

## 2C4U6VT360X06Fwxys5



### Features

- Pseudo omni configuration with 24 connectors
- Ideal for multi-carrier or MIMO deployments
- Broadband networks 696-960, 1695-2700 and 3300-4200 MHz
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR
- Can be ordered with an integrated GPS unit
- Available for order with a grey, brown or black radome

PRODUCT OVERVIEW	Frequency Range (MHz)	(2x) 696-960	(4x) 1695-2700	(6x) 3300-4200	GPS BAND <i>Optional</i> 1575.42 MHz ± 10 MHz
	Array	■ R1 ■ R2	■ Y1 ■ Y2 ■ Y3 ■ Y4	■ P1 ■ P2 ■ P3 ■ P4 ■ P5 ■ P6	---
	Connector	4 PORTS	8 PORTS	12 PORTS	1 PORT
	Polarization	XPOL	XPOL	XPOL	RIGHT HAND CIRCULAR
	Azimuth Beamwidth (avg)	360°	360°	360°	---
	Electrical Downtilt	0°	2°, 4°, 6°	2°, 4°, 6°	---
	Configuration	OMNI CONFIGURATION			---
	Maximum Continuous Power Per Port @ 50° C (122° F)	500 W	300 W	100 W	---
	Maximum Total Continuous Power at 50° C (122° F)	5600 W			---
	Connector Type	(24x) 4.3-10 FEMALE			(1x) N-TYPE FEMALE
Dimensions	608 x Ø371 mm (24.0 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	dB <sub>i</sub>	4.2 ± 1.0	4.4 ± 1.0
	MAX	dB <sub>i</sub>	5.2	5.4
Azimuth Beamwidth (3 dB)		degrees	360°	
Elevation Beamwidth (3 dB)		degrees	55.1° ± 12.0°	59.6° ± 8.8°
Electrical Downtilt		degrees	(w) 0°	
Impedance		Ohms	50Ω	
VSWR		---	≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers		dB <sub>c</sub>	< -153	
Upper Sidelobe Suppression		dB	N/A	
Isolation	Intraband	dB	> 25	
	Interband	dB	> 28	

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OMNI
24.0 IN
FIXED TILT

## 2C4U6VT360X06Fwxys5

### ELECTRICAL SPECIFICATIONS

■ Y1 ■ Y2 ■ Y3 ■ Y4

Frequency Range		MHz	(4x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(4x) ±45°			
Gain	BASTA	dBi	7.5 ± 1.3	8.0 ± 1.2	7.9 ± 1.3	8.3 ± 1.2
	MAX	dBi	8.8	9.2	9.2	9.5
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	30.5° ± 5.8°	26.3° ± 4.7°	23.9° ± 5.2°	21.2° ± 3.6°
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			

### 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	8.8 ± 1.1	9.1 ± 0.8	10.3 ± 1.5
	MAX	dBi	9.9	9.9	11.8
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	14.9° ± 2.8°	14.4° ± 3.9°	13.5° ± 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		

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### INTEGRATED GPS UNIT OPTIONAL

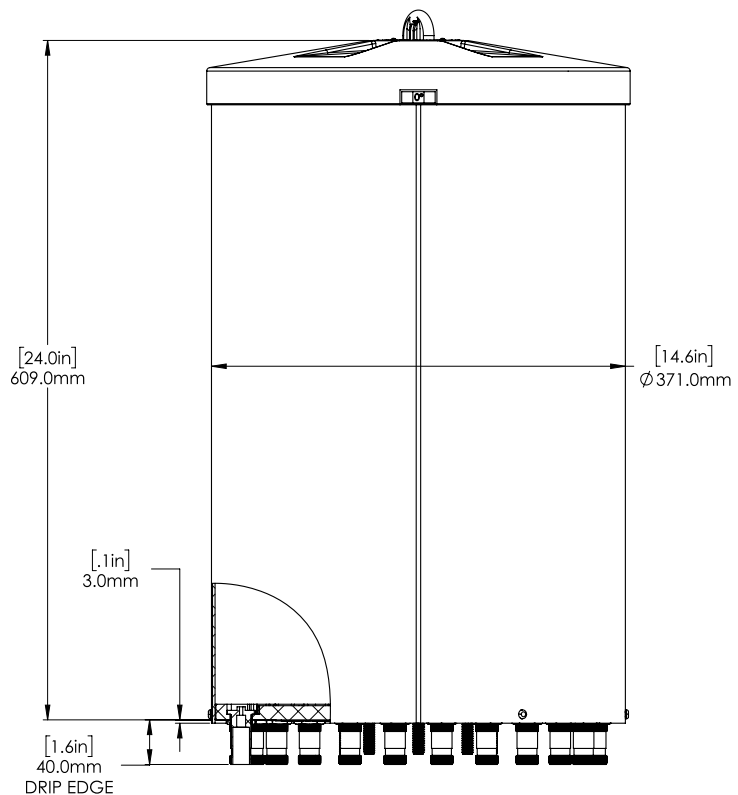
Frequency Range	1575.42 MHz ± 10 MHz
Polarization	Right Hand Circular
Nominal Gain	3 dBic at 90°; -2 dBic at 20°
Current Draw	22 mA @ 5V
Out-of-Band Rejection	> 55 dB at 1559 MHz; > 60 dB at 1625 MHz
Amplifier Gain	28 dB ± 3 dB
Nominal Impedance	50 ohm
Noise Figure	3.9 dB
DC Voltage	2.7-5.5 VDC
VSWR	< 2.0:1
Connector	N-Type Female

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## 2C4U6VT360X06Fwxys5

### MECHANICAL SPECIFICATIONS

<b>Antenna</b>	Height	mm (in)	608 (24.0)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	13 (29.0)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	191 (43)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m <sup>2</sup> (ft <sup>2</sup> )	0.22 (2.4)
Volume		m <sup>3</sup> (ft <sup>3</sup> )	0.07 (2.3)
Connector	Type	---	(24x) 4.3-10 Female; (1x) N-Type Female with optional GPS Unit
	Position	---	Bottom
Radome Color		---	Grey (Pantone 420 C), Brown (Pantone 476 C), Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground



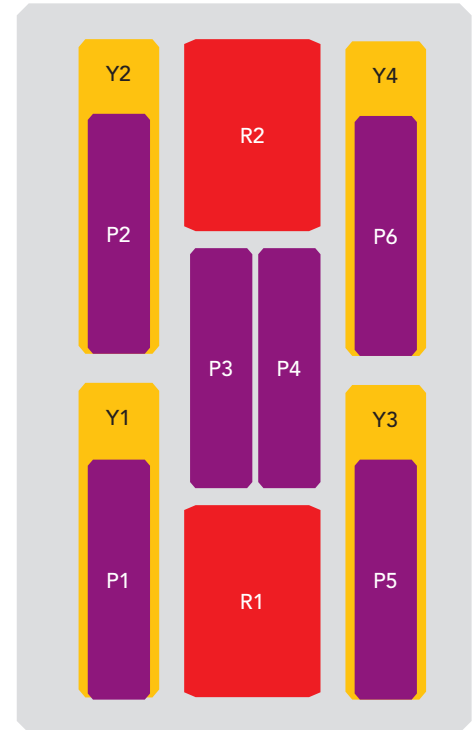
FRONT VIEW  
**NOTE: SEAM OF RADOME IS ORIENTED TO 0 Deg**

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### ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	<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
3300-4200 MHz	<span style="color: purple;">■</span> P1	13-14	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P2	15-16	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P3	17-18	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P4	19-20	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P5	21-22	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P6	23-24	(2x) 4.3-10 Female
Optional GPS BAND 1575.42 MHz ± 10 MHz	---	---	(1x) N-Type Female



The illustration is not shown to scale.

