

## 4U6VT360X06F<sub>xy</sub>s4

### Features

- Pseudo omni configuration with 20 connectors
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 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)	(4x) 1695-2700	(4x) 3300-4200	(2x) 3300-4200
	Array	■ Y1, ■ Y2, ■ Y3, ■ Y4	■ P1, ■ P2, ■ P3, ■ P4	■ P5, ■ P6
	Connector	8 PORTS	8 PORTS	4 PORTS
	Polarization	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°	360°
	Electrical Downtilt	2°, 4°, 6°	2°, 4°, 6°	2°
	Configuration	OMNI CONFIGURATION		
	Maximum Continuous Power Per Port @ 50° C (122° F)	300 WATTS	100 WATTS	100 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	3600 WATTS		
	Connector Type	(20x) 4.3-10 FEMALE		
	Dimensions	609 x Ø371 mm (24.0 x Ø14.6 in)		
	Radome Color Options	GREY, BROWN or BLACK		

### 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	8.6 ± 1.3	9.7 ± 1.4	9.9 ± 1.4	9.8 ± 1.1
	MAX	dBi	9.9	11.1	11.3	10.9
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	19.8° ± 2.9°	18.4° ± 1.9°	18.1° ± 1.8°	15.4° ± 1.9°
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	> 24			
	Interband	dB	> 25			

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### ELECTRICAL SPECIFICATIONS

■ P1 ■ P2 ■ P3 ■ P4

Frequency Range		MHz	(4x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(4x) $\pm 45^\circ$		
Gain	BASTA	dBi	$8.7 \pm 1.0$	$9.3 \pm 0.9$	$10.0 \pm 1.0$
	MAX	dBi	9.7	10.2	11.0
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	$12.3^\circ \pm 1.4^\circ$	$11.2^\circ \pm 1.0^\circ$	$10.7^\circ \pm 0.9^\circ$
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 bands		

### ELECTRICAL SPECIFICATIONS

■ P5 ■ P6

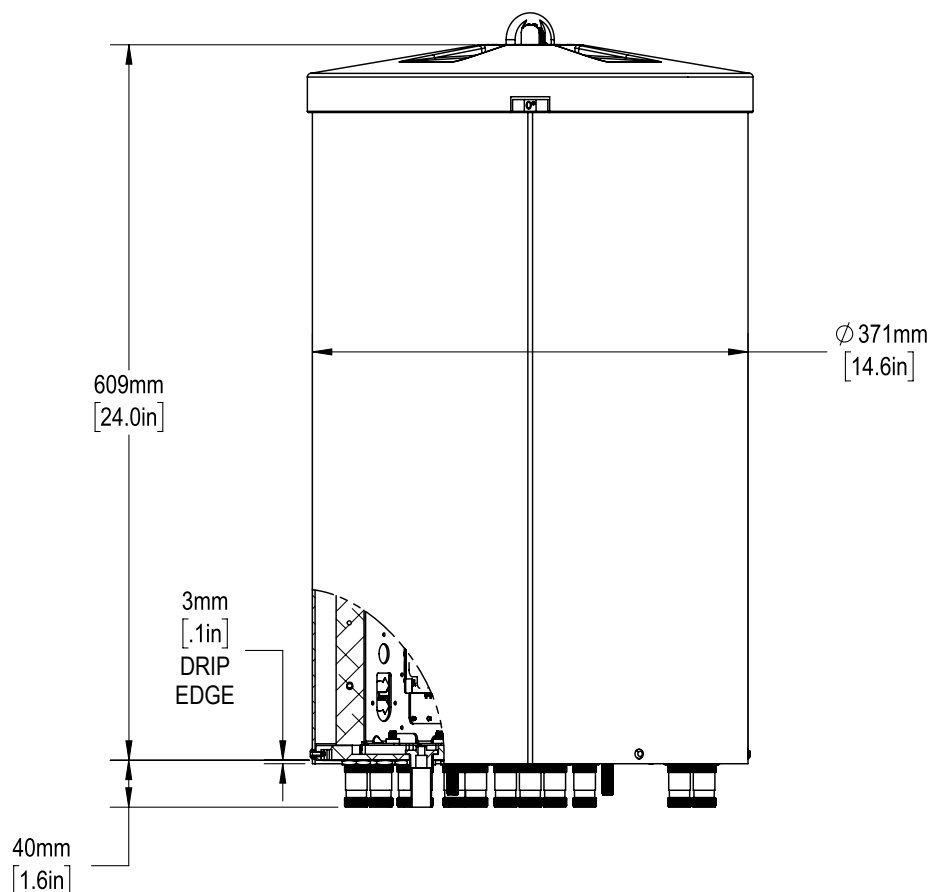
Frequency Range		MHz	(2x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(2x) $\pm 45^\circ$		
Gain	BASTA	dBi	$7.0 \pm 0.7$	$7.2 \pm 0.9$	$9.3 \pm 1.0$
	MAX	dBi	7.7	8.1	10.3
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	$28.6^\circ \pm 2.9^\circ$	$28.6^\circ \pm 2.2^\circ$	$26.5^\circ \pm 3.6^\circ$
Electrical Downtilt		degrees	2°		
Impedance		Ohms	50Ω		
VSWR		---	< 1.5:1		
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153		
Upper Sidelobe Suppression		dB	> 12.2	> 13.3	> 14.1
Isolation	Intraband	dB	> 25		
	Interband	dB	> 28 same band; > 30 different bands		

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## 4U6VT360X06F<sub>xy</sub>s4

### MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	609 (24.0)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	15 (33)
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	---	(20x) 4.3-10 Female
	Position	---	Bottom
Radome Color		---	Grey (RAL 7035), Brown (RAL 8022), Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground

