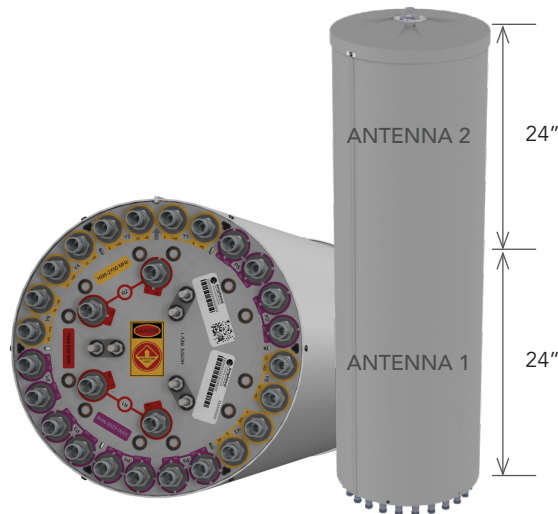


## 2C6U6VT360X12Fwxys5

### Features

- Pseudo omni configuration with 28 connectors
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 696-960, 1695-2700 and 3300-4200 MHz
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR
- Available for order with a grey, brown or black radome



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)	360°	360°	360°
	Electrical Downtilt	0°	0°, 2°, 4°, 6°	0°, 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)	6800 WATTS		
	Connector Type	(28x) 4.3-10 FEMALE		
	Dimensions	1208.4 x Ø371 mm (47.6 x Ø14.6 in)		
	Radome Color Options	GREY, BROWN or BLACK		

### ELECTRICAL SPECIFICATIONS

■ R1 ■ R2

Frequency Range		MHz	(2x) 696-960	
Frequency Sub-Range		MHz	696-806	806-960
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	4.0 ± 0.8	4.2 ± 0.7
	MAX	dBi	4.8	4.9
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	60.7° ± 13.8°	51.6° ± 12.6°
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	N/A
Isolation	Intraband	dB	> 25	
	Interband	dB	> 28 same band; > 30 different band	

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## 2C6U6VT360X12Fwxys5

### 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	$8.4 \pm 1.5$	$9.9 \pm 1.7$	$10.0 \pm 1.5$
	MAX	dBi	9.9	11.6	11.5
Azimuth Beamwidth (3 dB)	degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)	degrees	$19.1^\circ \pm 2.3^\circ$	$18.2^\circ \pm 1.9^\circ$	$17.3^\circ \pm 1.8^\circ$	$14.5^\circ \pm 1.4^\circ$
Electrical Downtilt	degrees	(x) $0^\circ, 2^\circ, 4^\circ, 6^\circ$			
Impedance	Ohms	50Ω			
VSWR	---	$\leq 1.5:1$			
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

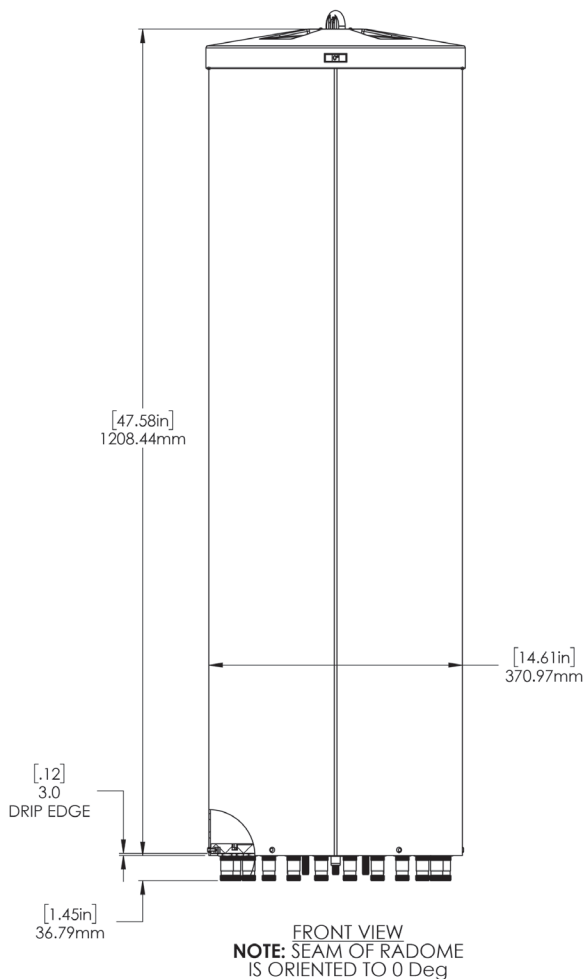
Frequency Range		MHz	(6x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(6x) ±45°		
Gain	BASTA	dBi	10.2 ± 1.2	11.1 ± 0.9	11.6 ± 0.8
	MAX	dBi	11.4	12.0	12.4
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	3.6° ± 3.2°	4.2° ± 3.1°	5.2° ± 2.9°
Electrical Downtilt		degrees	(y) 0°, 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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## 2C6U6VT360X12Fwxys5

### MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	1208.4 (47.6)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	20.4 (45.0)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	391 (88)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m <sup>2</sup> (ft <sup>2</sup> )	0.47 (5.0)
Volume	Total	m <sup>3</sup> (ft <sup>3</sup> )	0.13 (4.7)
	Each Antenna	m <sup>3</sup> (ft <sup>3</sup> )	0.065 (2.33)
Connector	Type	---	(28x) 4.3-10 Female
	Position	---	Bottom
Radome Color		---	Grey (RAL 7035) Brown (RAL 8022) Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground

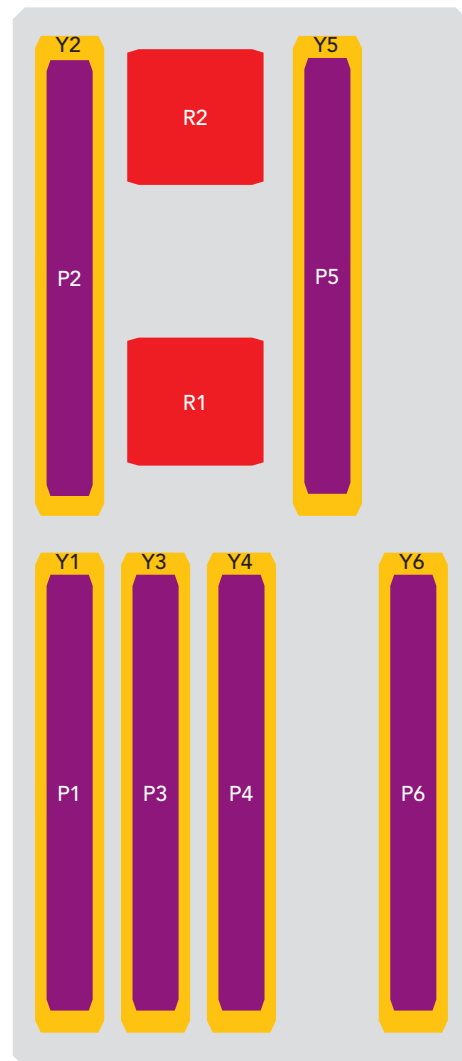


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## 2C6U6VT360X12Fwxys5

### ARRAY LAYOUT Topology

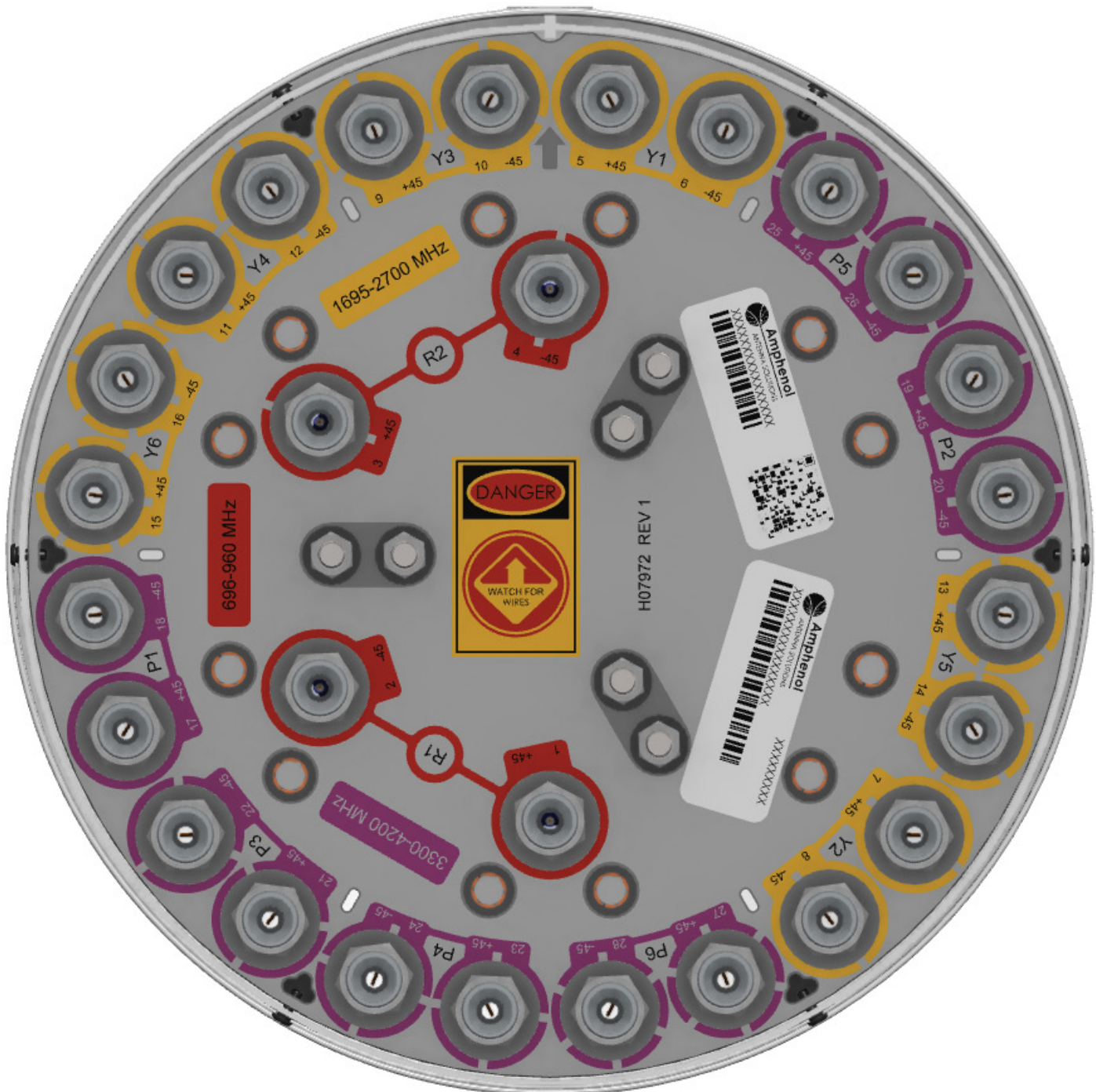
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	<span style="color: red;">■</span> R1	1-2	(2x) 4.3-10 Female
696-960 MHz	<span style="color: red;">■</span> R2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y1	5-6	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y2	7-8	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y3	9-10	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y4	11-12	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y5	13-14	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y6	15-16	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P1	17-18	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P2	19-20	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P3	21-22	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P4	23-24	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P5	25-26	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P6	27-28	(2x) 4.3-10 Female