# 2C4U6VT360X06Fwxys5

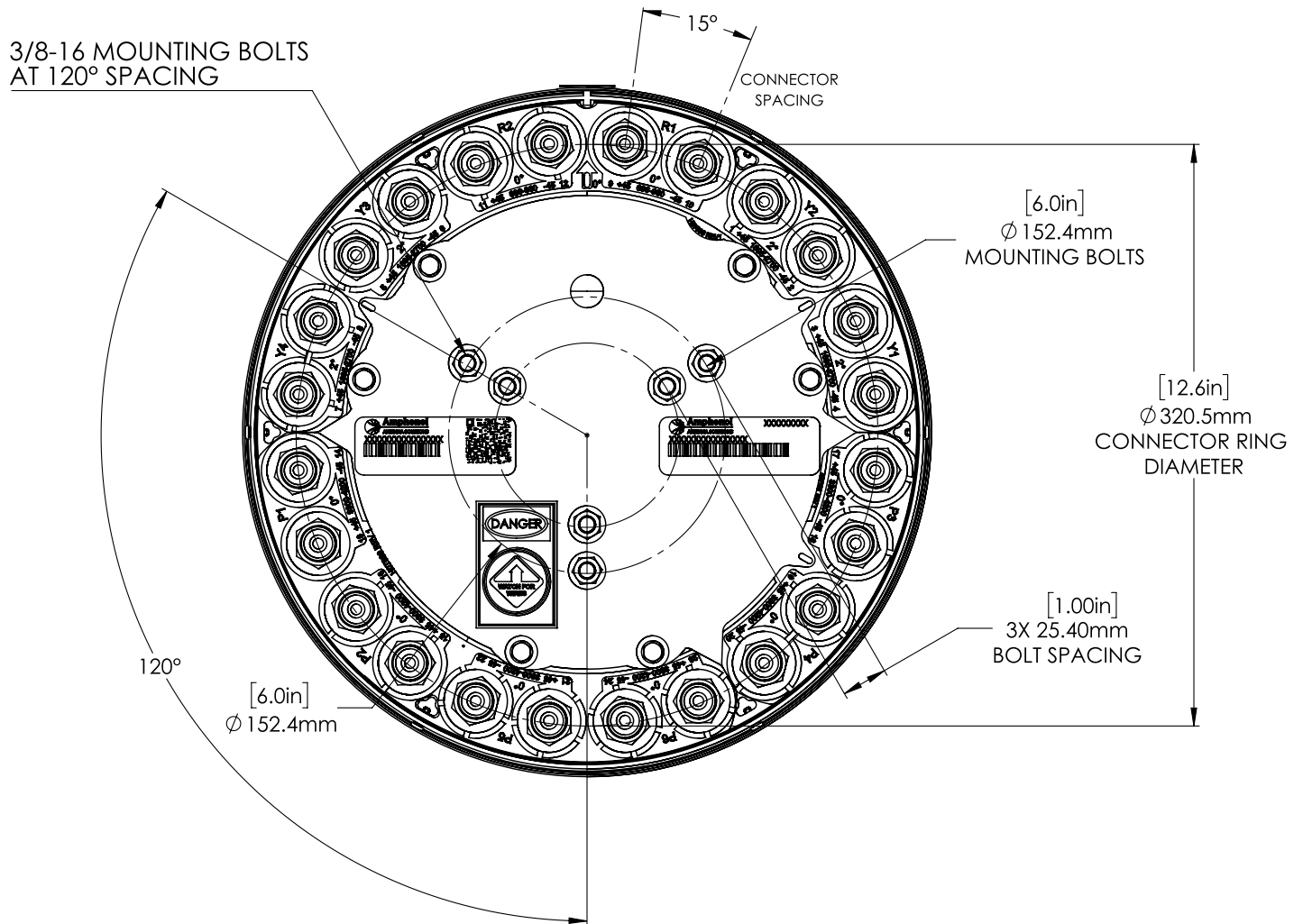
## BOTTOM VIEW - LABELING



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## BOTTOM VIEW - CONNECTOR DIAGRAM



**INSTALLATION** Please read all installation notes before installing this product.



Always attach the antenna using all mounting points.

Do not install the antenna with the connectors facing upwards.

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## 2C4U6VT360X06Fwxys5

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

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## 2C4U6VT360X06Fwxy<sup>s</sup>5

### 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	RADOME COLOR OPTIONS	GPS
2C	4U	6V	T	360	X	06	F	wxy	s	5	BK BR	-GPS
(2x) 696- 960	(4x) 1695- 2700	(2x) 3300- 4200	Tri-Sector	360°	XPOL	0.6 meters	Fixed Tilt	These letters are placeholders for fixed tilt options.  Refer to Electrical Specifications for available tilt options.	4.3-10 Connector	5th generation enhanced mechanical package	BK indicates a Black radome. BR indicates a Brown radome. The default radome color is Grey. No letters are required for a Grey radome.	Indicates an inte- grated GPS unit

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## 2C4U6VT360X06Fwxys5

### ORDERING OPTIONS Select from the following ordering options

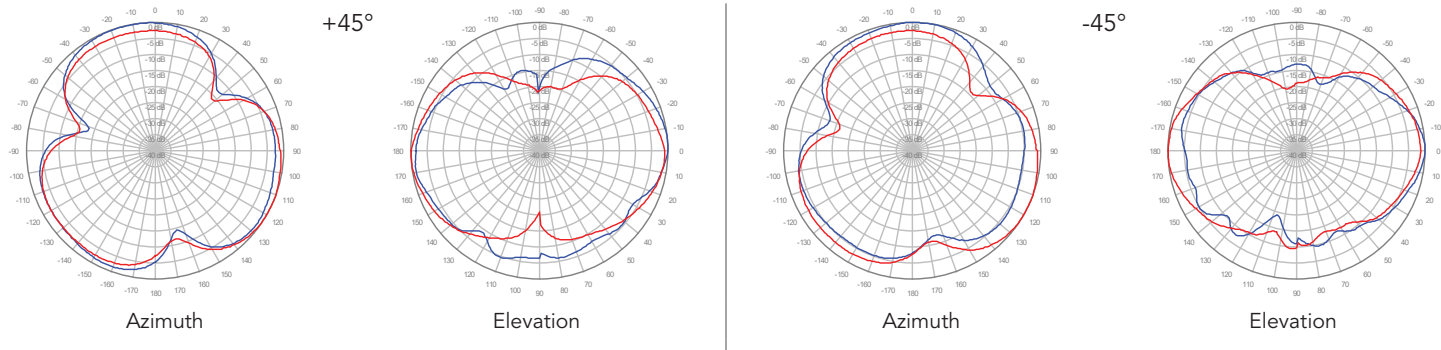
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			SELECT ANTENNA TYPE	
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	WITHOUT GPS UNIT	WITH GPS UNIT
Grey Pantone 420 C	0°	2°	2°	2C4U6VT360X06F022s5	2C4U6VT360X06F022s5-GPS
	0°	2°	4°	2C4U6VT360X06F024s5	2C4U6VT360X06F024s5-GPS
	0°	2°	6°	2C4U6VT360X06F026s5	2C4U6VT360X06F026s5-GPS
	0°	4°	2°	2C4U6VT360X06F042s5	2C4U6VT360X06F042s5-GPS
	0°	4°	4°	2C4U6VT360X06F044s5	2C4U6VT360X06F044s5-GPS
	0°	4°	6°	2C4U6VT360X06F046s5	2C4U6VT360X06F046s5-GPS
	0°	6°	2°	2C4U6VT360X06F062s5	2C4U6VT360X06F062s5-GPS
	0°	6°	4°	2C4U6VT360X06F064s5	2C4U6VT360X06F064s5-GPS
	0°	6°	6°	2C4U6VT360X06F066s5	2C4U6VT360X06F066s5-GPS
Brown Pantone 476 C	0°	2°	2°	2C4U6VT360X06F022s5BR	2C4U6VT360X06F022s5BR-GPS
	0°	2°	4°	2C4U6VT360X06F024s5BR	2C4U6VT360X06F024s5BR-GPS
	0°	2°	6°	2C4U6VT360X06F026s5BR	2C4U6VT360X06F026s5BR-GPS
	0°	4°	2°	2C4U6VT360X06F042s5BR	2C4U6VT360X06F042s5BR-GPS
	0°	4°	4°	2C4U6VT360X06F044s5BR	2C4U6VT360X06F044s5BR-GPS
	0°	4°	6°	2C4U6VT360X06F046s5BR	2C4U6VT360X06F046s5BR-GPS
	0°	6°	2°	2C4U6VT360X06F062s5BR	2C4U6VT360X06F062s5BR-GPS
	0°	6°	4°	2C4U6VT360X06F064s5BR	2C4U6VT360X06F064s5BR-GPS
	0°	6°	6°	2C4U6VT360X06F066s5BR	2C4U6VT360X06F066s5BR-GPS
Black RAL 9011	0°	2°	2°	2C4U6VT360X06F022s5BK	2C4U6VT360X06F022s5BK-GPS
	0°	2°	4°	2C4U6VT360X06F024s5BK	2C4U6VT360X06F024s5BK-GPS
	0°	2°	6°	2C4U6VT360X06F026s5BK	2C4U6VT360X06F026s5BK-GPS
	0°	4°	2°	2C4U6VT360X06F042s5BK	2C4U6VT360X06F042s5BK-GPS
	0°	4°	4°	2C4U6VT360X06F044s5BK	2C4U6VT360X06F044s5BK-GPS
	0°	4°	6°	2C4U6VT360X06F046s5BK	2C4U6VT360X06F046s5BK-GPS
	0°	6°	2°	2C4U6VT360X06F062s5BK	2C4U6VT360X06F062s5BK-GPS
	0°	6°	4°	2C4U6VT360X06F064s5BK	2C4U6VT360X06F064s5BK-GPS
	0°	6°	6°	2C4U6VT360X06F066s5BK	2C4U6VT360X06F066s5BK-GPS