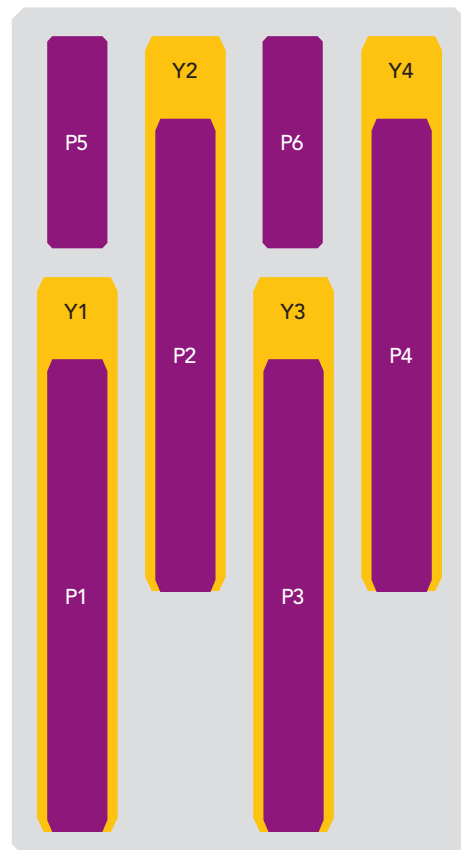


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### ARRAY LAYOUT Topology

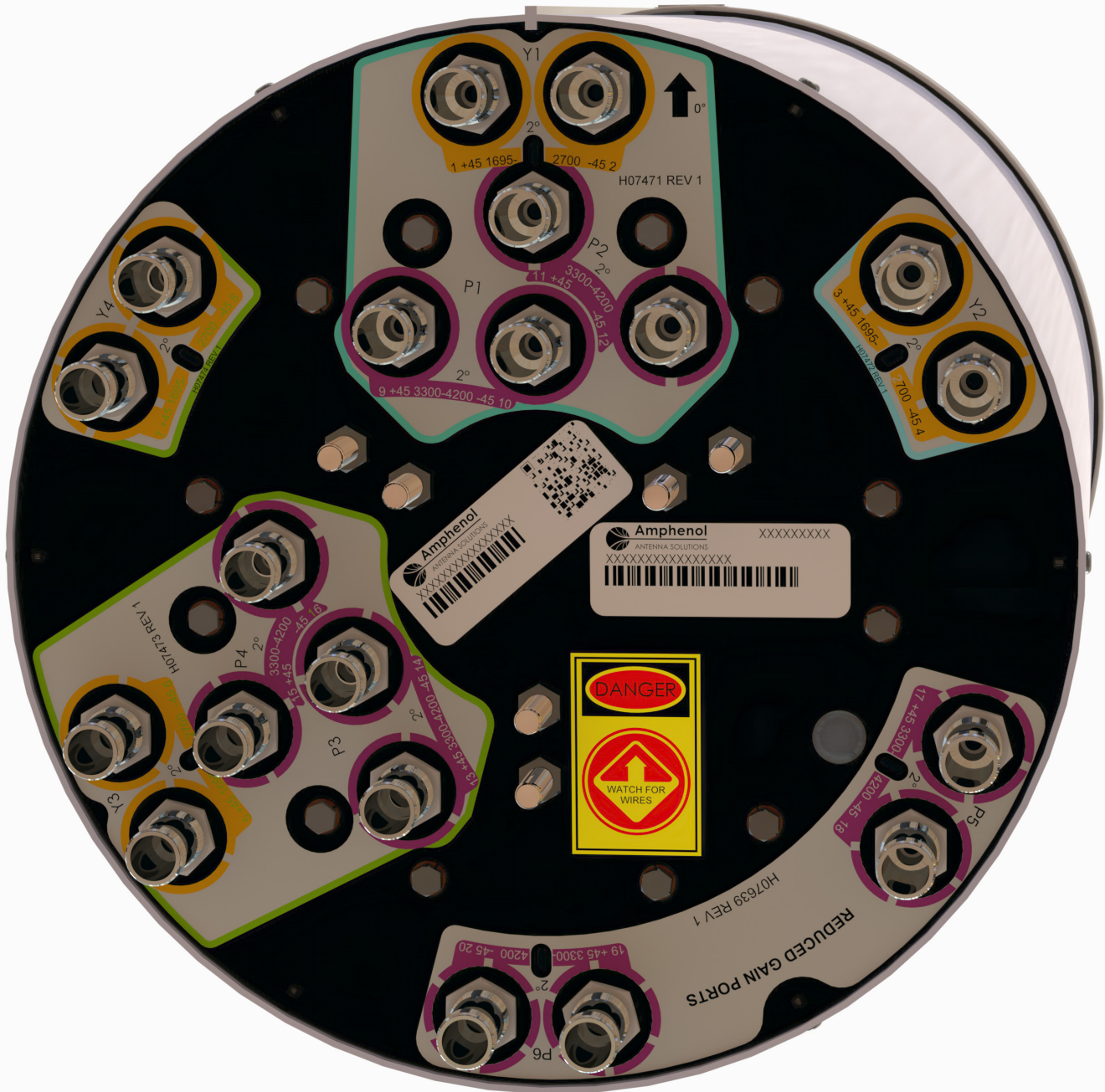
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
1695-2700 MHz	■ Y1	1-2	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	■ Y3	5-6	(2x) 4.3-10 Female
1695-2700 MHz	■ Y4	7-8	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	9-10	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	11-12	(2x) 4.3-10 Female
3300-4200 MHz	■ P3	13-14	(2x) 4.3-10 Female
3300-4200 MHz	■ P4	15-16	(2x) 4.3-10 Female
3300-4200 MHz	■ P5	17-18	(2x) 4.3-10 Female
3300-4200 MHz	■ P6	19-20	(2x) 4.3-10 Female



The illustration is not shown to scale.