*The illustration is not shown to scale.*

## 2C6U6VT360X12Fwxys5

### BOTTOM VIEW - LABELING

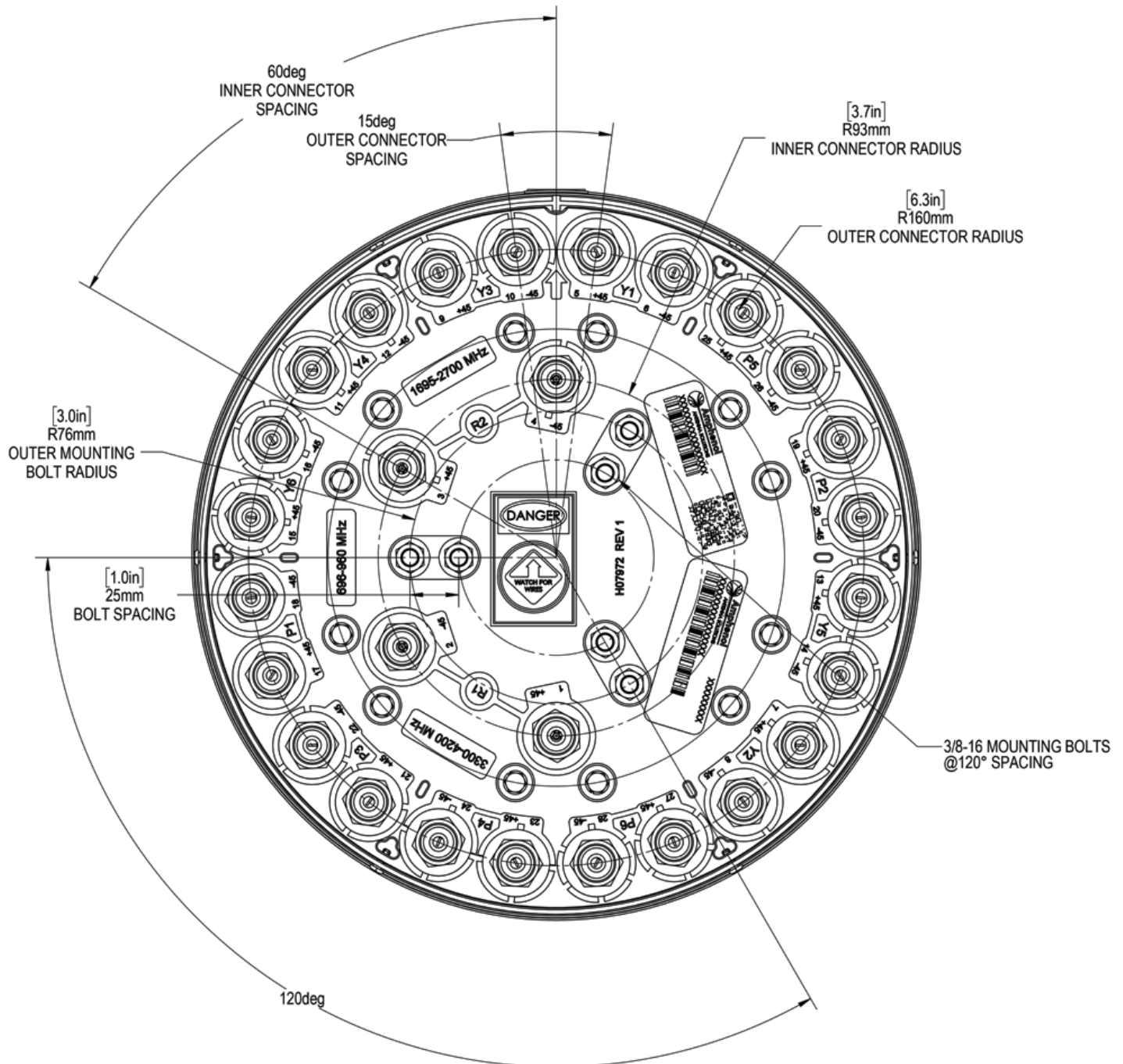


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## 2C6U6VT360X12Fwxys5

### BOTTOM VIEW - CONNECTOR DIAGRAM



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## 2C6U6VT360X12Fwxys5

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

MODEL NUMBER		DESCRIPTION
CWT-MKS-SIDE		SIDE MOUNTING BRACKET KIT FOR CANISTER ANTENNA
CWT-MKS-TOP		TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA
WB3X-MKS-01		UTILITY POLE MOUNTING BRACKET KIT FOR CANISTER ANTENNA
CWT-MKS-BASE-xx		WIDE DIAMETER POLE TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA. AVAILABLE IN BROWN, BLACK AND GREY TO MATCH ANTENNA RADOME AND/OR MOUNTING STRUCTURE.

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## 2C6U6VT360X12Fwxy<sup>s</sup>5

### HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

NUMBER OF BANDS & OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BMWIDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
2C	6U	6V	T	360	X	12	F	wxy	s	5	BK BR
(2x) 696-960	(6x) 1695-2700	(6x) 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 RAL 7035	0°	0°	0°	2C6U6VT360X12F000s5
	0°	2°	0°	2C6U6VT360X12F020s5
	0°	2°	2°	2C6U6VT360X12F022s5
	0°	2°	4°	2C6U6VT360X12F024s5
	0°	2°	6°	2C6U6VT360X12F026s5
	0°	4°	0°	2C6U6VT360X12F040s5
	0°	4°	2°	2C6U6VT360X12F042s5
	0°	4°	4°	2C6U6VT360X12F044s5
	0°	4°	6°	2C6U6VT360X12F046s5
	0°	6°	0°	2C6U6VT360X12F060s5
	0°	6°	2°	2C6U6VT360X12F062s5
	0°	6°	4°	2C6U6VT360X12F064s5
	0°	6°	6°	2C6U6VT360X12F066s5
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	0°	2C6U6VT360X12FAAA <sup>s</sup> 5
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	2C6U6VT360X12FOA2s5
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	0°	2C6U6VT360X12FBBB <sup>s</sup> 5
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	2C6U6VT360X12FOB2s5
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	0°	2C6U6VT360X12FCCC <sup>s</sup> 5
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	2C6U6VT360X12FOC2s5

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## 2C6U6VT360X12Fwxys5

### ORDERING OPTIONS Select from the following ordering options

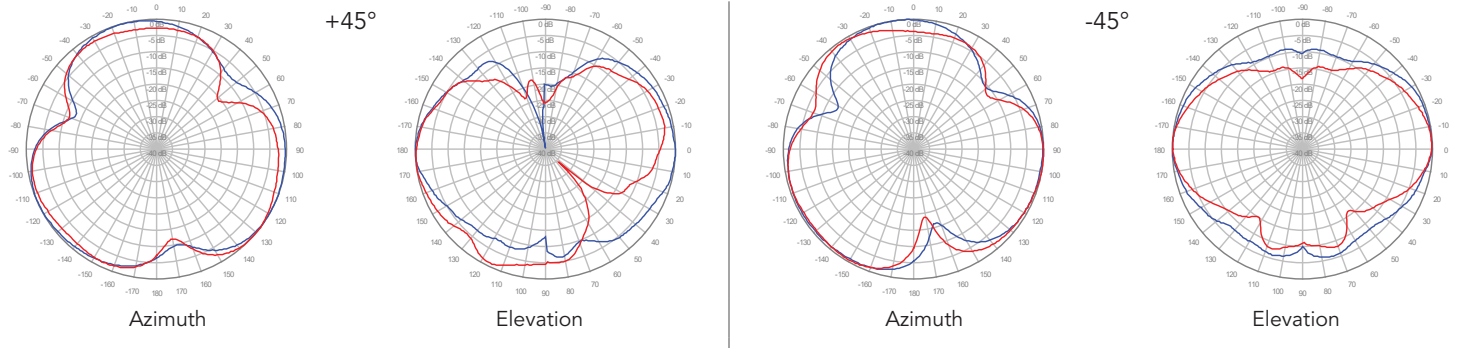
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ANTENNA MODEL
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	
Brown RAL 8022	0°	0°	0°	2C6U6VT360X12F000s5BR
	0°	2°	0°	2C6U6VT360X12F020s5BR
	0°	2°	2°	2C6U6VT360X12F022s5BR
	0°	2°	4°	2C6U6VT360X12F024s5BR
	0°	2°	6°	2C6U6VT360X12F026s5BR
	0°	4°	0°	2C6U6VT360X12F040s5BR
	0°	4°	2°	2C6U6VT360X12F042s5BR
	0°	4°	4°	2C6U6VT360X12F044s5BR
	0°	4°	6°	2C6U6VT360X12F046s5BR
	0°	6°	0°	2C6U6VT360X12F060s5BR
	0°	6°	2°	2C6U6VT360X12F062s5BR
	0°	6°	4°	2C6U6VT360X12F064s5BR
	0°	6°	6°	2C6U6VT360X12F066s5BR
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	0°	2C6U6VT360X12FAAA s5BR
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	2C6U6VT360X12FOA2 s5BR
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	0°	2C6U6VT360X12FBBB s5BR
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	2C6U6VT360X12FOB2 s5BR
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	0°	2C6U6VT360X12FCCC s5BR
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	2C6U6VT360X12F0C2 s5BR
Black RAL 9011	0°	0°	0°	2C6U6VT360X12F000s5BK
	0°	2°	0°	2C6U6VT360X12F020s5BK
	0°	2°	2°	2C6U6VT360X12F022s5BK
	0°	2°	4°	2C6U6VT360X12F024s5BK
	0°	2°	6°	2C6U6VT360X12F026s5BK
	0°	4°	0°	2C6U6VT360X12F040s5BK
	0°	4°	2°	2C6U6VT360X12F042s5BK
	0°	4°	4°	2C6U6VT360X12F044s5BK
	0°	4°	6°	2C6U6VT360X12F046s5BK
	0°	6°	0°	2C6U6VT360X12F060s5BK
	0°	6°	2°	2C6U6VT360X12F062s5BK
	0°	6°	4°	2C6U6VT360X12F064s5BK
	0°	6°	6°	2C6U6VT360X12F066s5BK
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	0°	2C6U6VT360X12FAAA s5BK
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	2C6U6VT360X12FOA2 s5BK
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	0°	2C6U6VT360X12FBBB s5BK
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	2C6U6VT360X12FOB2 s5BK
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	0°	2C6U6VT360X12FCCC s5BK
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	2C6U6VT360X12F0C2 s5BK