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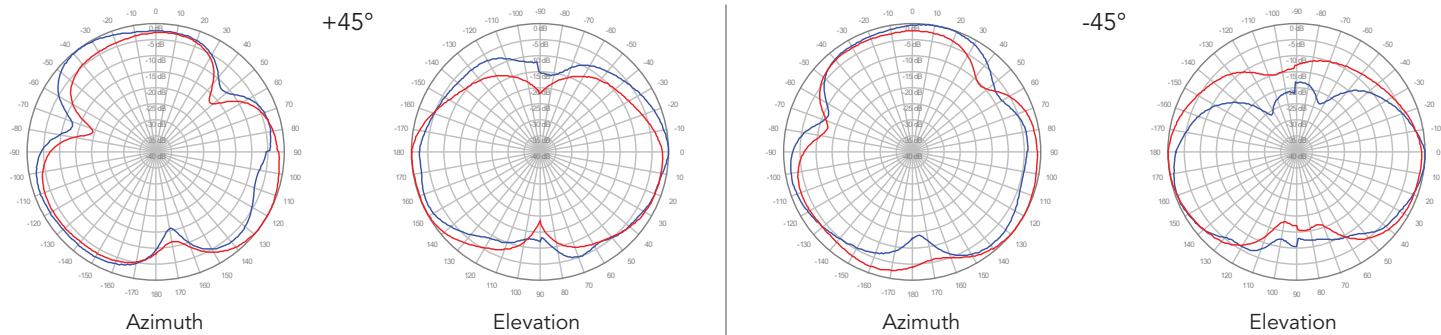
**2C4U6VT360X06Fwxys5**

750 MHz ————  
850 MHz ————

**R1, 0° TILT**



**R2, 0° TILT**



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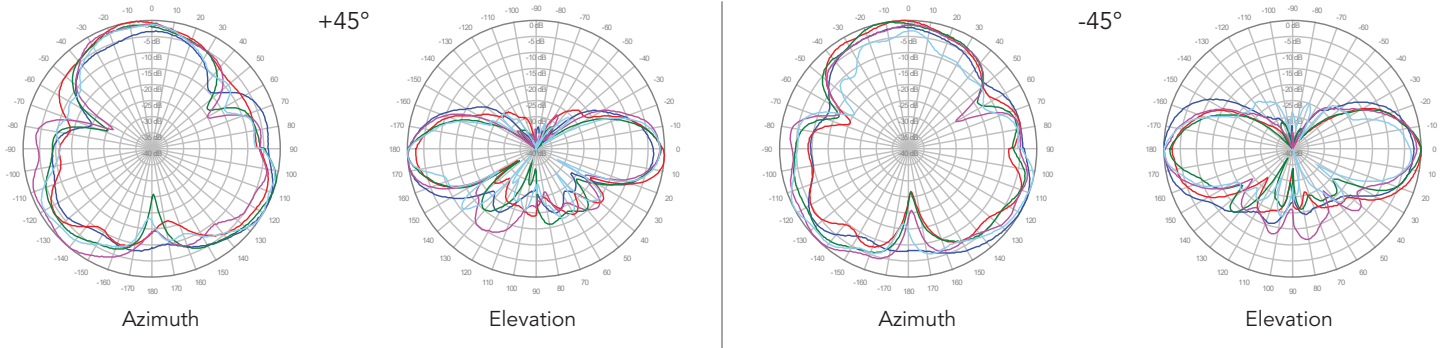
24.0 IN