## 4U6VT360X06F<sub>xy</sub>s4

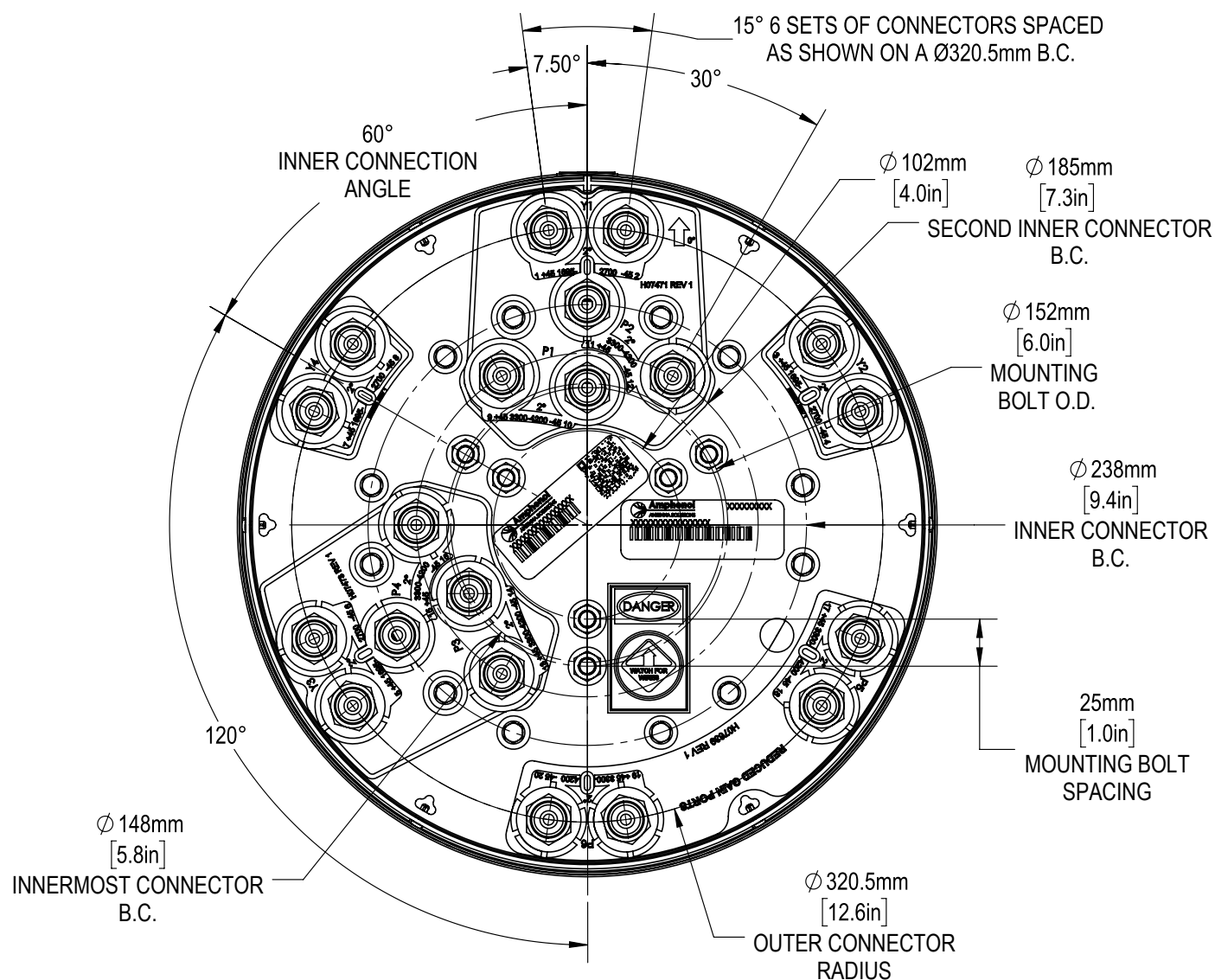
### BOTTOM VIEW - LABELING



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## 4U6VT360X06F<sub>xy</sub>s4

### 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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## 4U6VT360X06F<sub>xys</sub>4

**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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## 4U6VT360X06F<sub>xy</sub>s4

**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
4U	6V	T	360	X	06	F	<sub>xy</sub>	s	4	BK BR
(4x) 1695-2700	(6x) 3300-4200	Tri-Sector	360°	XPOL	0.6 meters	Fixed Tilt	<p>These letters are placeholders for fixed tilt options.</p> <p>Refer to Electrical Specifications for available tilt options.</p>	4.3-10 Connector	Generation 4 enhanced mechanical package	<p>BK indicates a Black radome.</p> <p>BR indicates a Brown radome.</p> <p>The default radome color is Grey. No letters are required for a Grey radome.</p>

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## 4U6VT360X06F<sub>xys</sub>4

### ORDERING OPTIONS Select from the following ordering options

SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ANTENNA MODEL
	1695-2700 MHz	3300-4200 MHz	3300-4200 MHz	
Grey RAL 7035	2°	2°	2°	4U6VT360X06F22s4
	2°	4°	2°	4U6VT360X06F24s4
	2°	6°	2°	4U6VT360X06F26s4
	4°	2°	2°	4U6VT360X06F42s4
	4°	4°	2°	4U6VT360X06F44s4
	4°	6°	2°	4U6VT360X06F46s4
	6°	2°	2°	4U6VT360X06F62s4
	6°	4°	2°	4U6VT360X06F64s4
	6°	6°	2°	4U6VT360X06F66s4
Brown RAL 8022	2°	2°	2°	4U6VT360X06F22s4BR
	2°	4°	2°	4U6VT360X06F24s4BR
	2°	6°	2°	4U6VT360X06F26s4BR
	4°	2°	2°	4U6VT360X06F42s4BR
	4°	4°	2°	4U6VT360X06F44s4BR
	4°	6°	2°	4U6VT360X06F46s4BR
	6°	2°	2°	4U6VT360X06F62s4BR
	6°	4°	2°	4U6VT360X06F64s4BR
	6°	6°	2°	4U6VT360X06F66s4BR
Black RAL 9011	2°	2°	2°	4U6VT360X06F22s4BK
	2°	4°	2°	4U6VT360X06F24s4BK
	2°	6°	2°	4U6VT360X06F26s4BK
	4°	2°	2°	4U6VT360X06F42s4BK
	4°	4°	2°	4U6VT360X06F44s4BK
	4°	6°	2°	4U6VT360X06F46s4BK
	6°	2°	2°	4U6VT360X06F62s4BK
	6°	4°	2°	4U6VT360X06F64s4BK
	6°	6°	2°	4U6VT360X06F66s4BK

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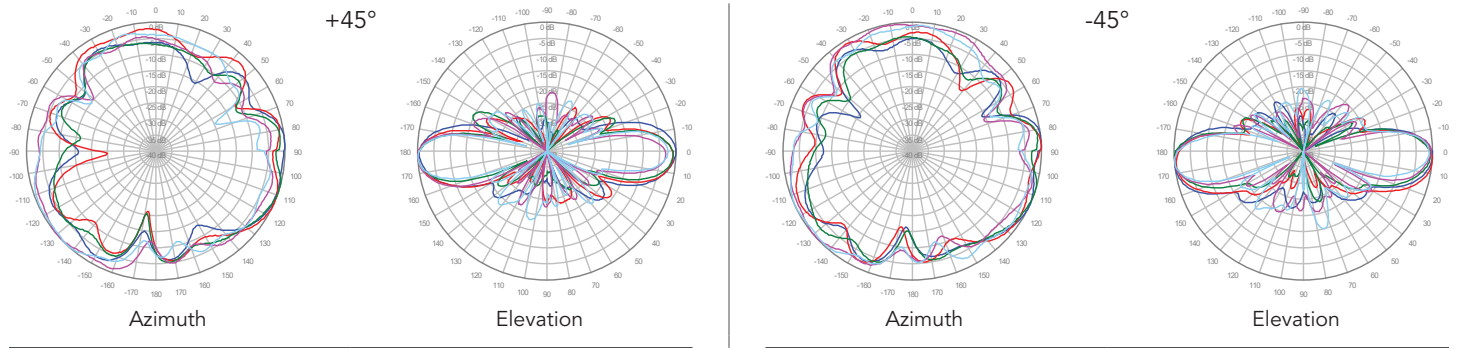
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FIXED TILT