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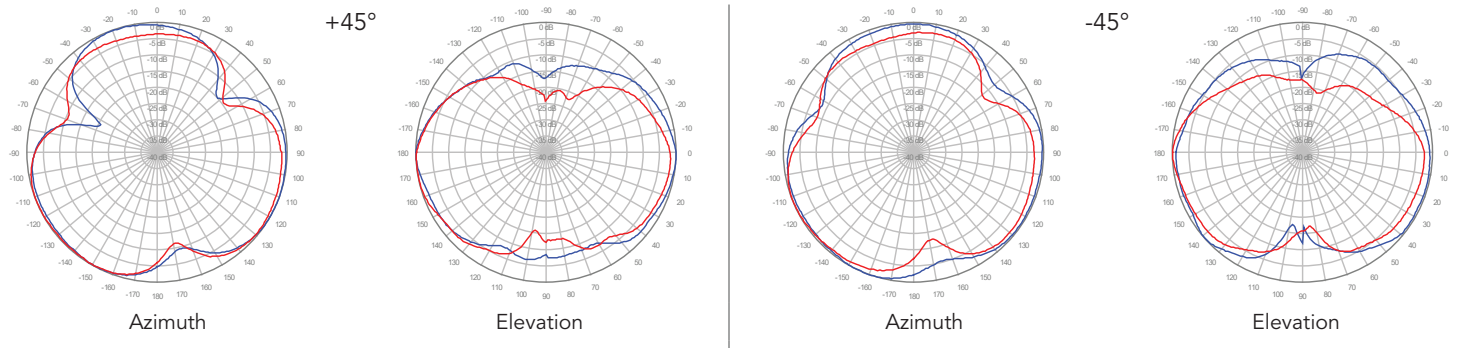
2C6U6VT360X12Fwxys5

750 MHz ————  
850 MHz ————

■ R1, 0° TILT



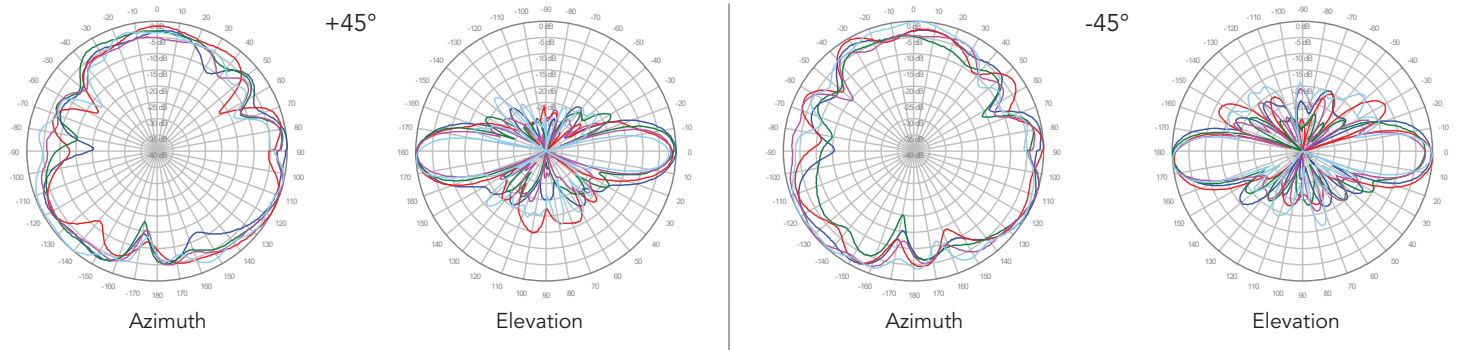
■ R2, 0° TILT



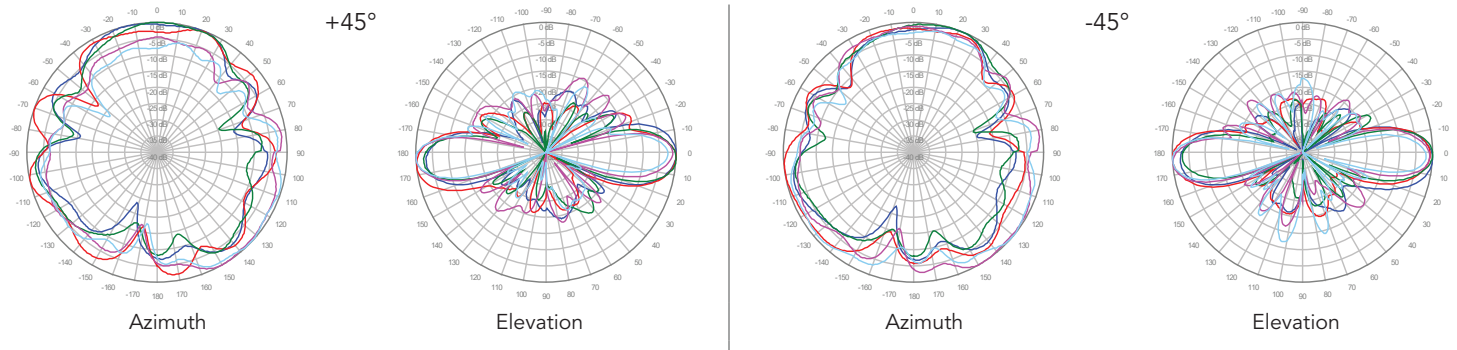
## 2C6U6VT360X12Fwxys5

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

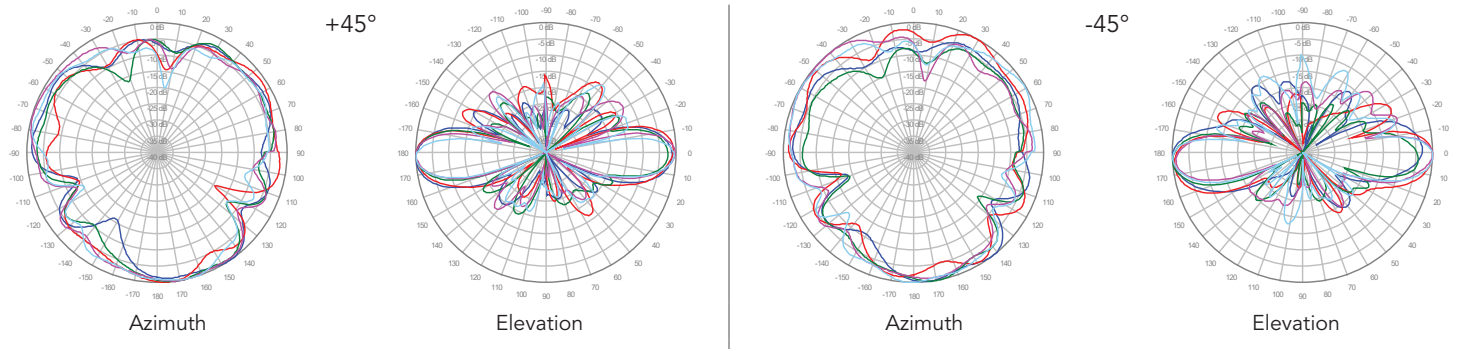
### Y1, 2° TILT



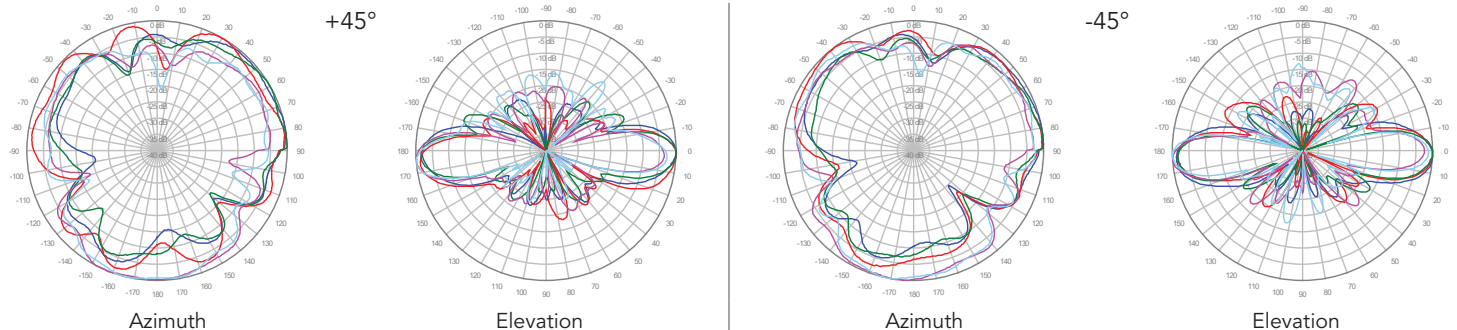
### Y2, 2° TILT



### Y3, 2° TILT



### Y4, 2° TILT

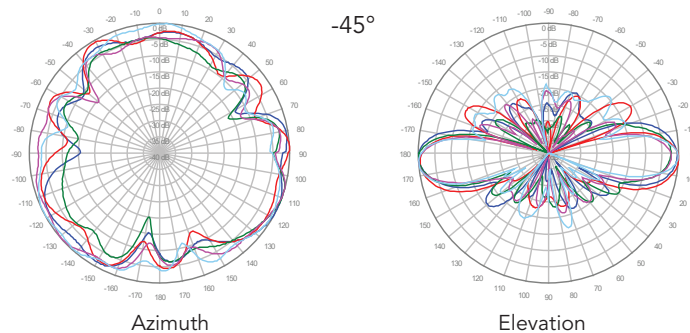
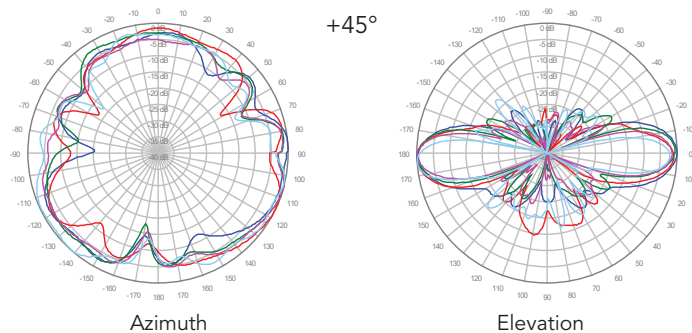