FIXED TILT

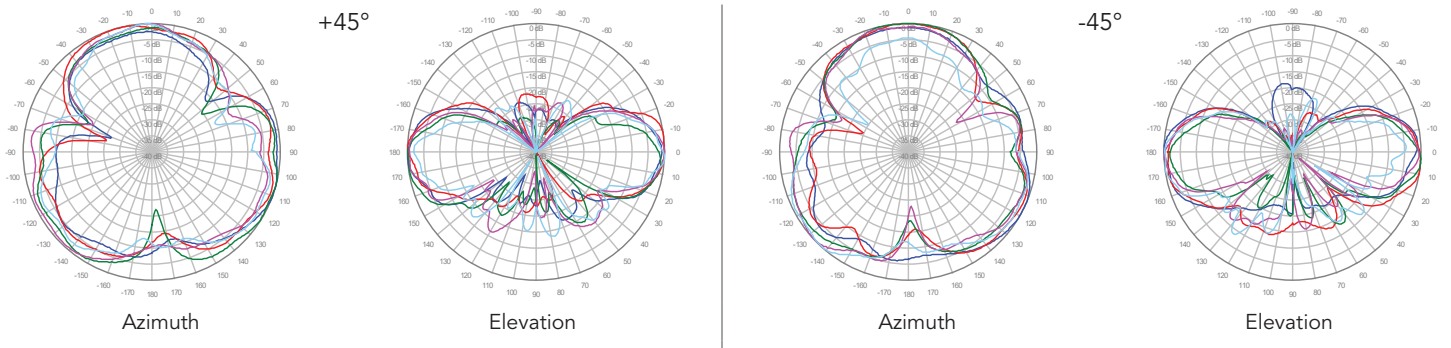
**2C4U6VT360X06Fwxys5**

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

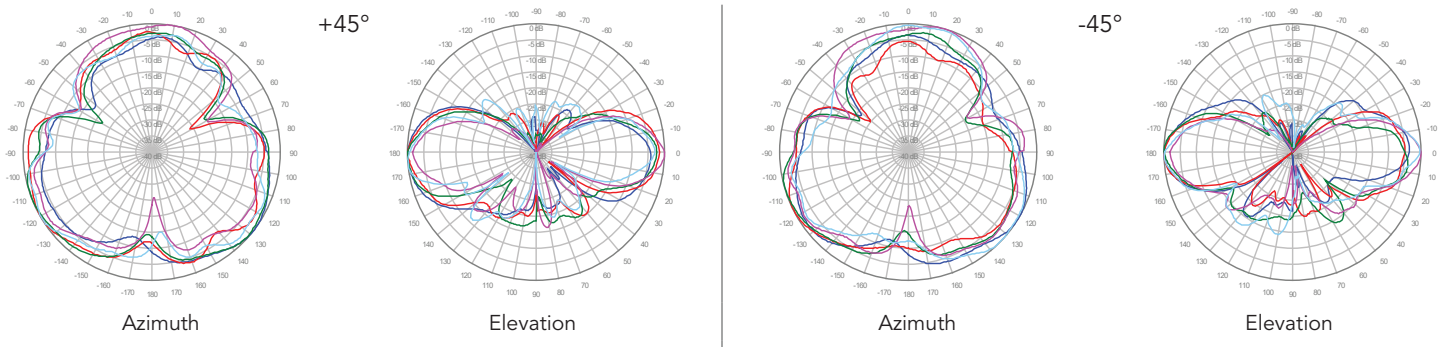
**Y1, 2° TILT**



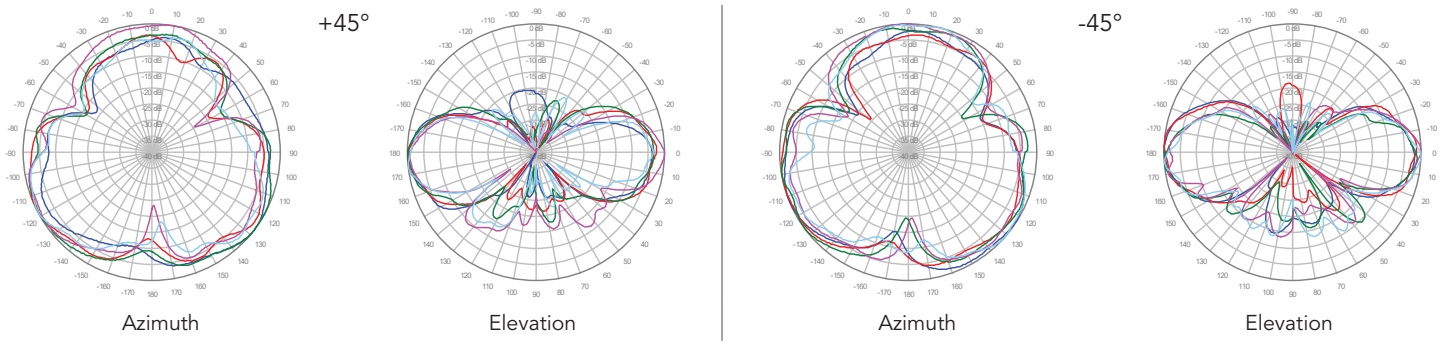
**Y2, 2° TILT**



**Y3, 2° TILT**



**Y4, 2° TILT**



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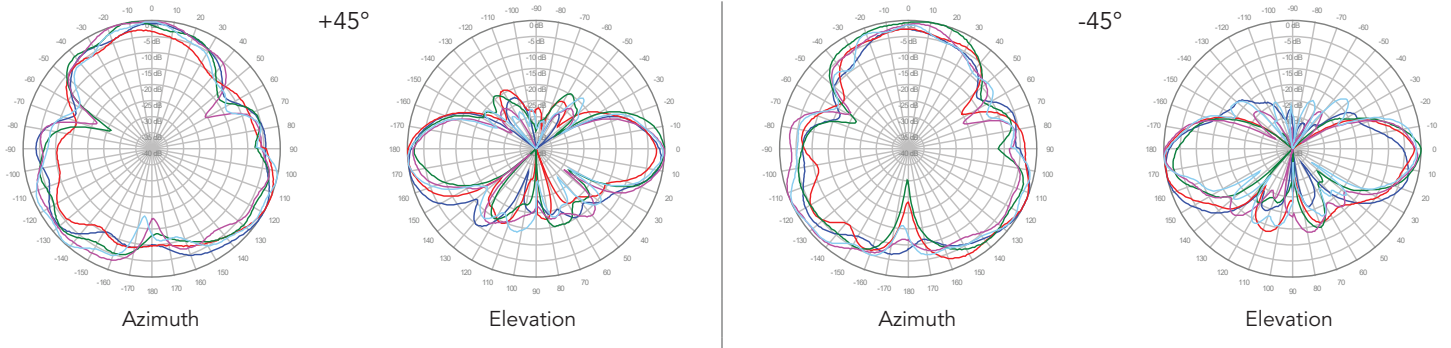
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FIXED TILT

