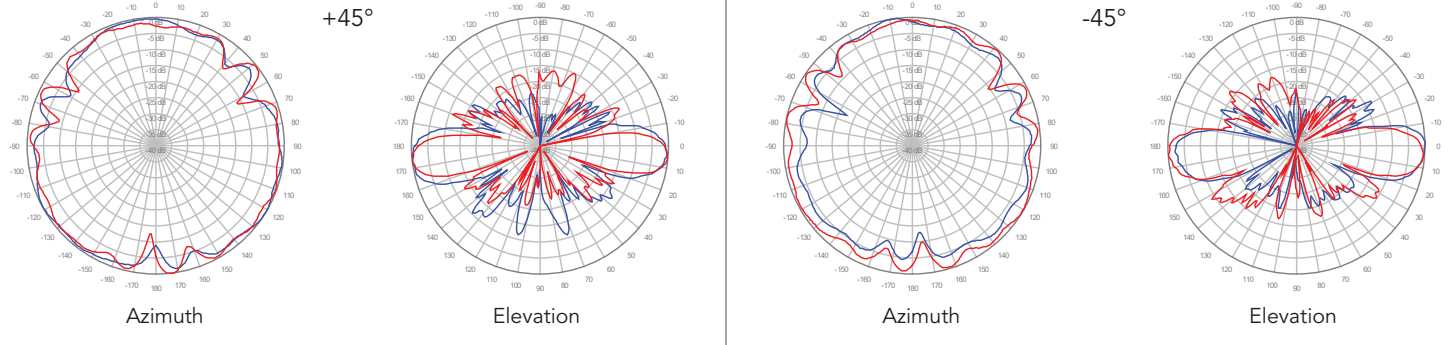
48.0 IN

FIXED TILT

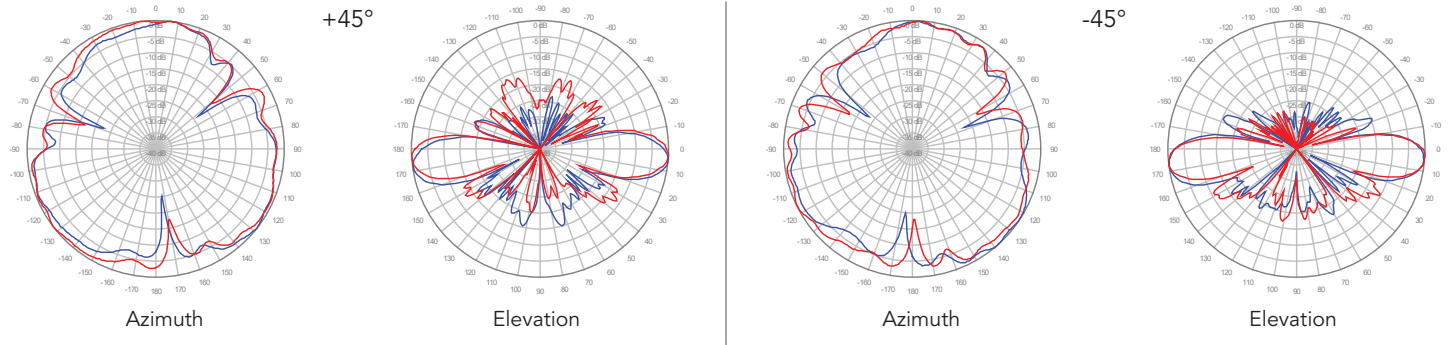
3600 MHz ————
4000 MHz ————

2C6U8VT360X12Fwxys5

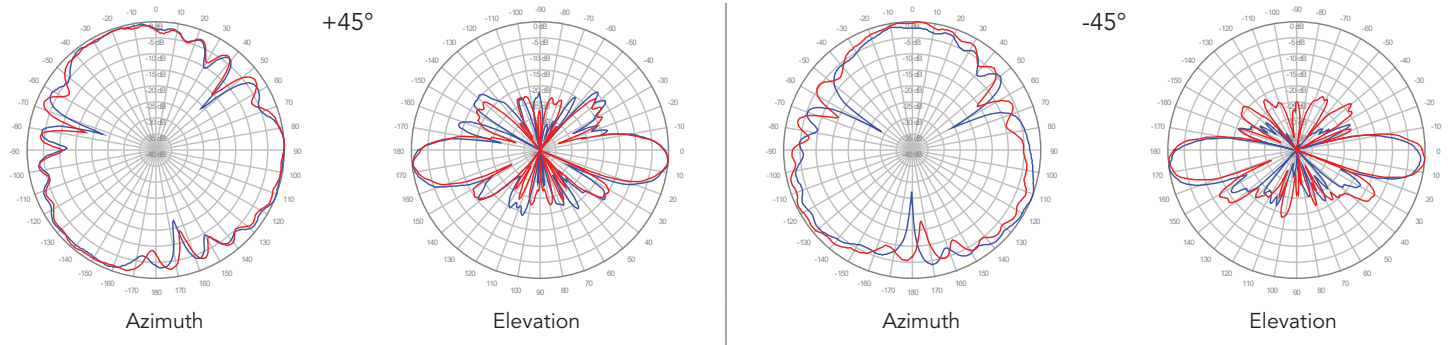
P5, 6° TILT



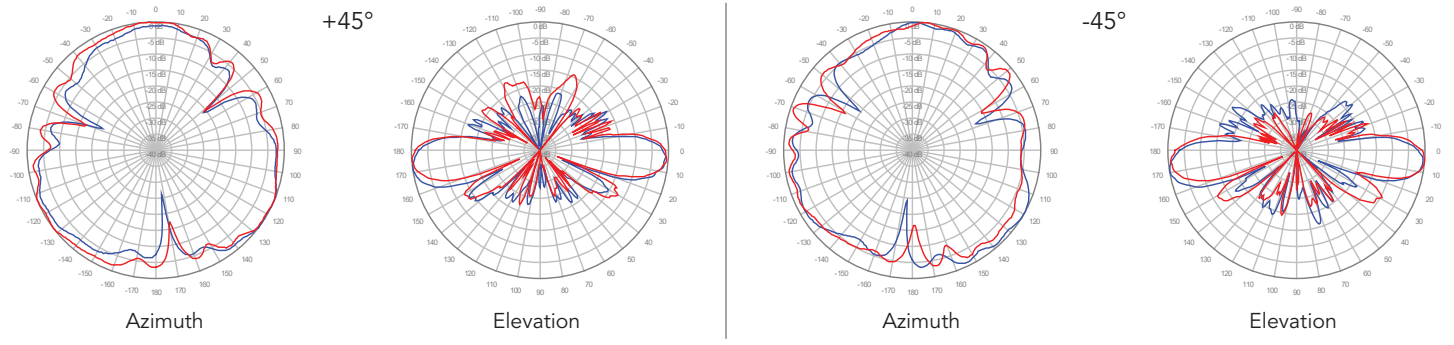
P6, 6° TILT



P7, 6° TILT



P8, 6° TILT



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