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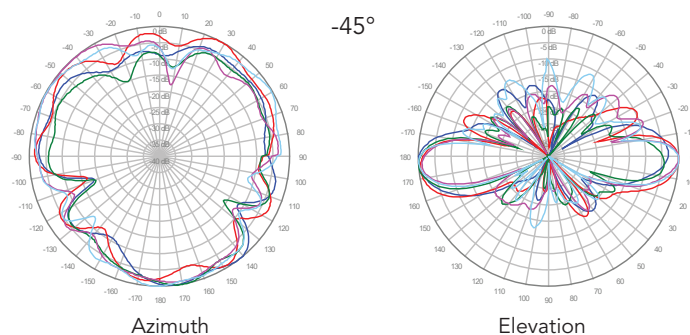
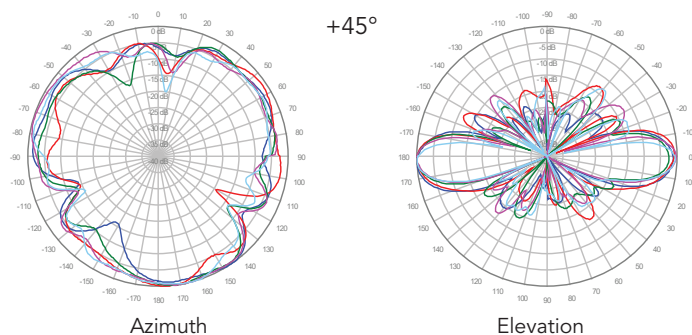
2C6U6VT360X12Fwxys5

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

■ Y5, 2° TILT



■ Y6, 2° TILT

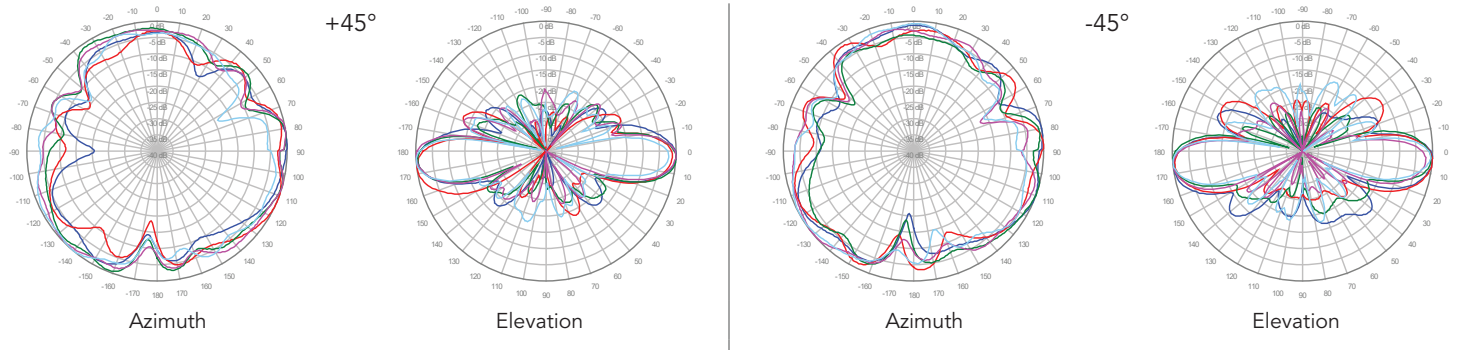




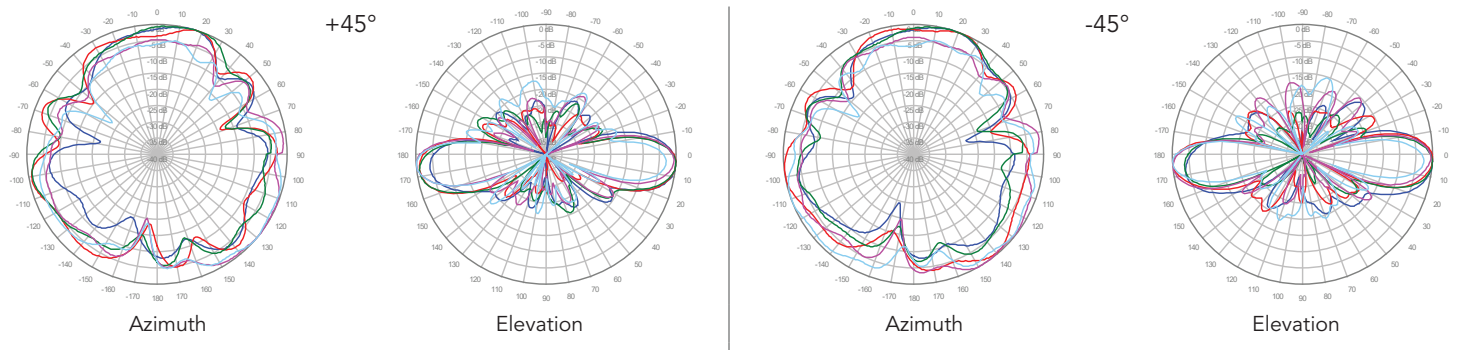
## 2C6U6VT360X12Fwxys5

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

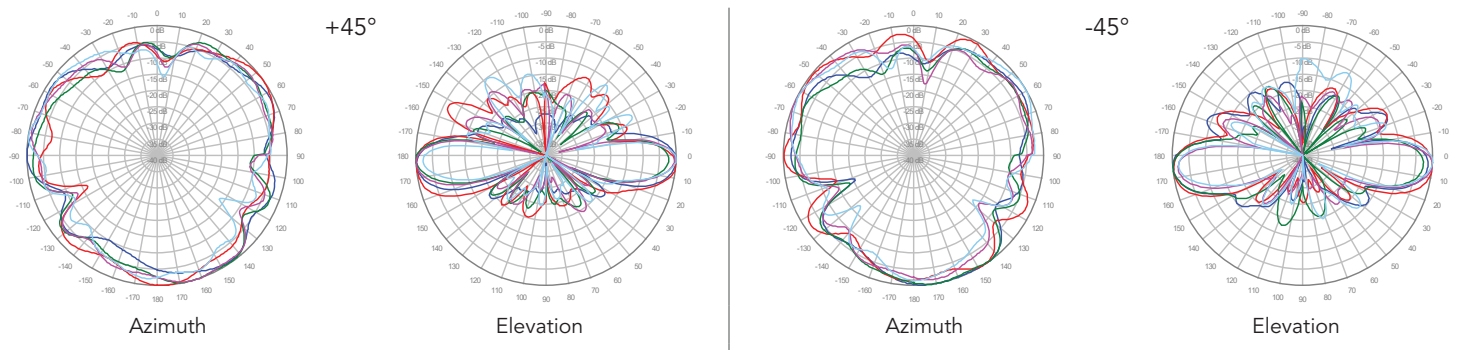
■ Y1, 4° TILT



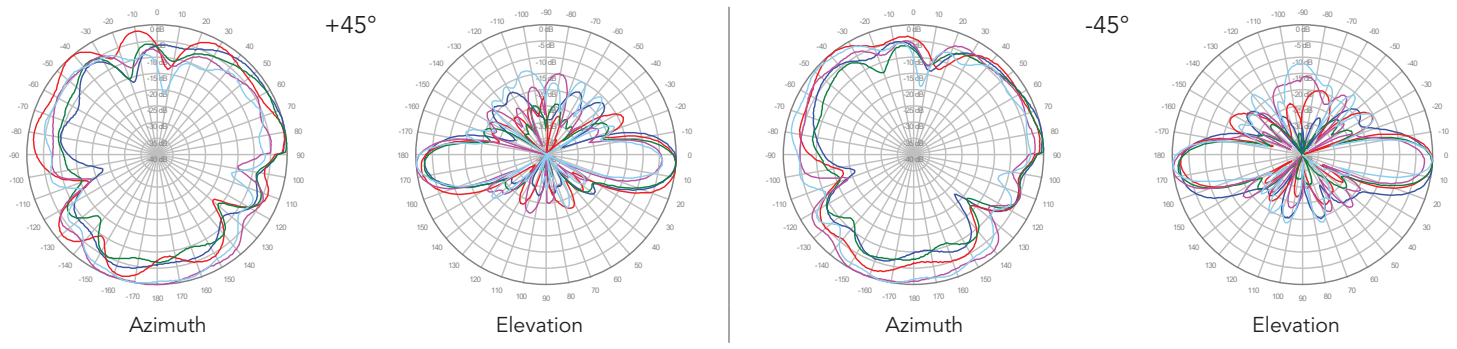
■ Y2, 4° TILT



■ Y3, 4° TILT



■ Y4, 4° TILT



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OMNI

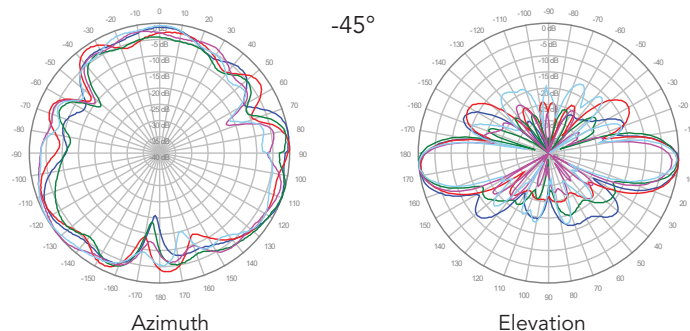
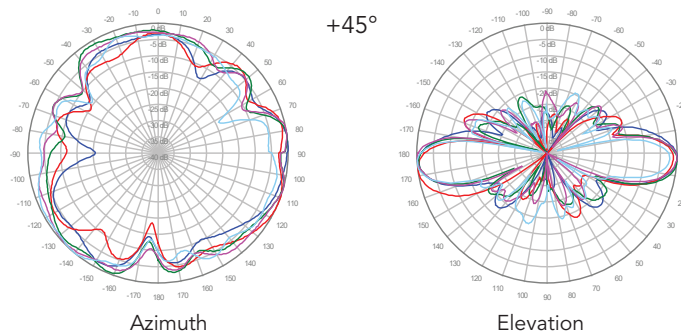
47.6 IN