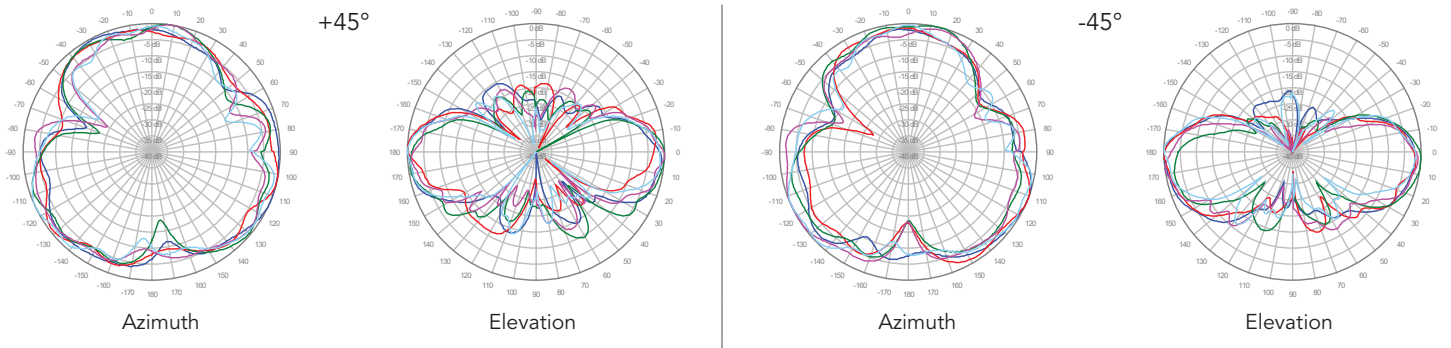
**2C4U6VT360X06Fwxys5**

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

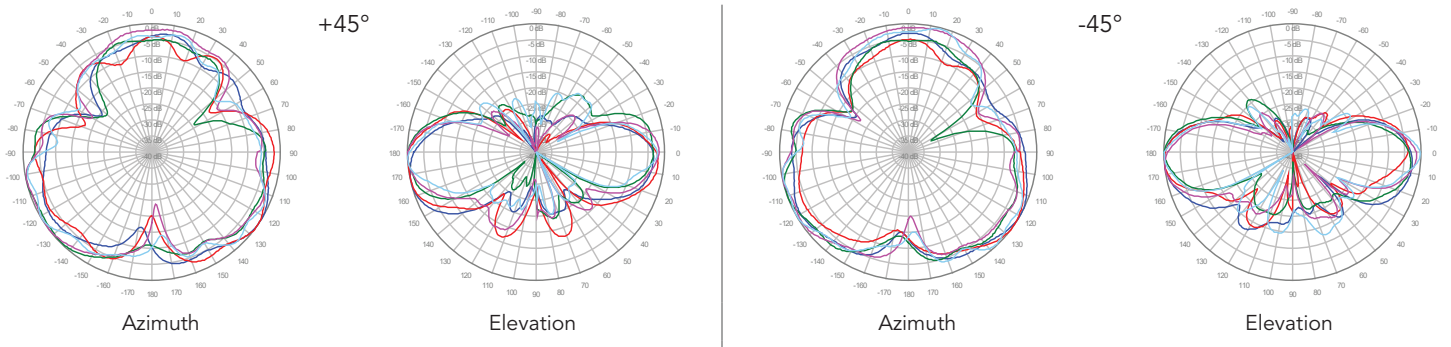
**Y1, 4° TILT**



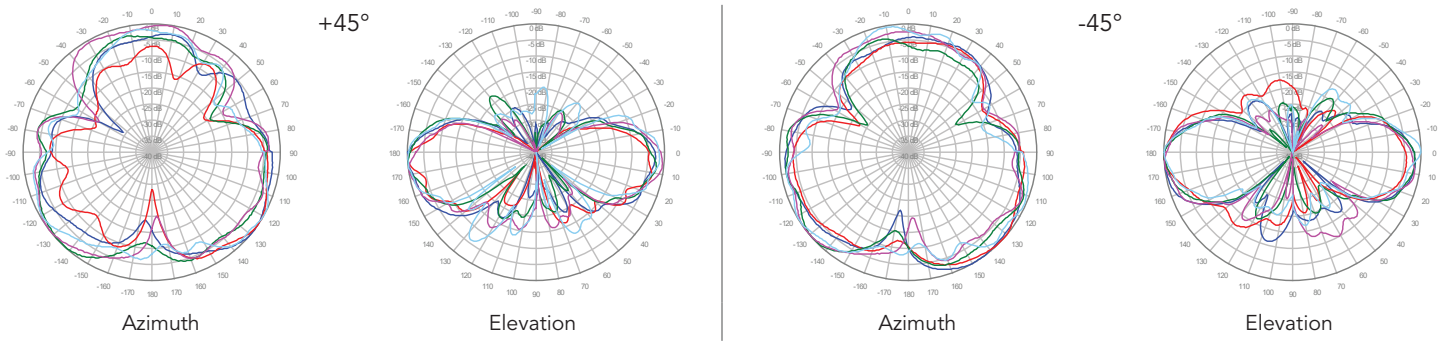
**Y2, 4° TILT**



**Y3, 4° TILT**



**Y4, 4° TILT**



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OMNI

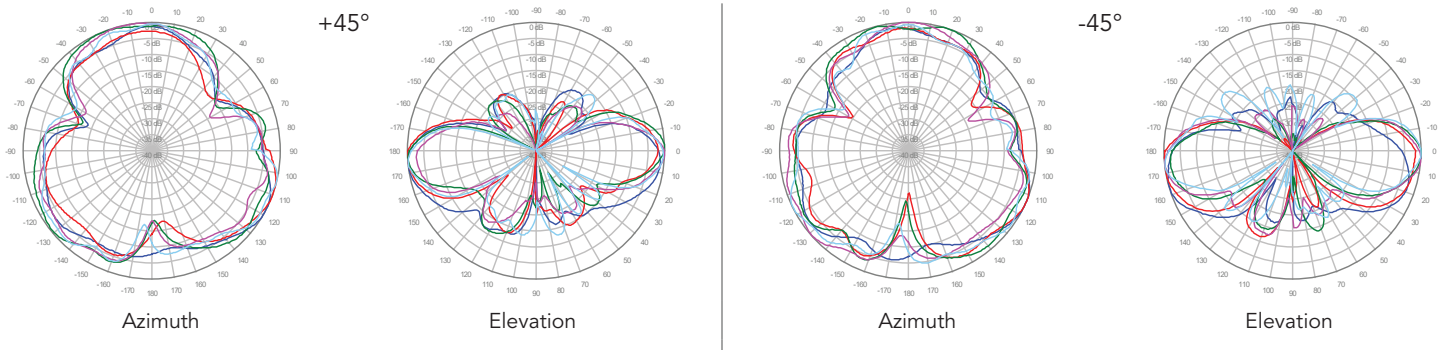
24.0 IN

FIXED TILT

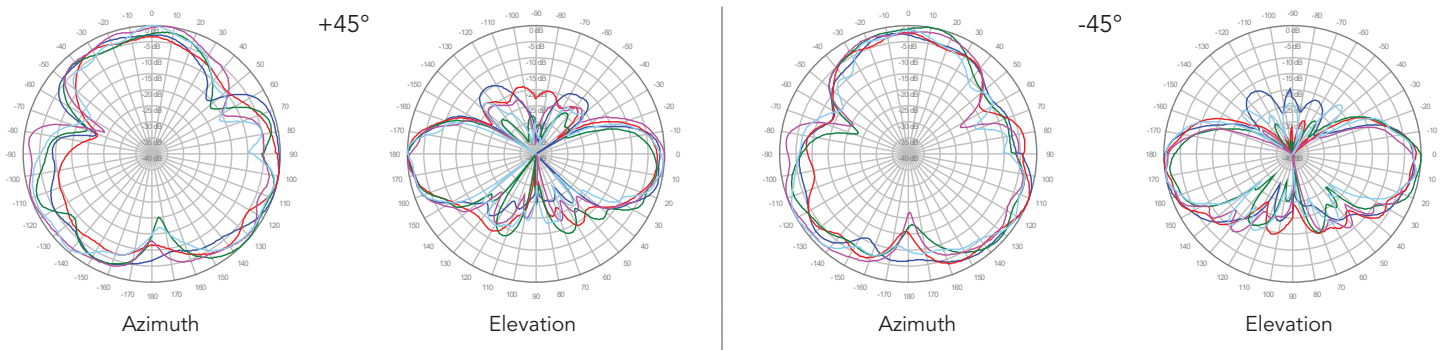
**2C4U6VT360X06Fwxys5**

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

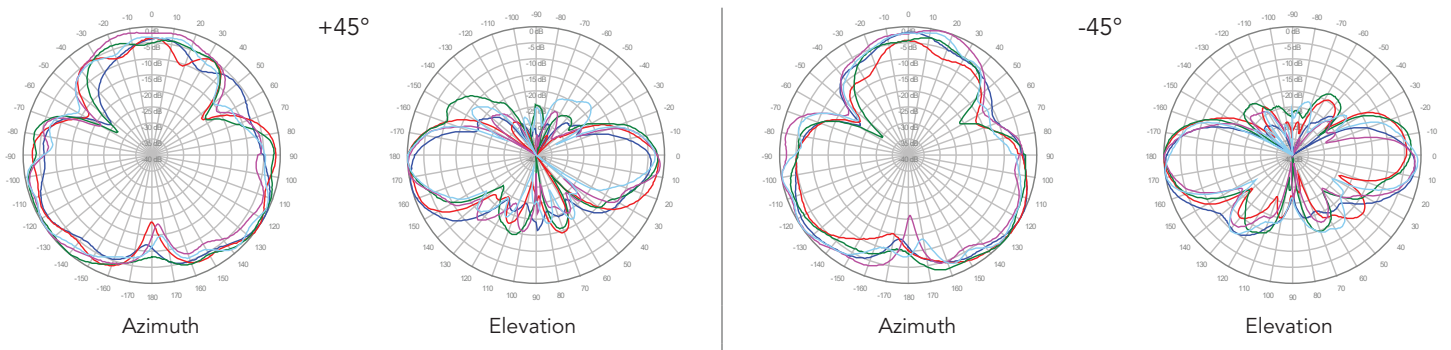
**Y1, 6° TILT**



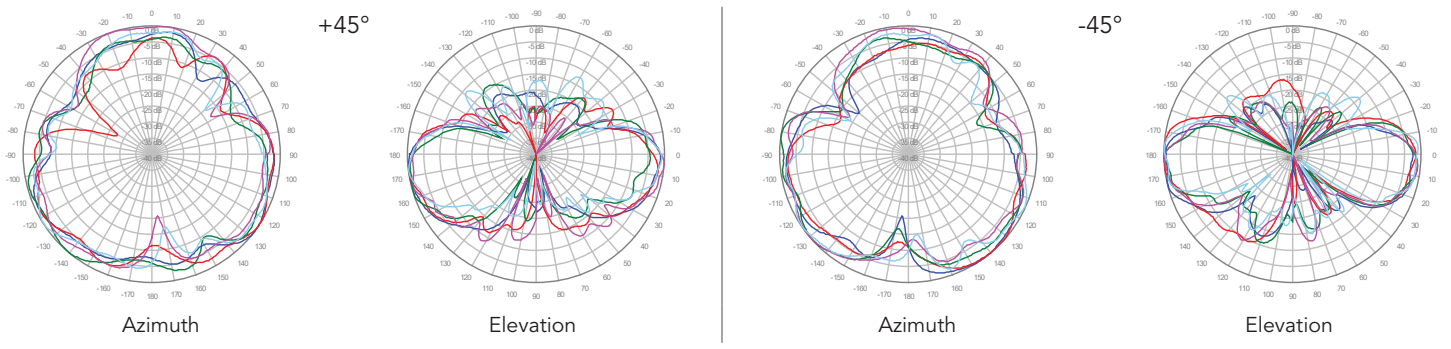
**Y2, 6° TILT**



**Y3, 6° TILT**



**Y4, 6° TILT**

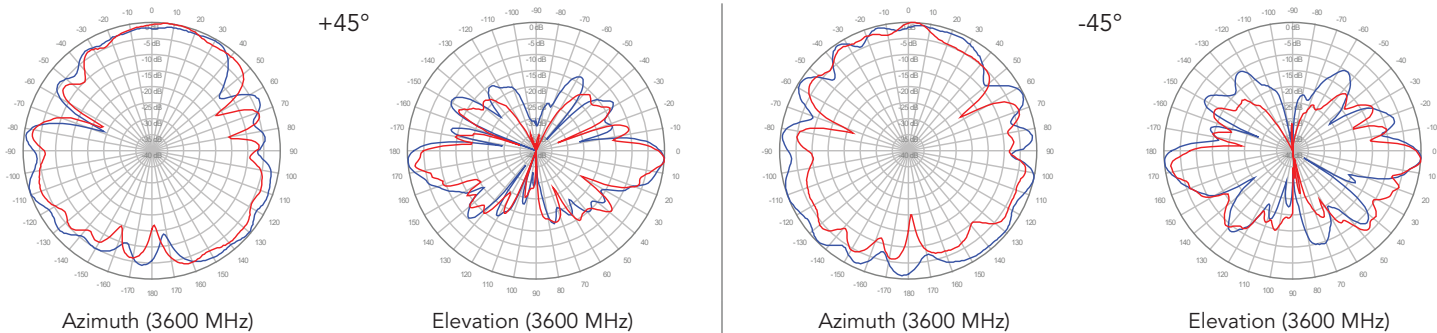


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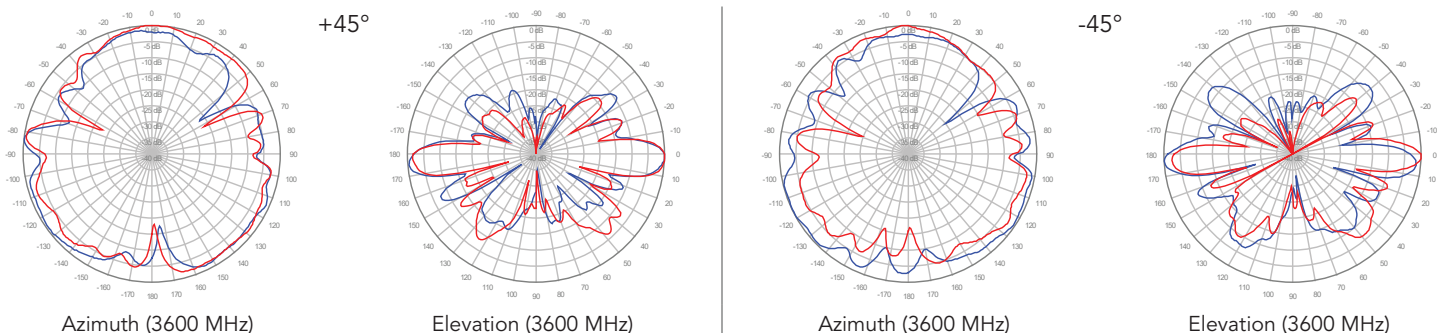
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3600 MHz ————  
4000 MHz ————