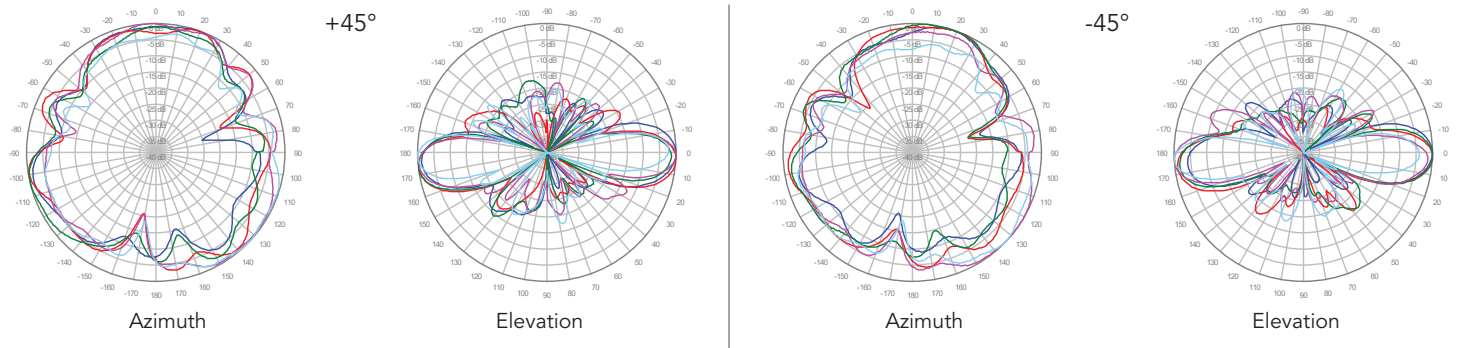
## 4U6VT360X06F<sub>xys</sub>4

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

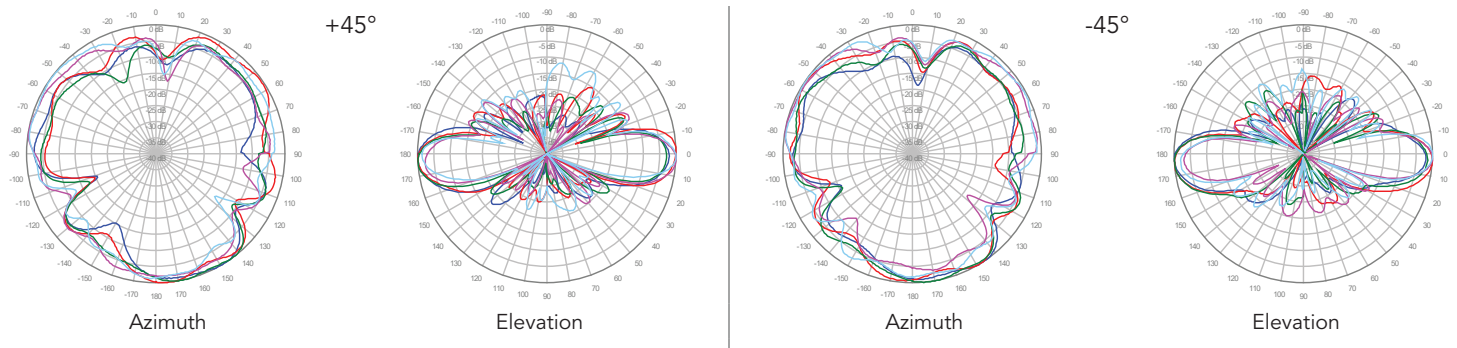
■ Y1, 2° TILT



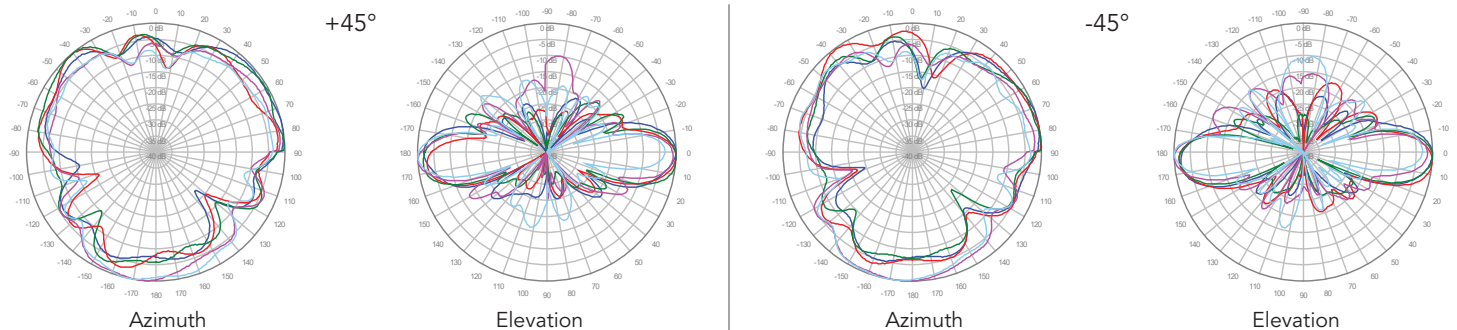
■ Y2, 2° TILT



■ Y3, 2° TILT



■ Y4, 2° TILT



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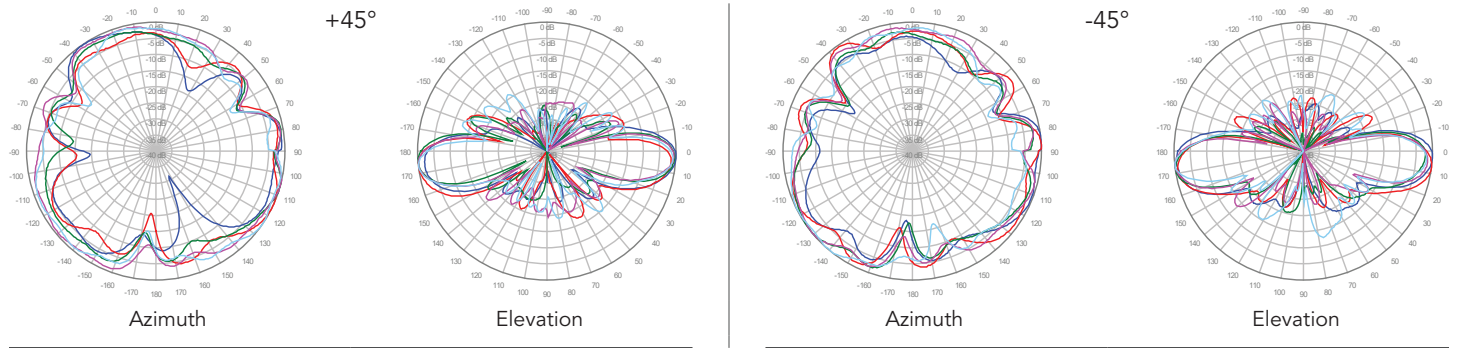
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FIXED TILT

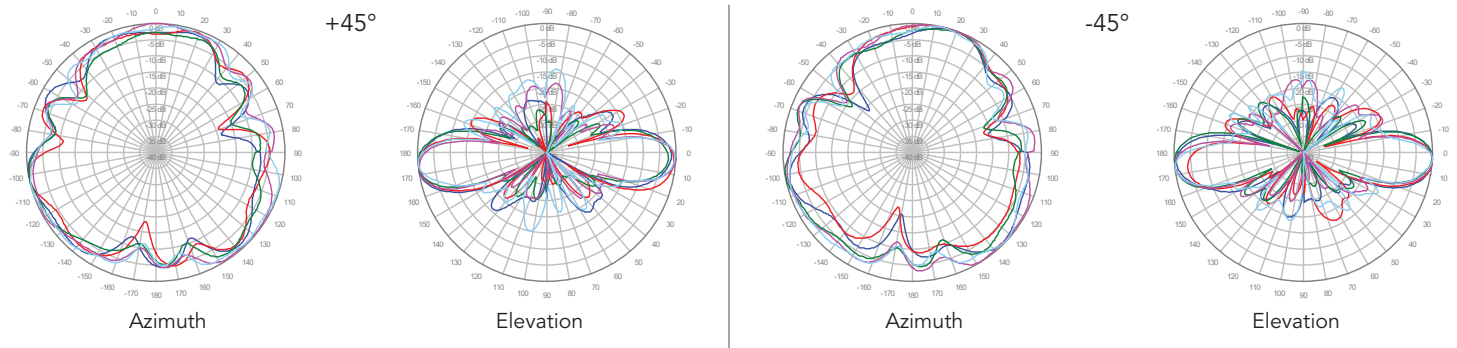
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1800 MHz —  
1900 MHz —  
2100 MHz —  
2300 MHz —  
2600 MHz —