FIXED TILT

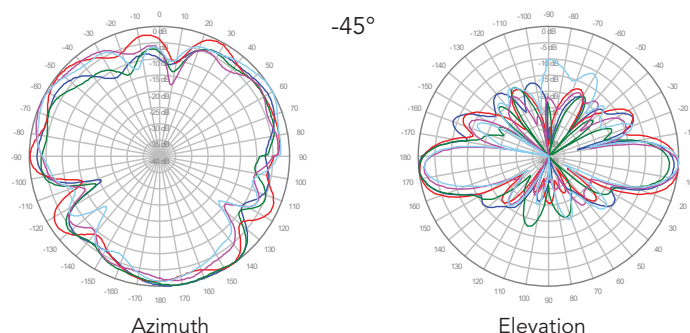
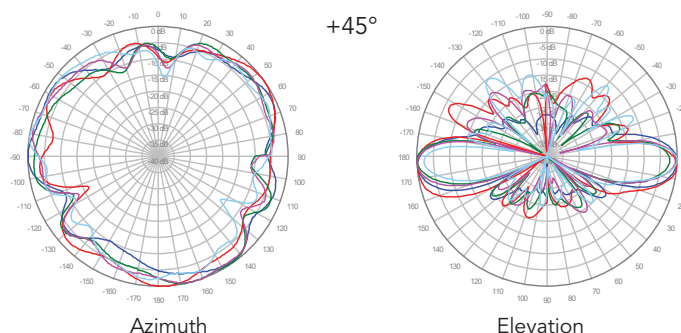
2C6U6VT360X12Fwxys5

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

■ Y5, 4° TILT



■ Y6, 4° TILT

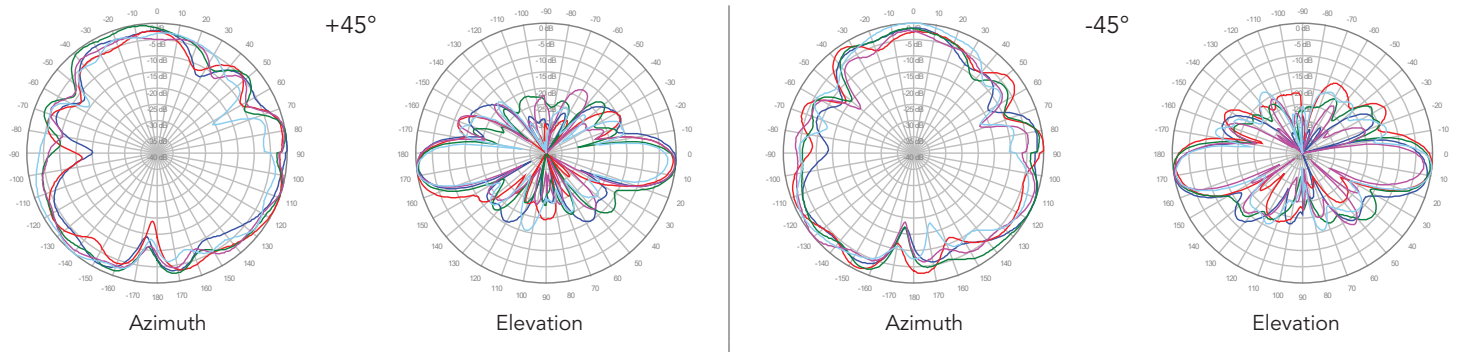




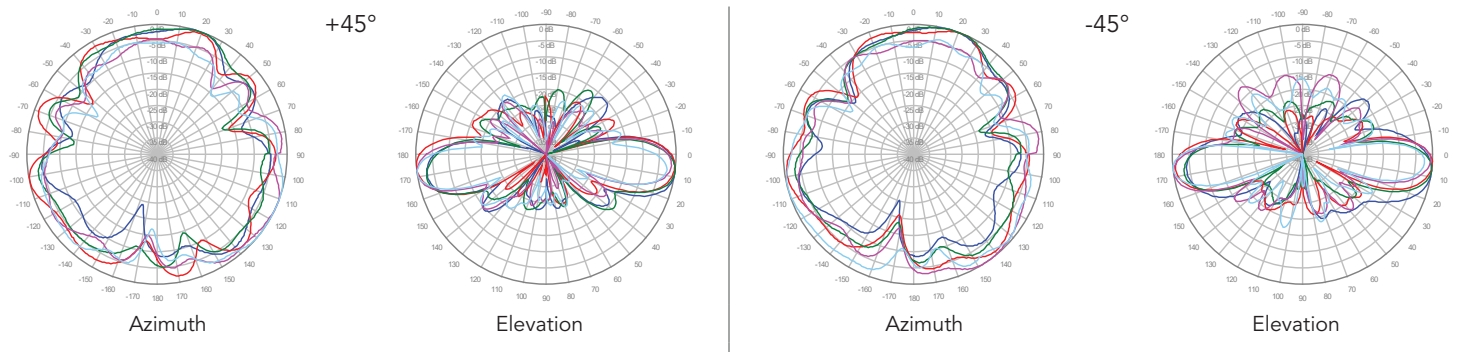
## 2C6U6VT360X12Fwxys5

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

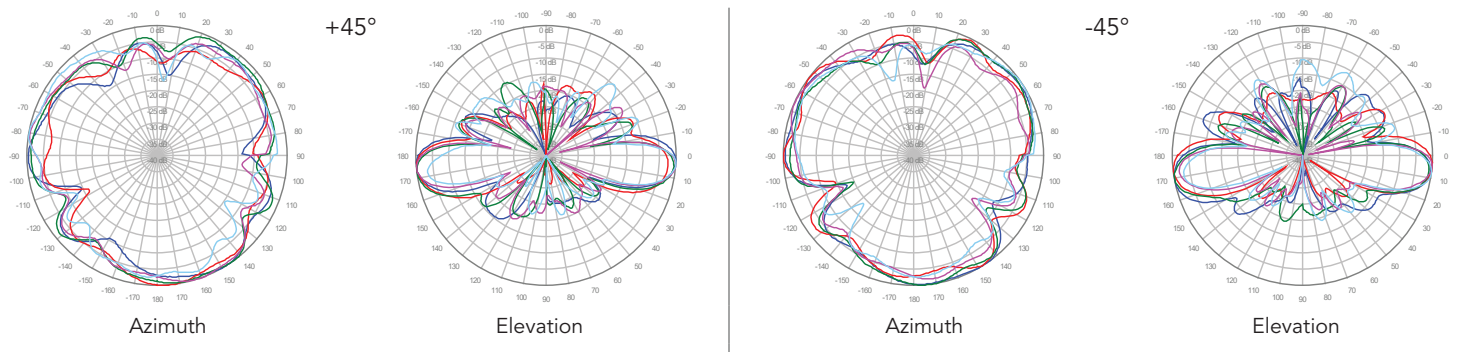
### Y1, 6° TILT



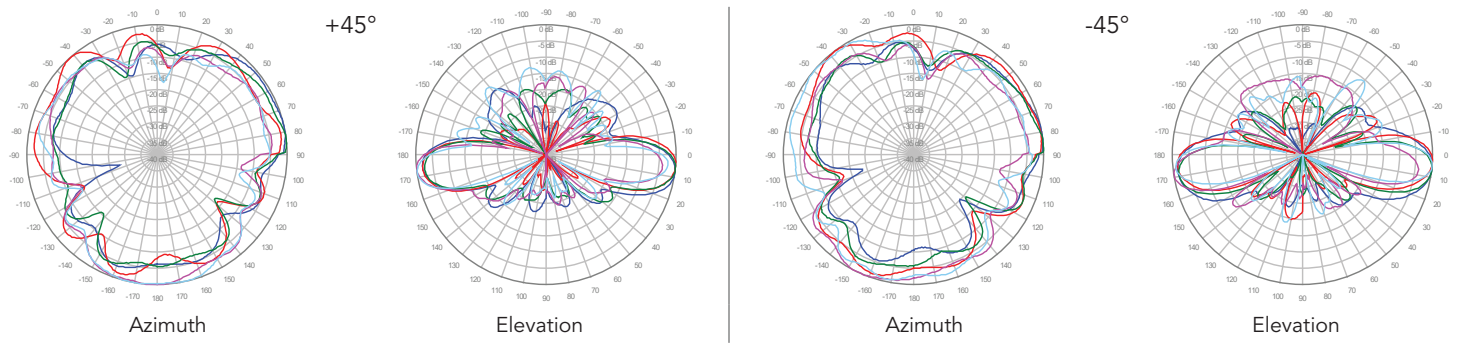
### Y2, 6° TILT



### Y3, 6° TILT



### Y4, 6° TILT

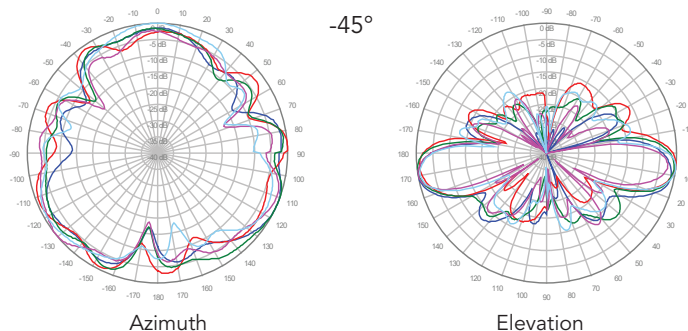
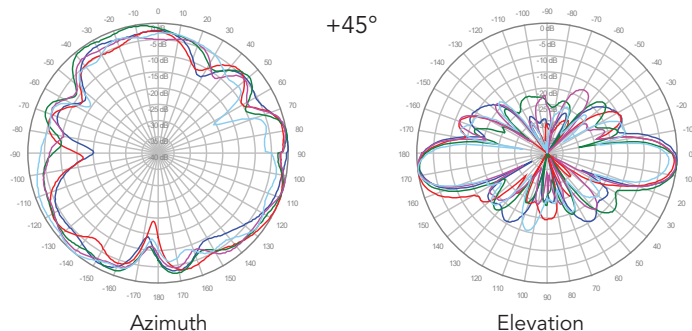