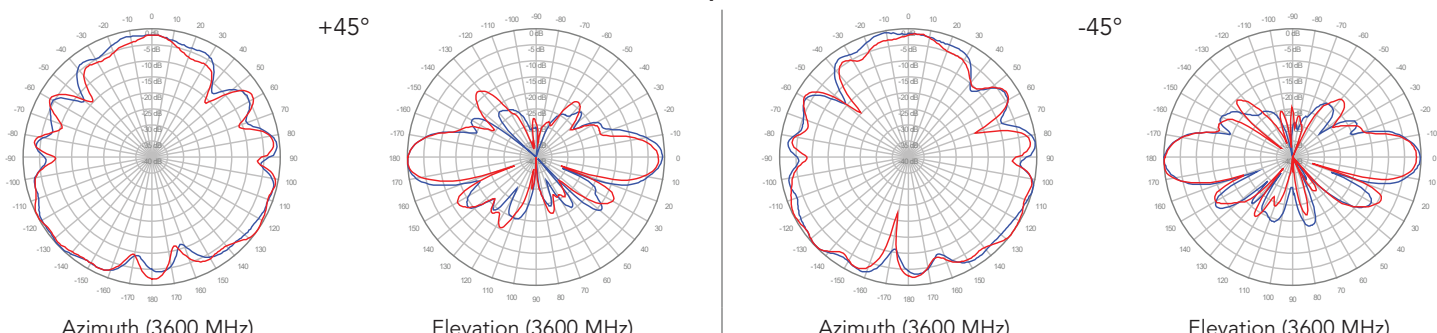
**P1, 2° TILT**



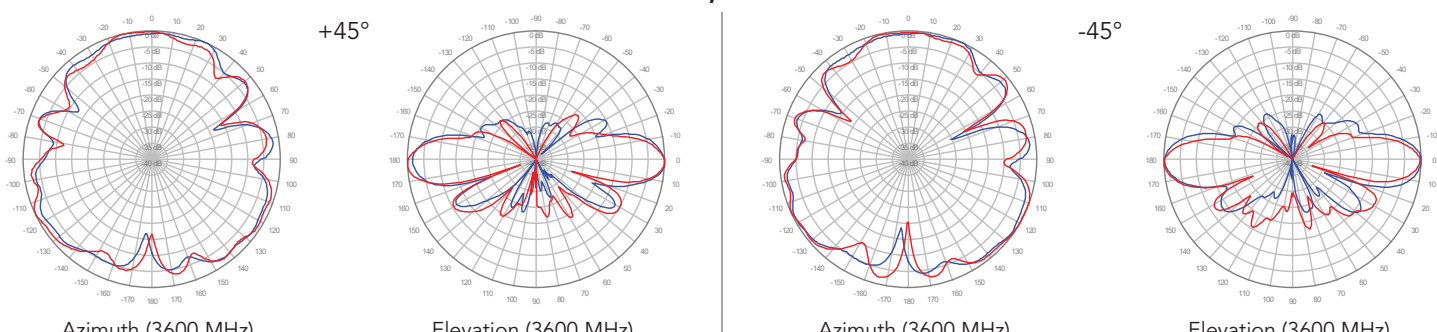
**P2, 2° TILT**



**P3, 2° TILT**



**P4, 2° TILT**

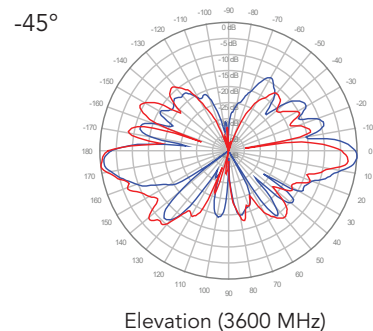
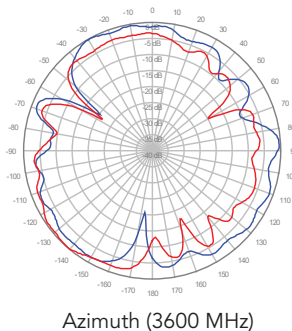
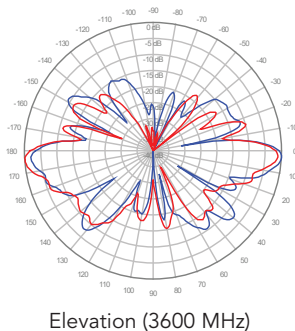
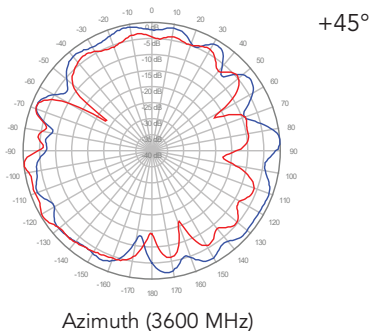


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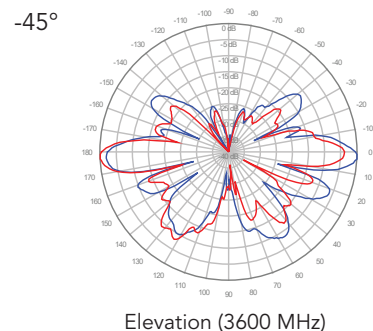
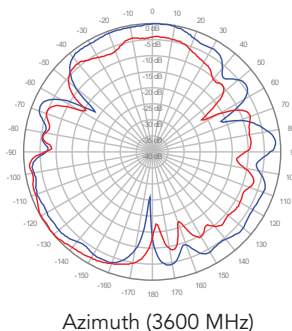
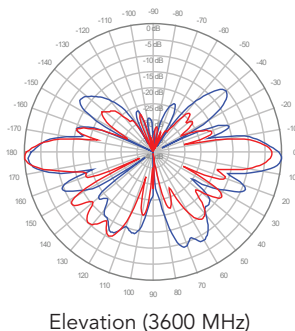
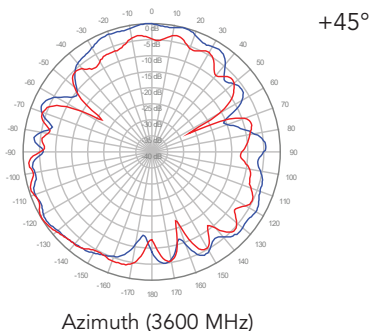
**2C4U6VT360X06Fwxys5**

3600 MHz ————  
4000 MHz ————

**P5, 2° TILT**



**P6, 2° TILT**



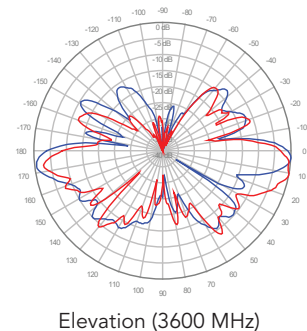
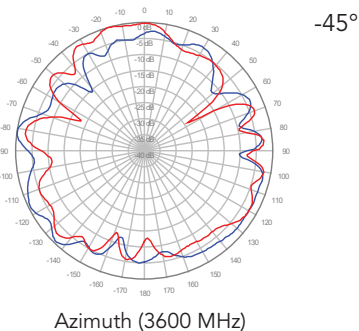
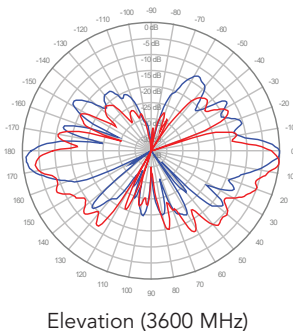
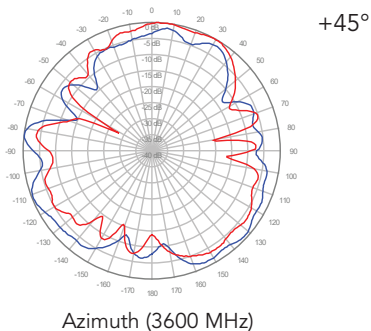
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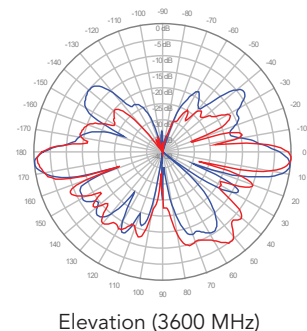
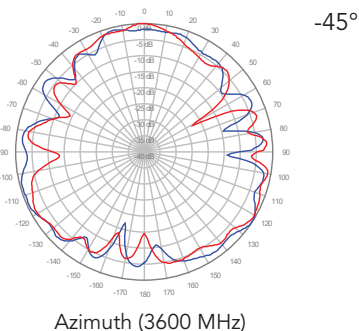
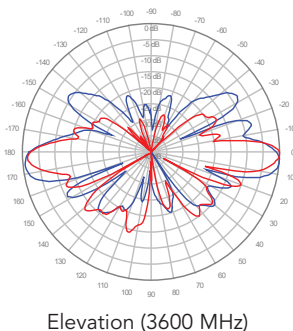
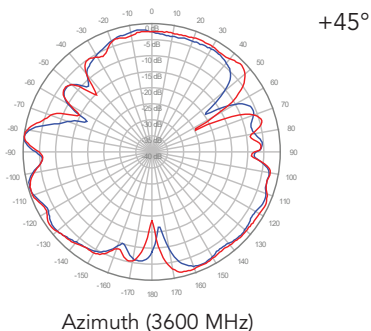
**2C4U6VT360X06Fwxys5**