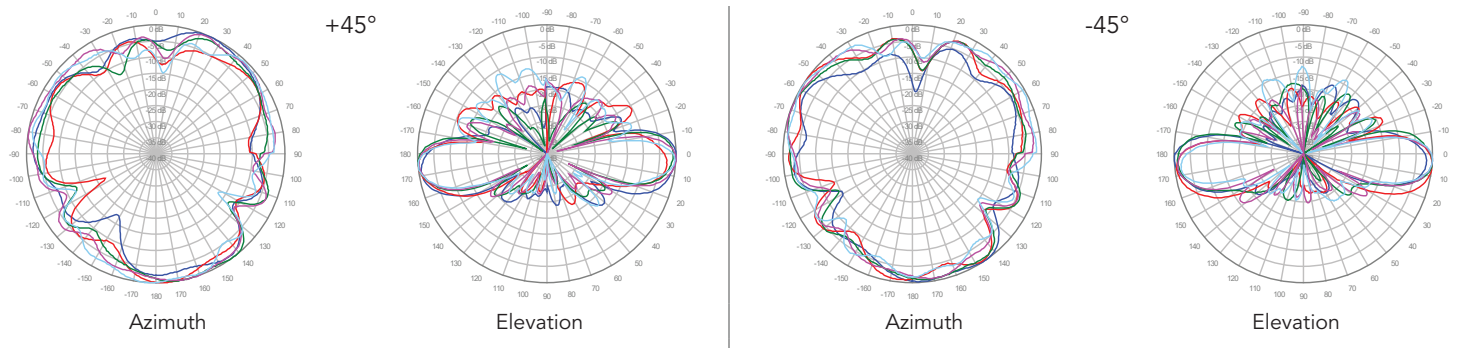
■ Y1, 4° TILT



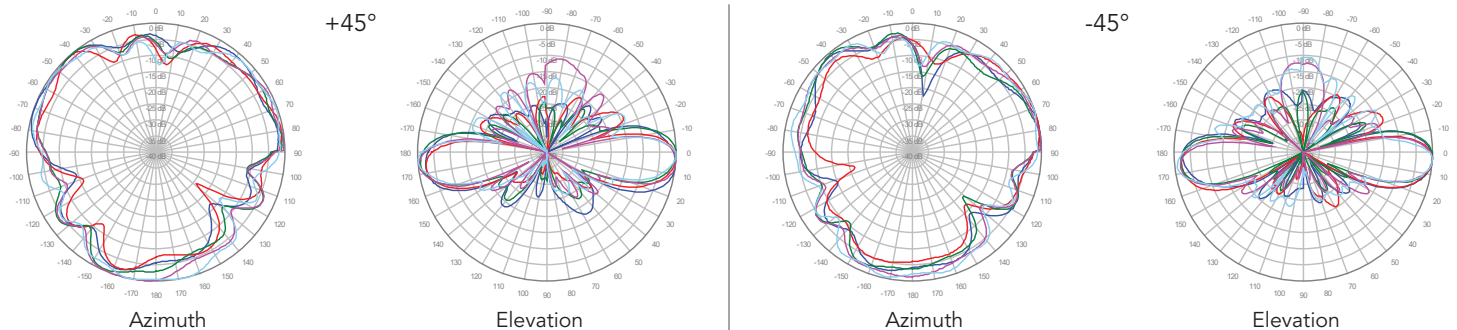
■ Y2, 4° TILT



■ Y3, 4° TILT



■ Y4, 4° TILT



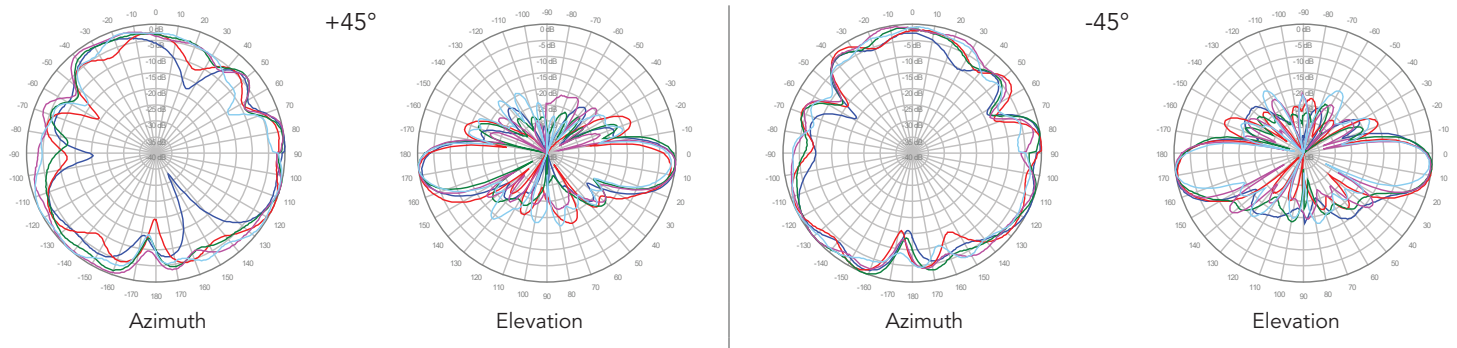
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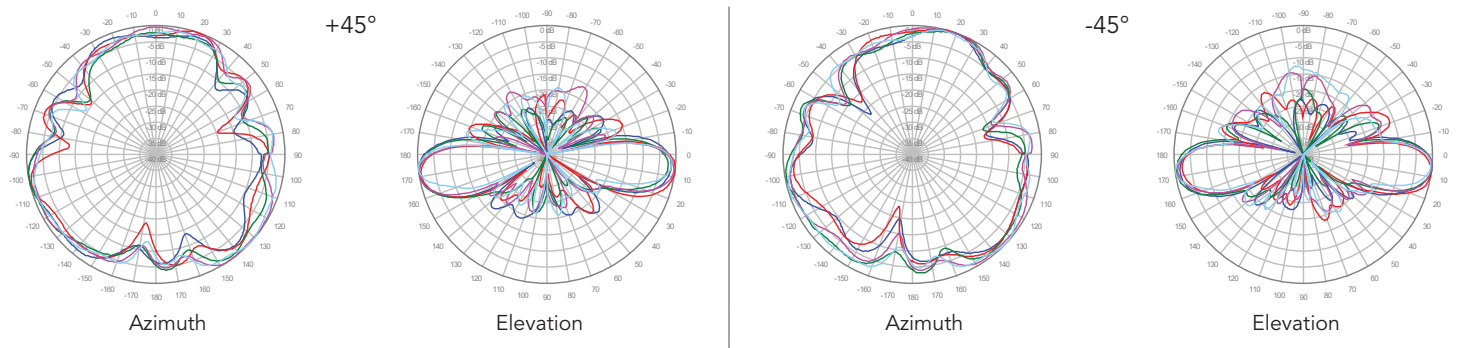
## 4U6VT360X06F<sub>xys4</sub>