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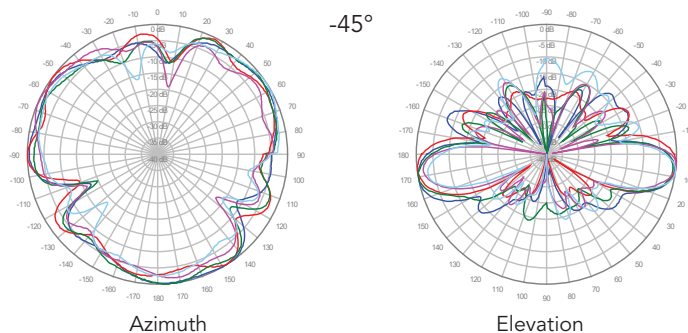
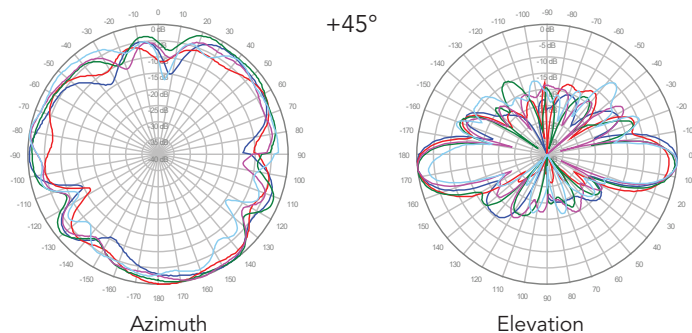
2C6U6VT360X12Fwxys5