3600 MHz ————  
4000 MHz ————

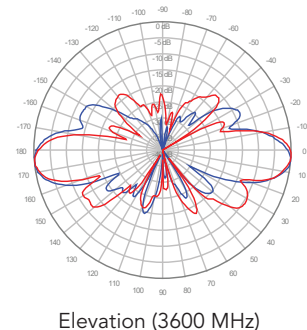
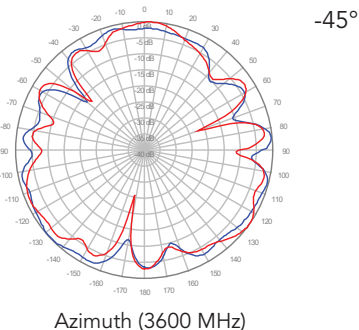
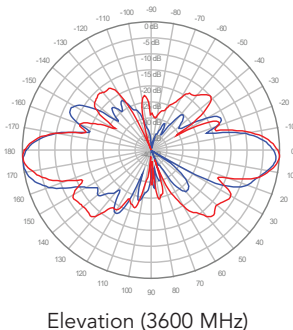
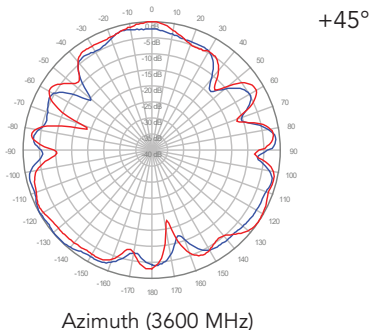
**P1, 4° TILT**



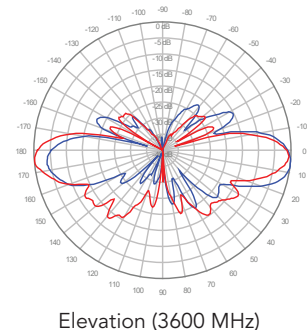
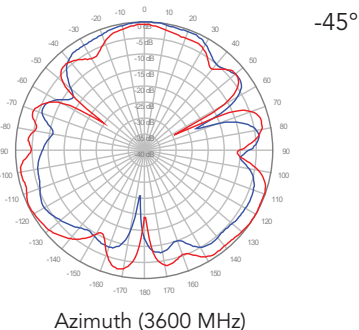
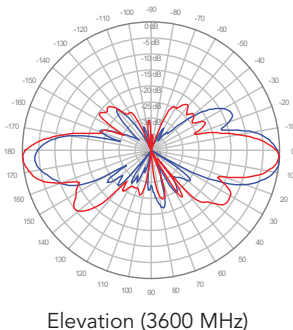
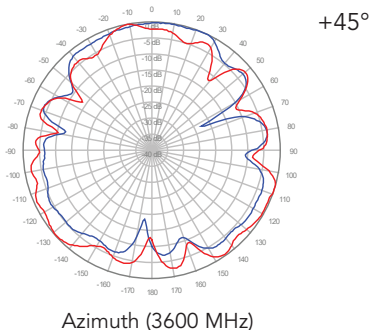
**P2, 4° TILT**



**P3, 4° TILT**



**P4, 4° TILT**

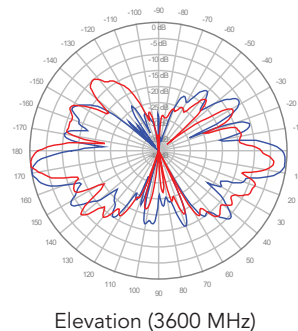
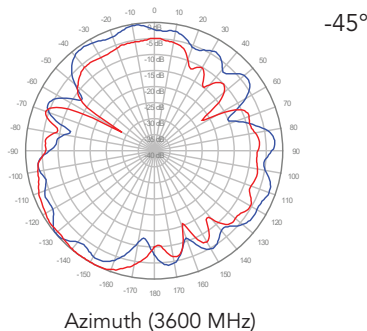
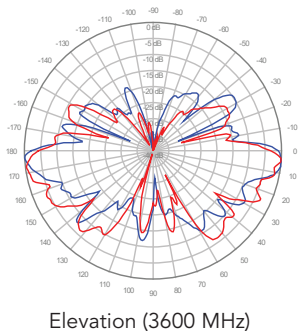
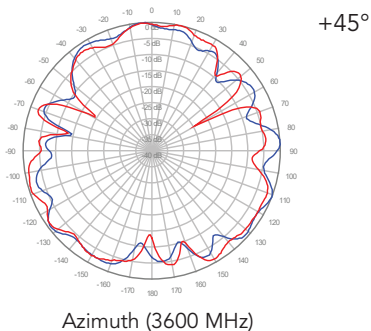


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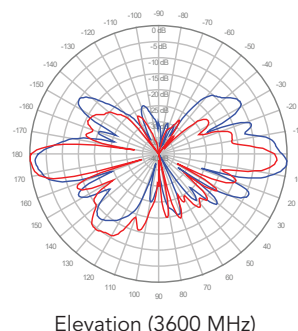
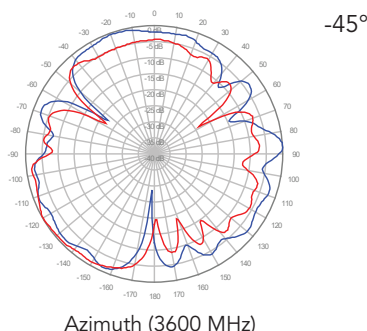
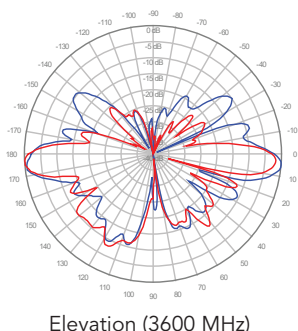
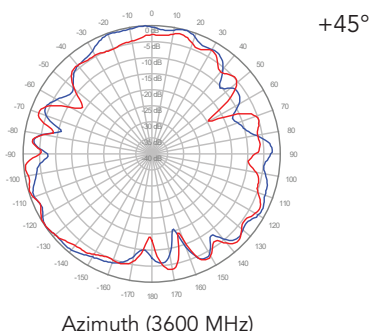
**2C4U6VT360X06Fwxys5**