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

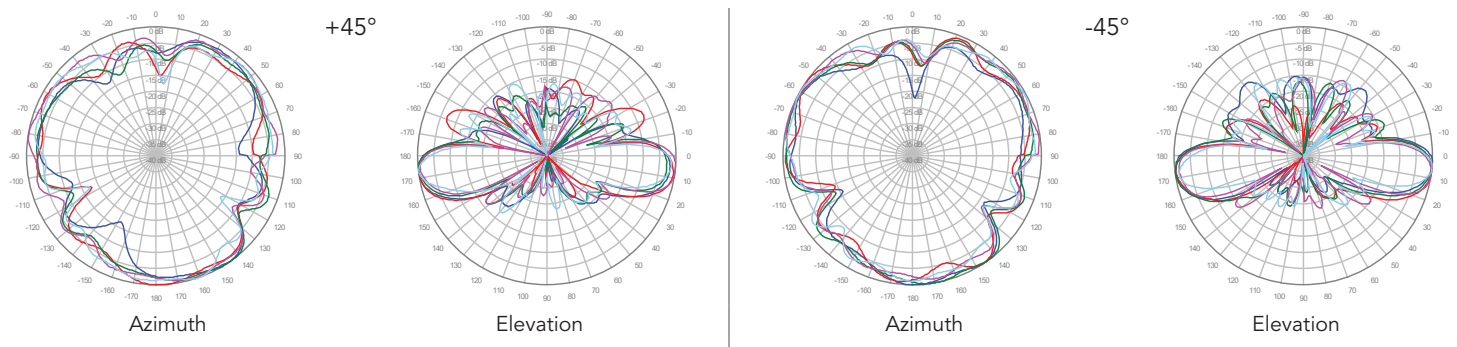
■ Y1, 6° TILT



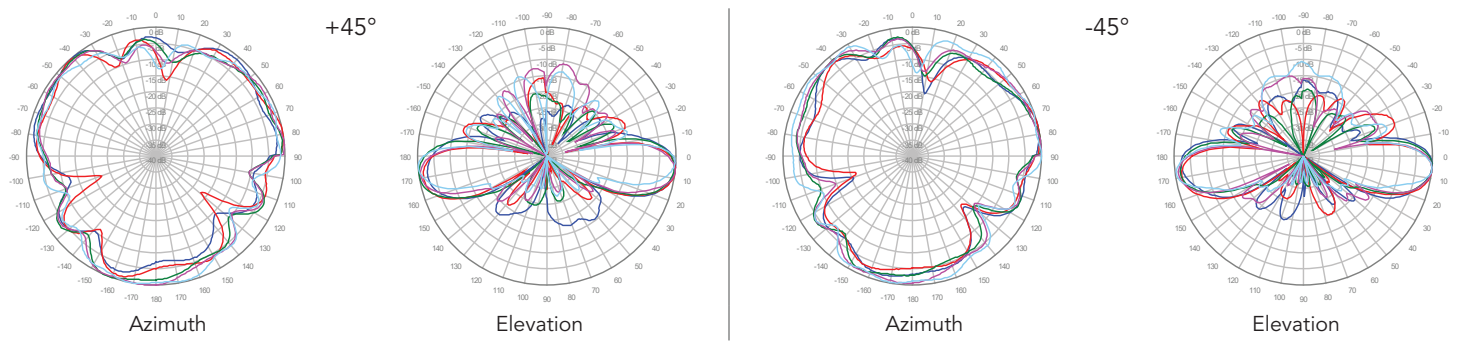
■ Y2, 6° TILT



■ Y3, 6° TILT



■ Y4, 6° TILT



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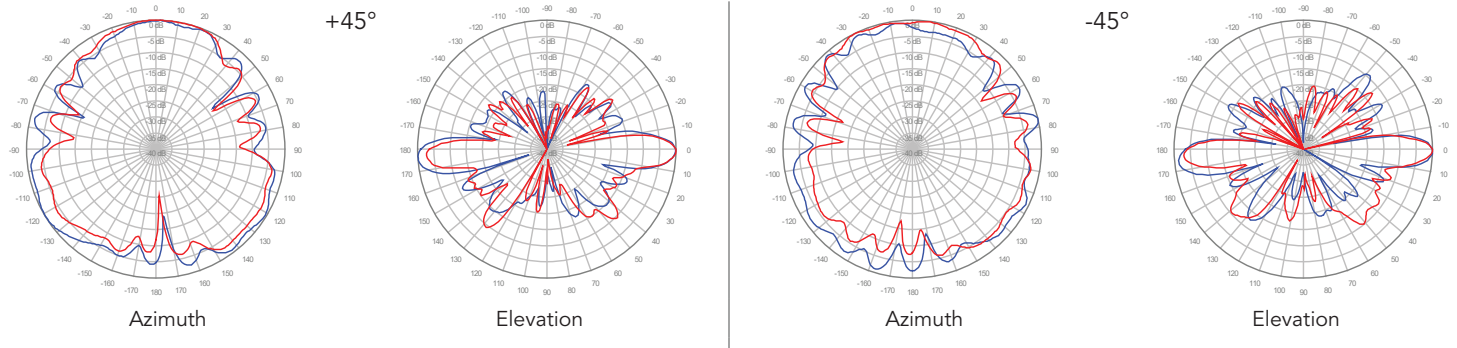
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FIXED TILT