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

■ Y5, 6° TILT



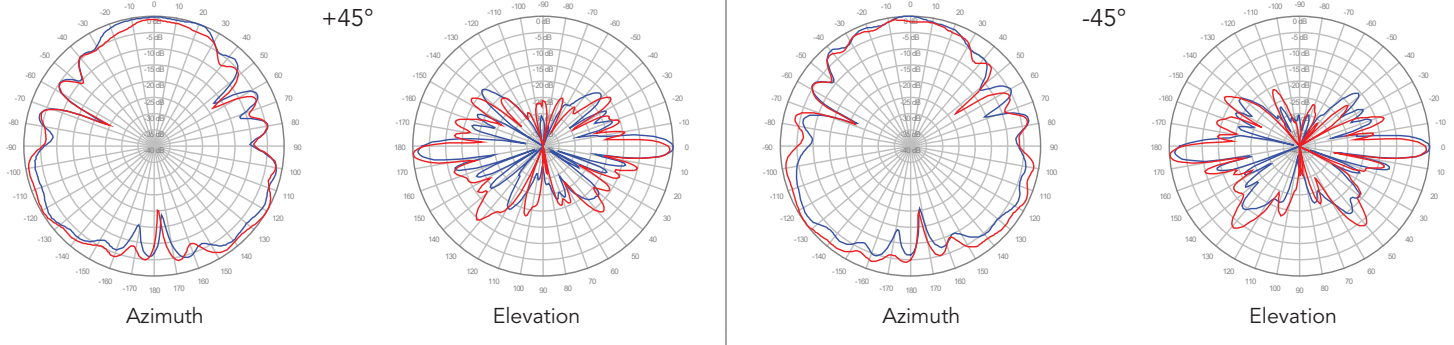
■ Y6, 6° TILT



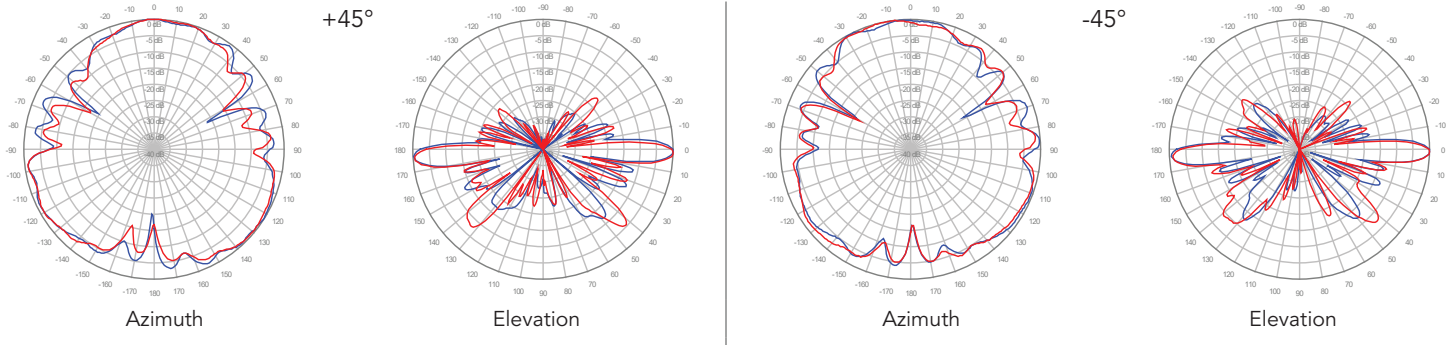
2C6U6VT360X12Fwxys5

3600 MHz ————  
4000 MHz ————

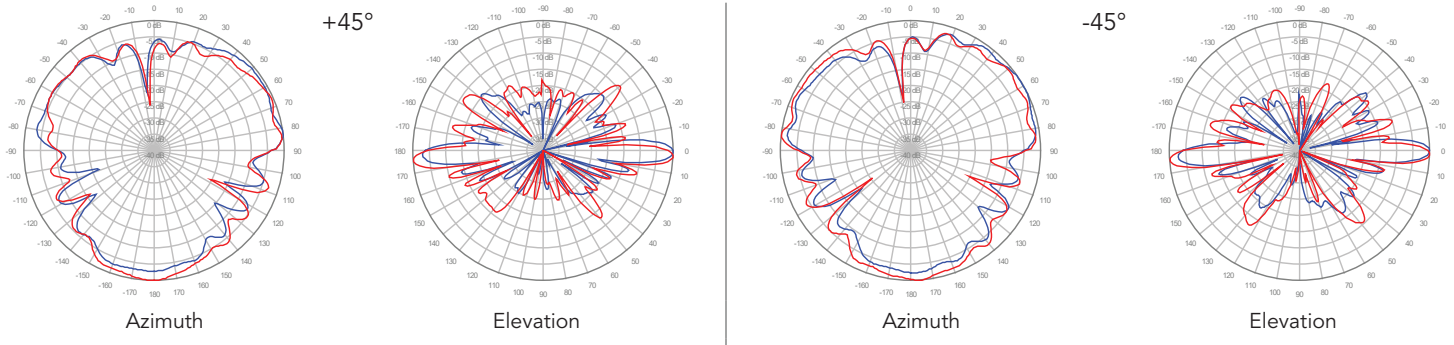
■ P1, 2° TILT



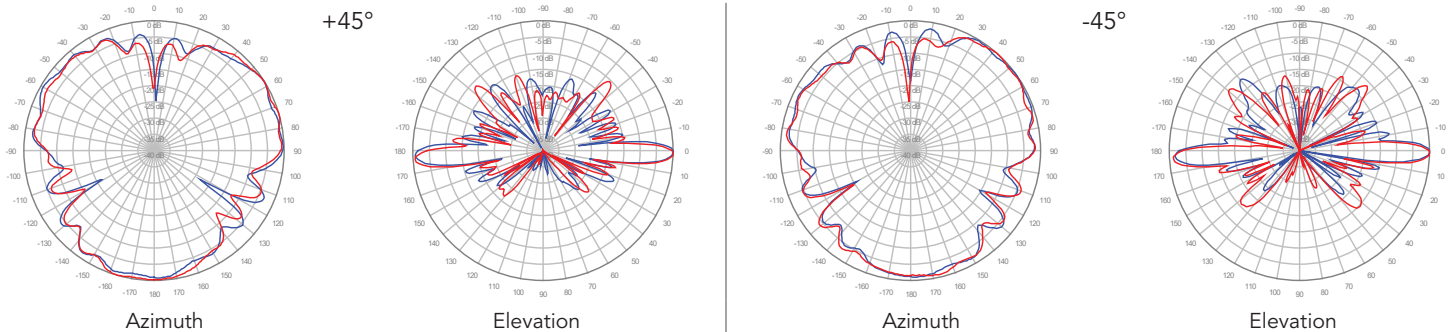
■ P2, 2° TILT



■ P3, 2° TILT



■ P4, 2° TILT



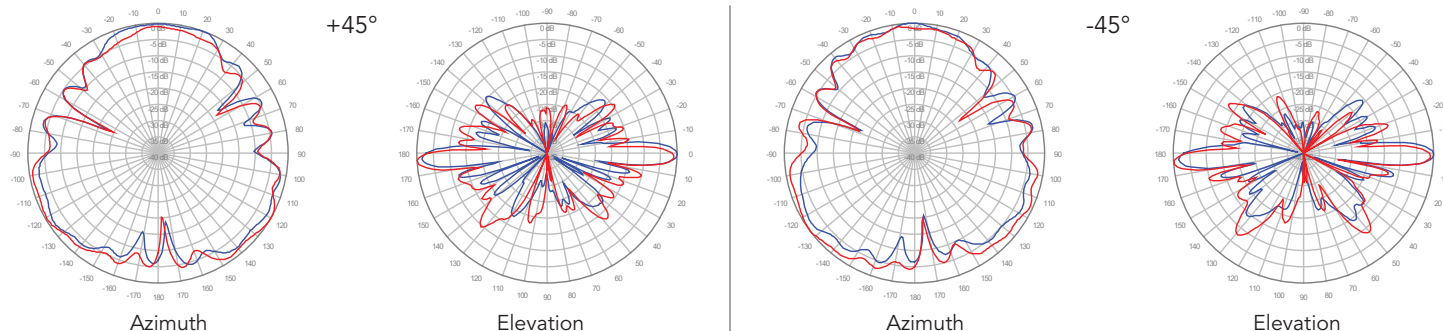
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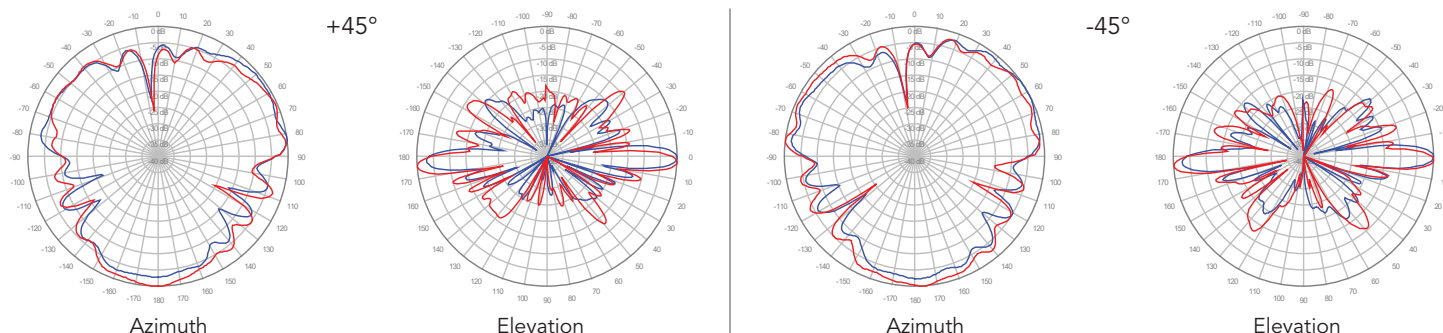
2C6U6VT360X12Fwxys5