3600 MHz ————  
4000 MHz ————

**P5, 4° TILT**



**P6, 4° TILT**

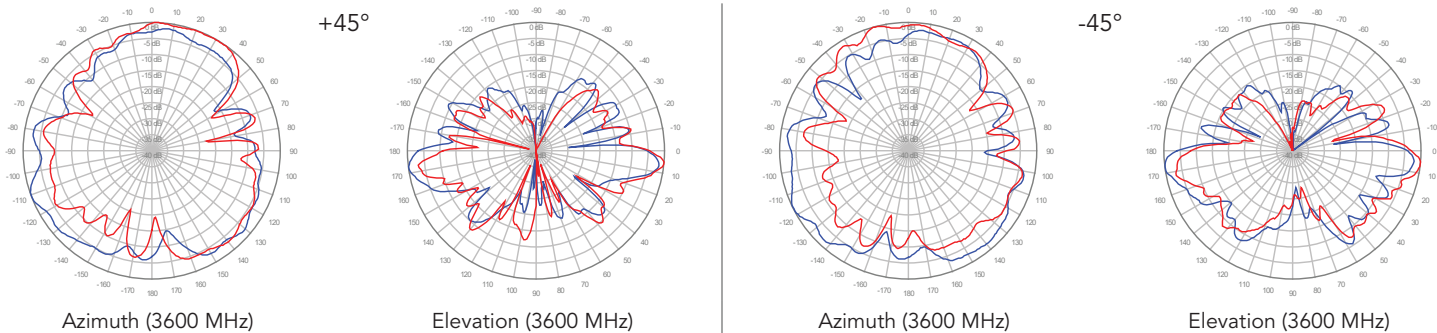


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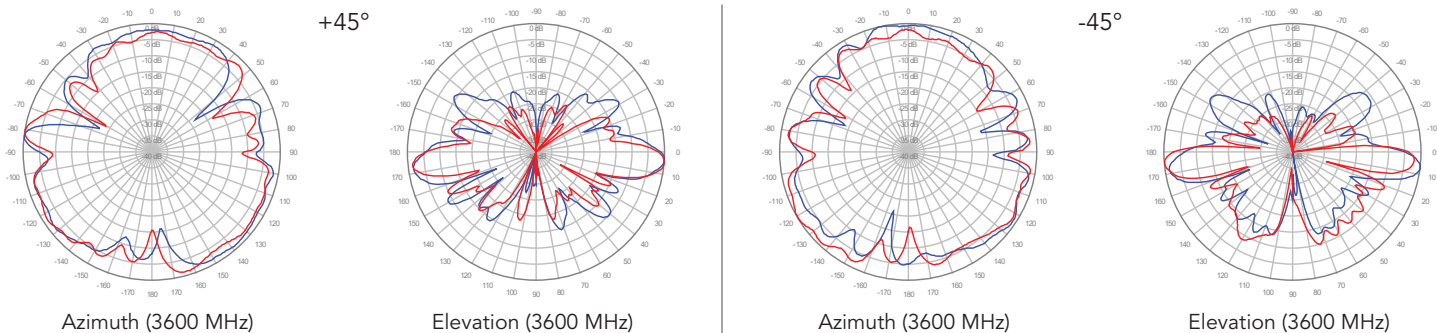
**2C4U6VT360X06Fwxys5**

3600 MHz ————  
4000 MHz ————

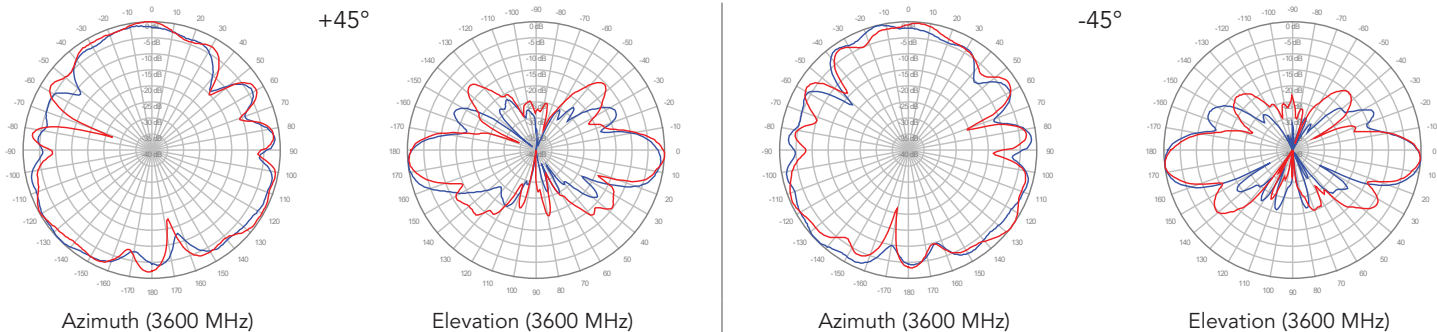
**P1, 6° TILT**



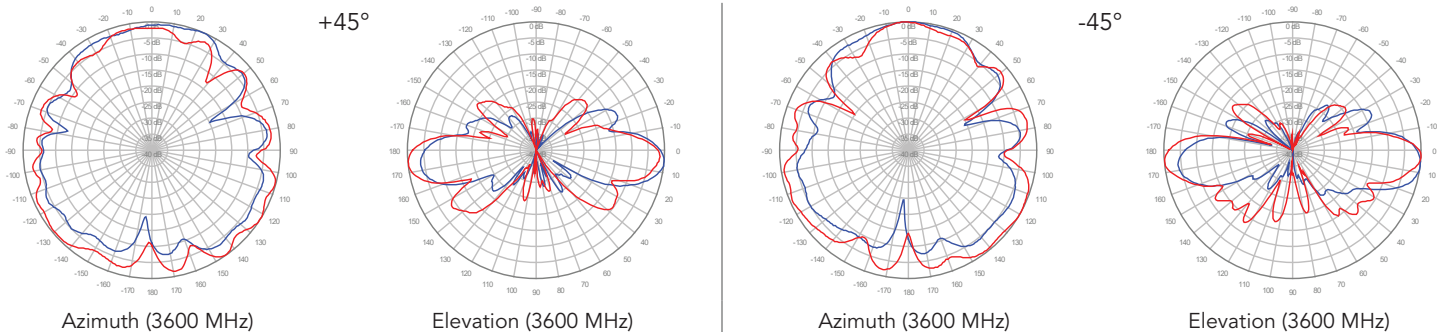
**P2, 6° TILT**



**P3, 6° TILT**



**P4, 6° TILT**

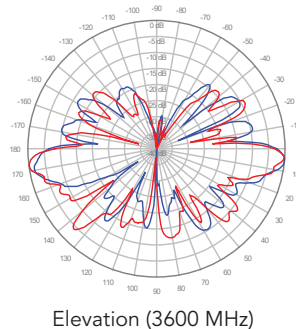
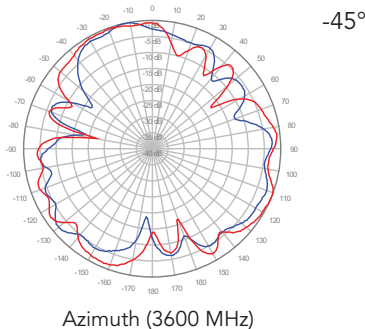
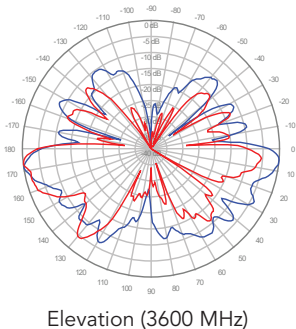
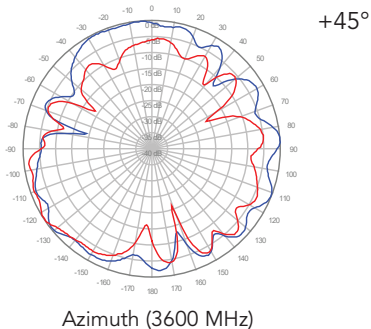


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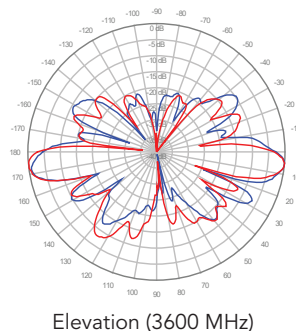
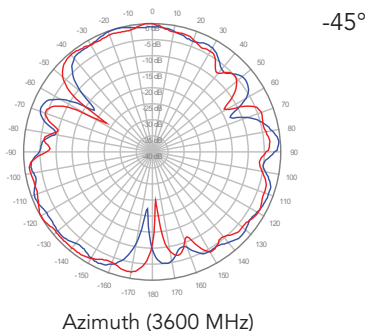
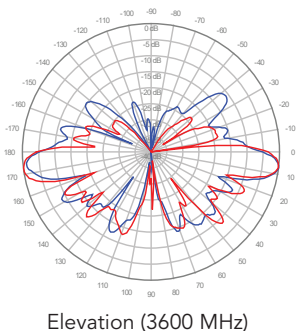
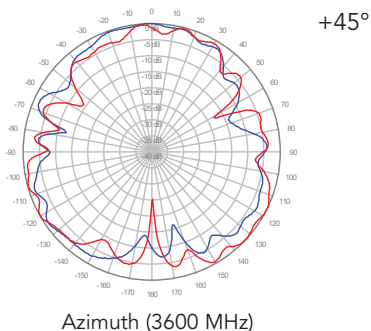
**2C4U6VT360X06Fwxys5**

3600 MHz ————  
4000 MHz ————

**P5, 6° TILT**



**P6, 6° TILT**



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