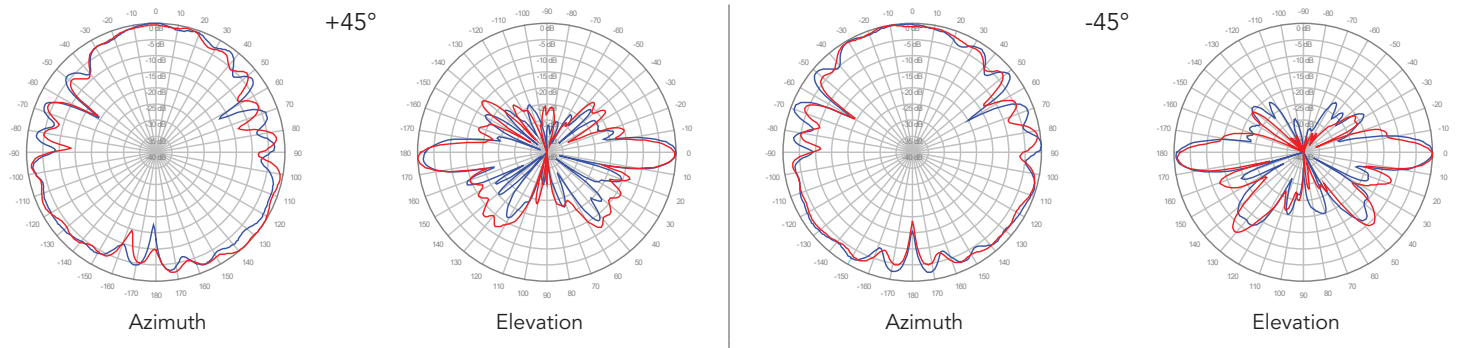
3600 MHz ————  
4000 MHz ————

## 4U6VT360X06F<sub>xys</sub>4

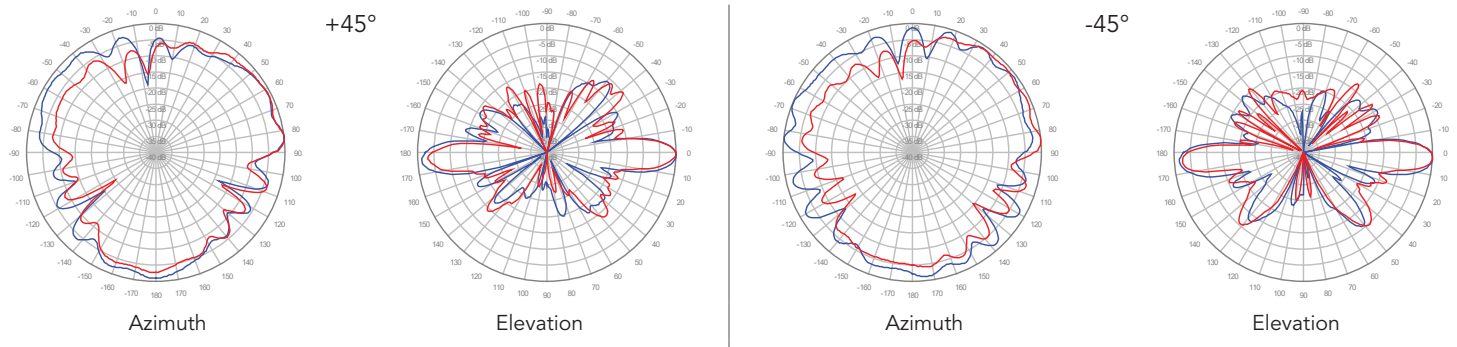
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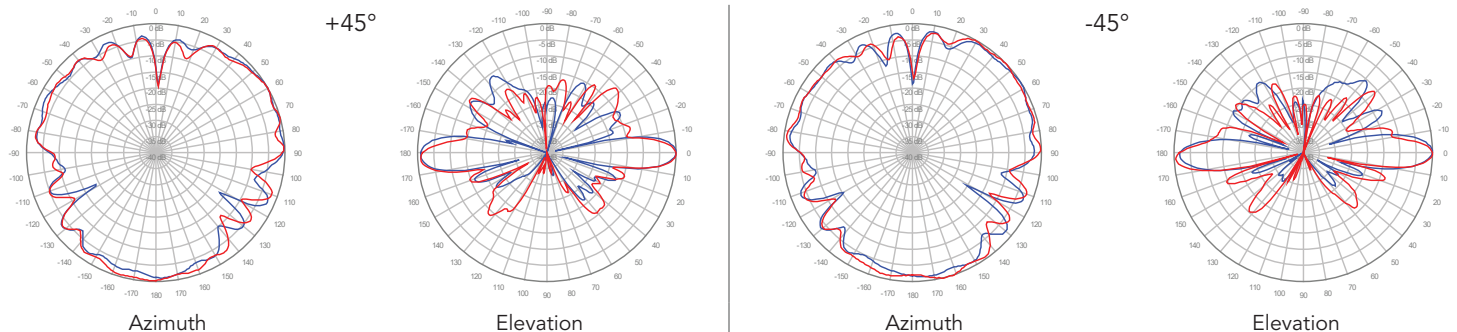
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### P3, 2° TILT