3600 MHz ————  
4000 MHz ————

**P5, 2° TILT**



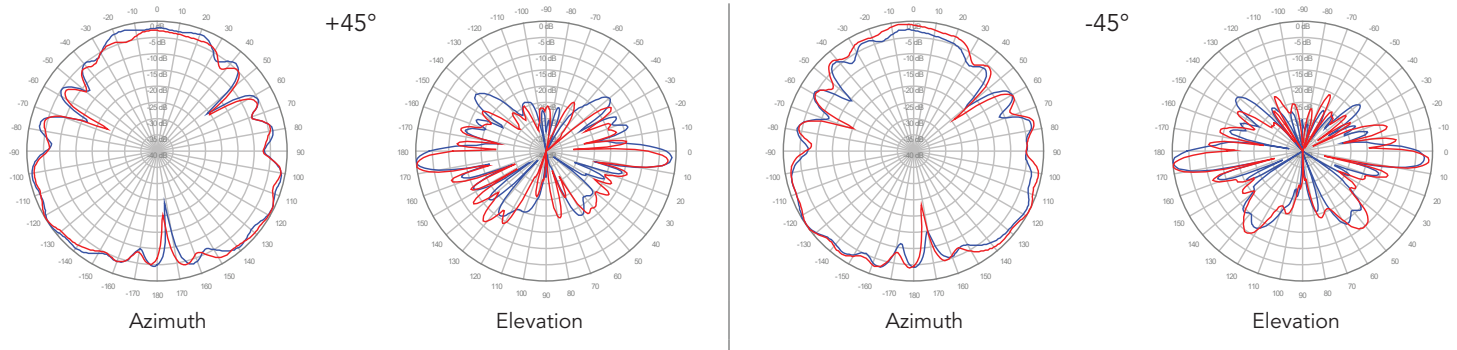
**P6, 2° TILT**



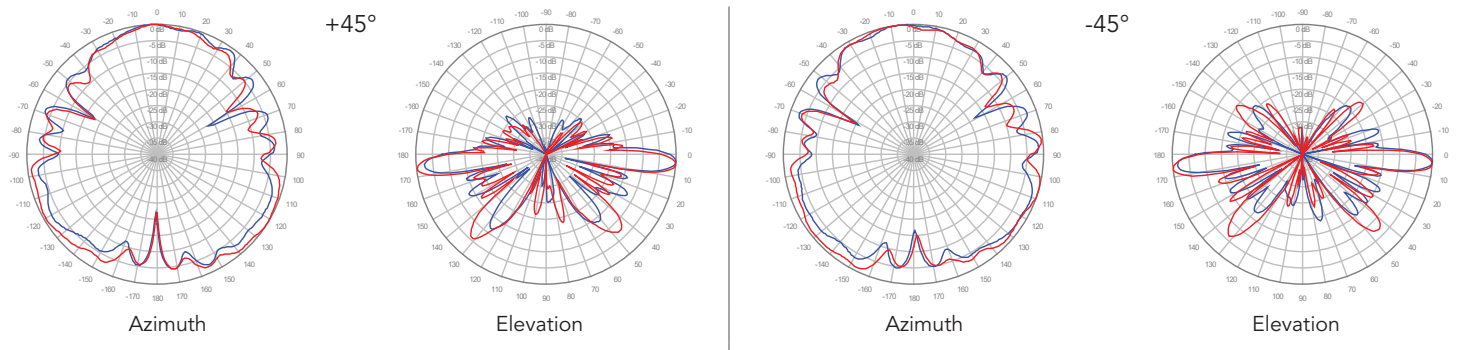
2C6U6VT360X12Fwxys5

3600 MHz ————  
4000 MHz ————

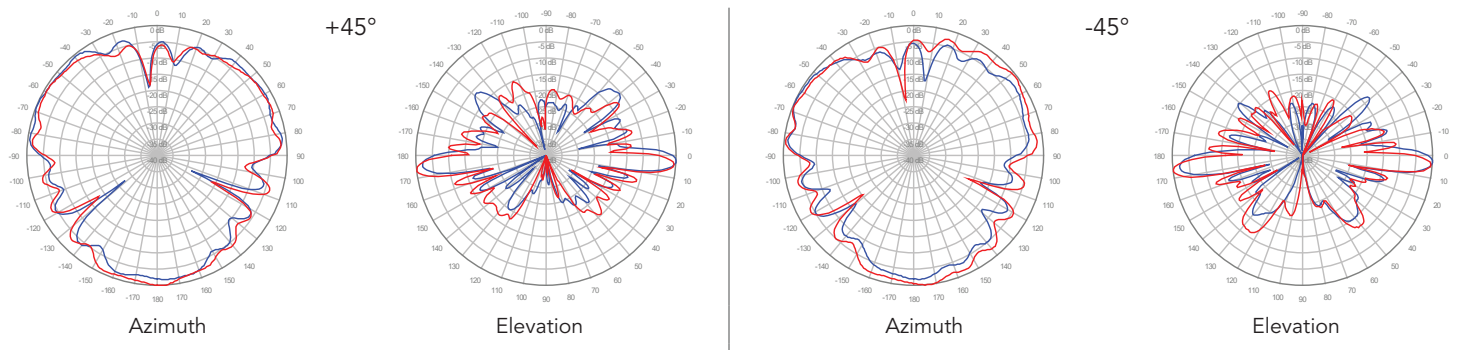
**P1, 4° TILT**



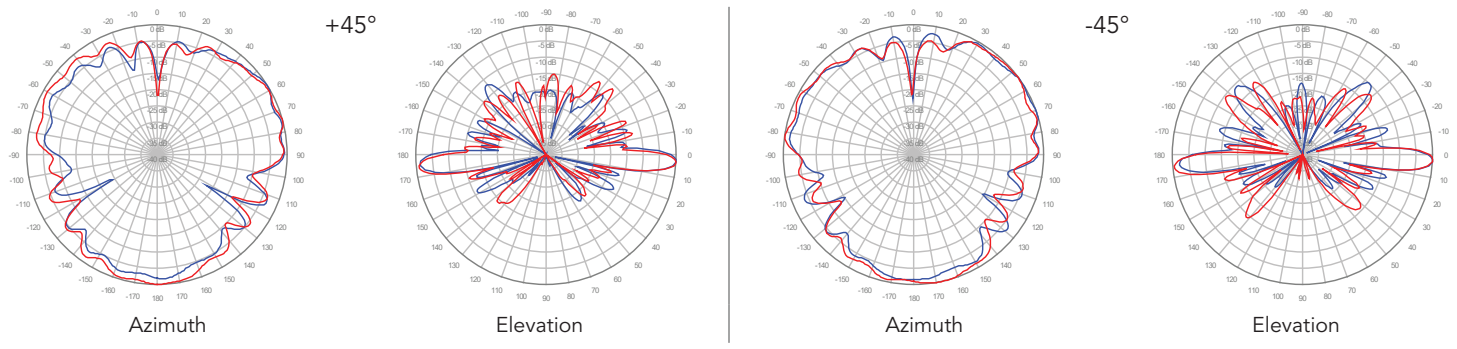
**P2, 4° TILT**



**P3, 4° TILT**



**P4, 4° TILT**

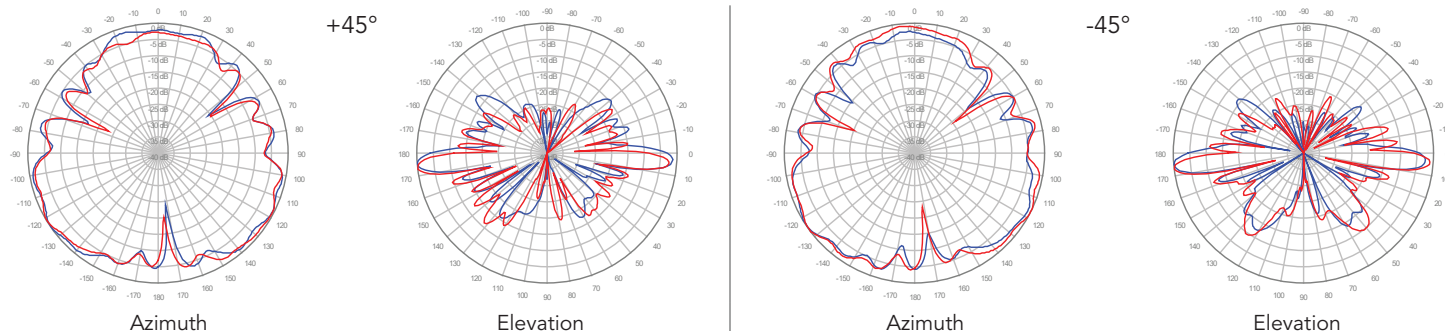


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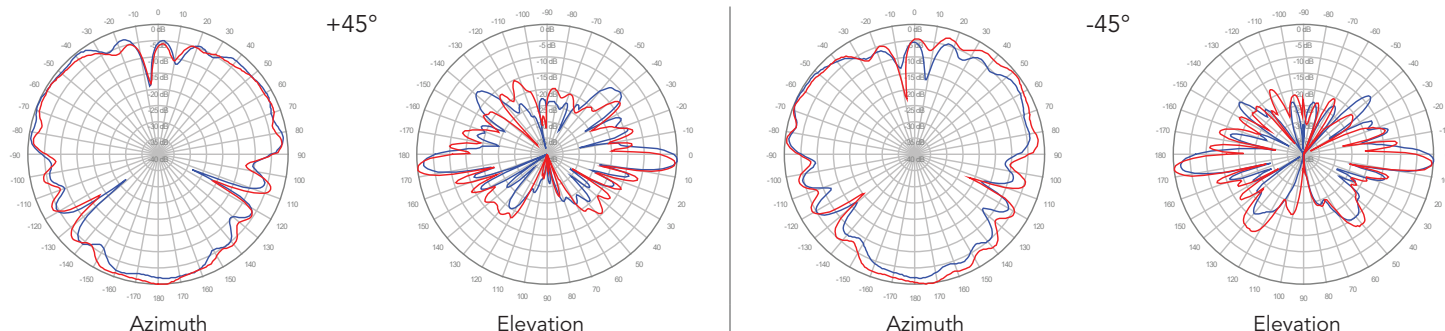
2C6U6VT360X12Fwxys5

3600 MHz ————  
4000 MHz ————

**P5, 4° TILT**



**P6, 4° TILT**

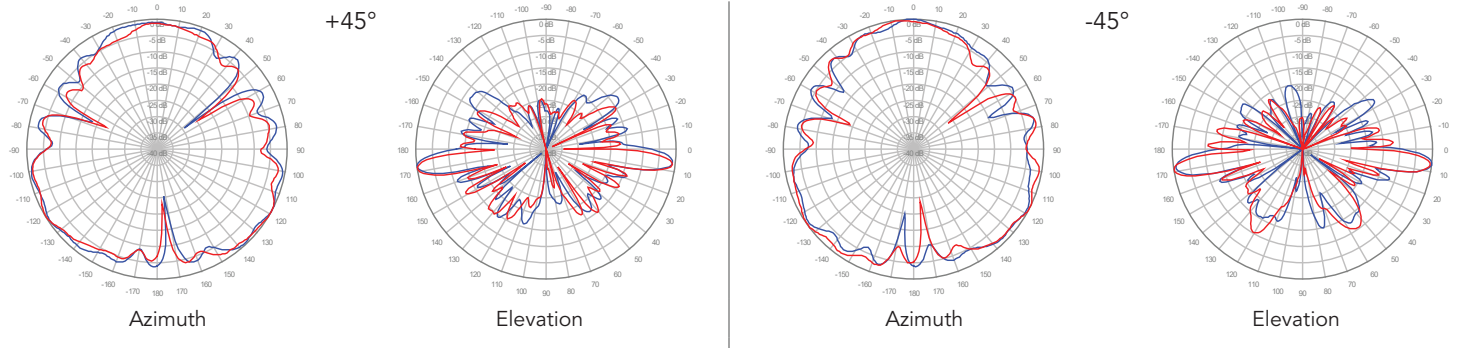




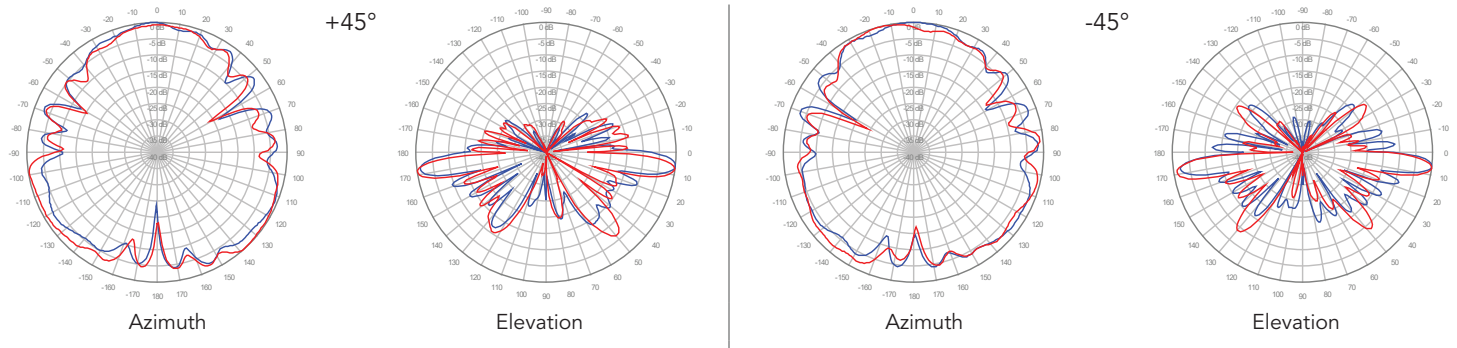
2C6U6VT360X12Fwxys5

3600 MHz ————  
4000 MHz ————

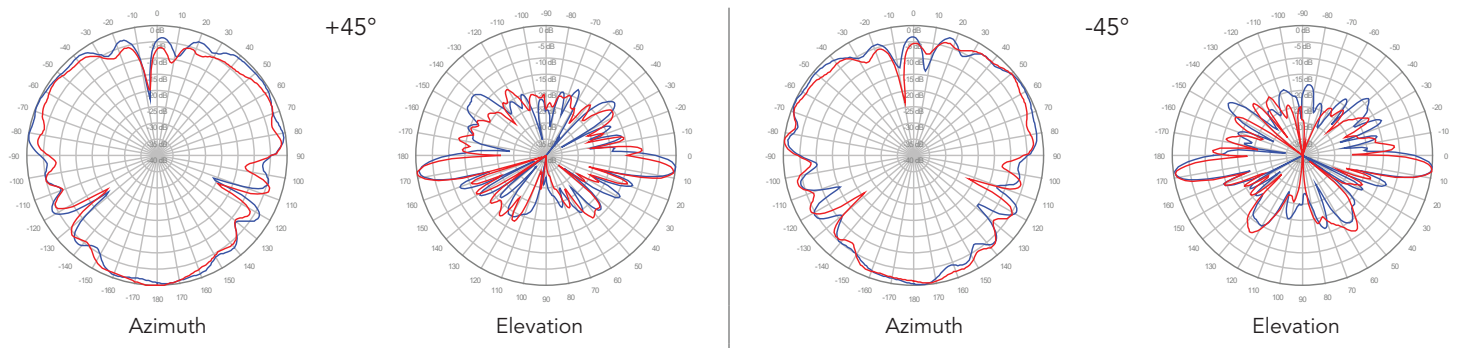
**P1, 6° TILT**



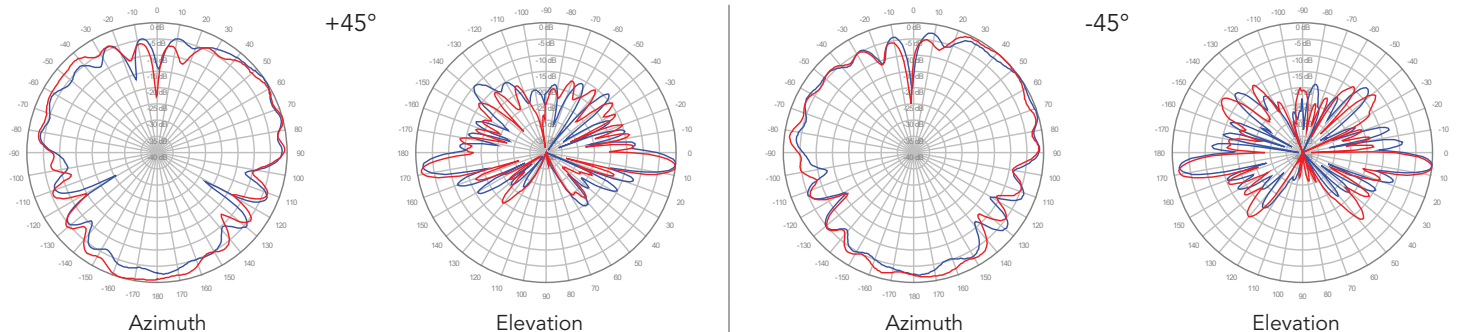
**P2, 6° TILT**



**P3, 6° TILT**



**P4, 6° TILT**

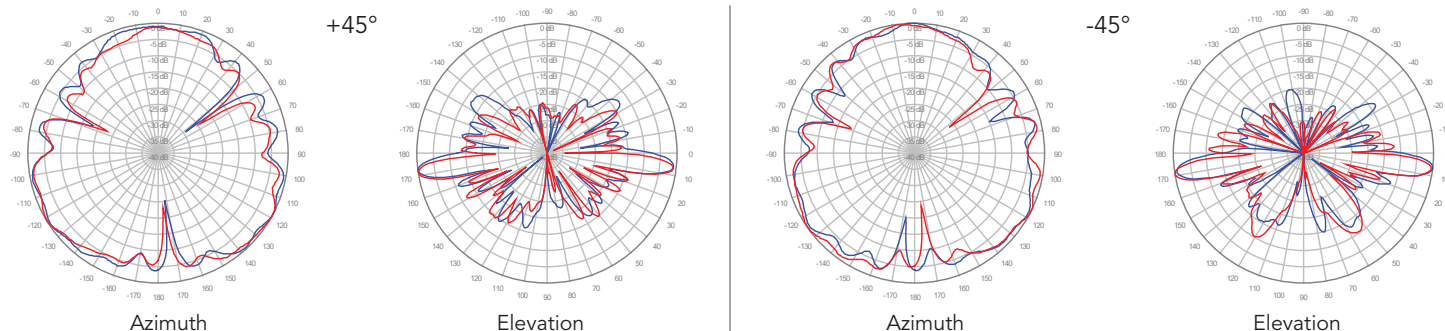


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2C6U6VT360X12Fwxys5

3600 MHz ————  
4000 MHz ————

**P5, 6° TILT**



**P6, 6° TILT**