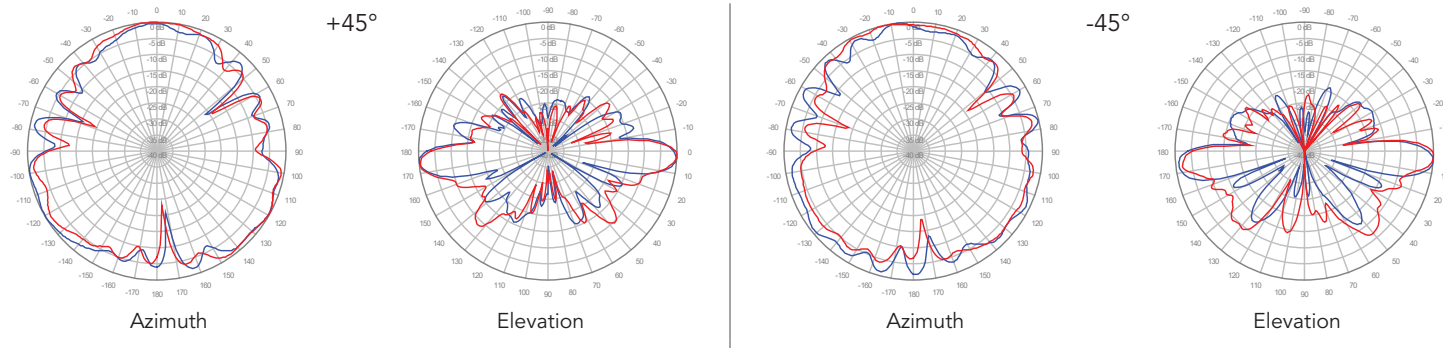
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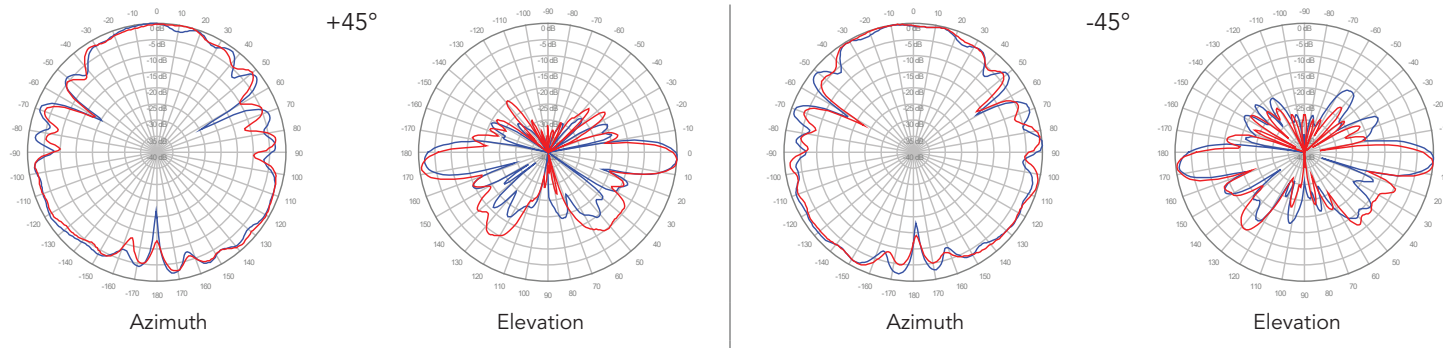
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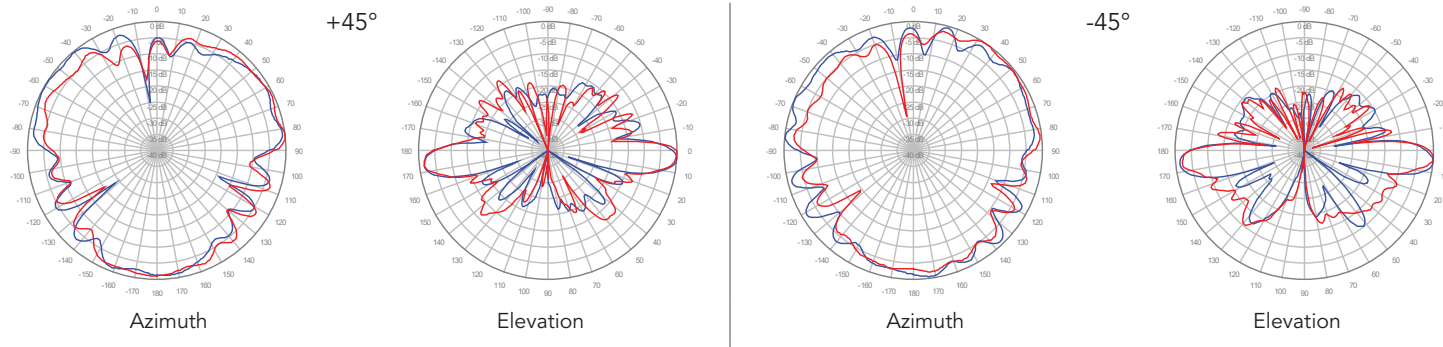
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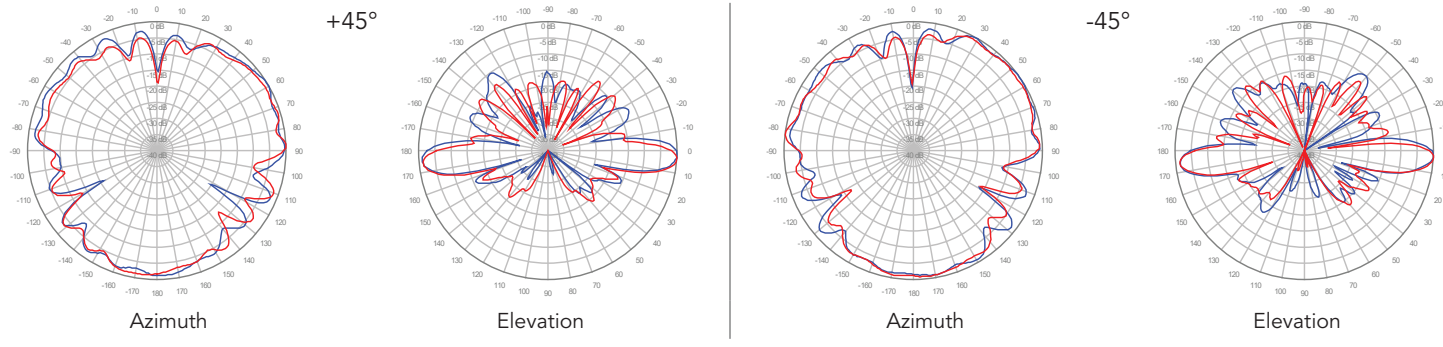
### P2, 4° TILT



### P3, 4° TILT



### P4, 4° TILT

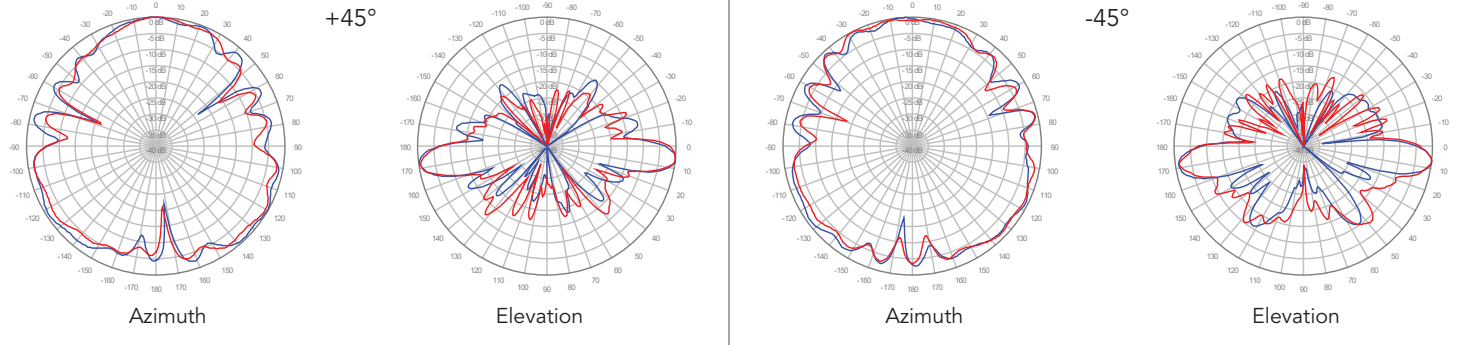


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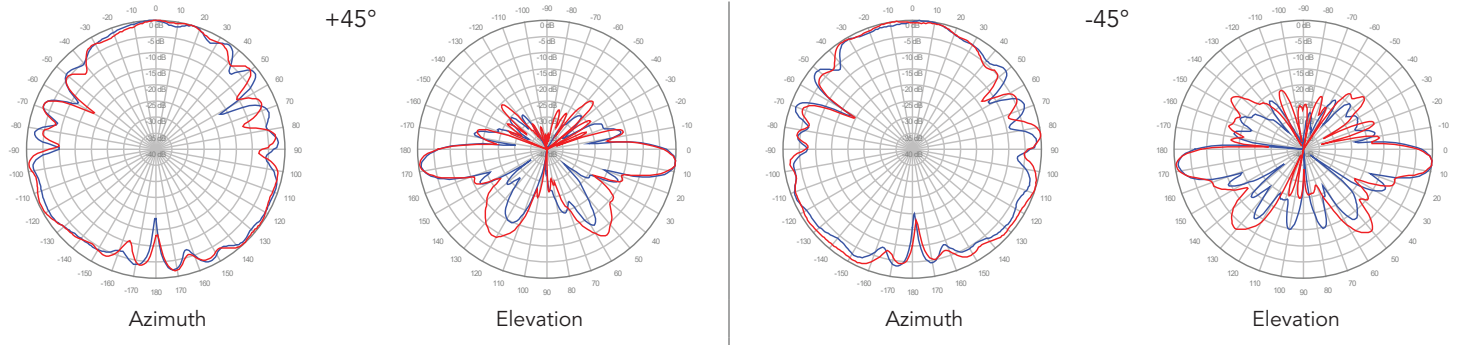


4U6VT360X06F<sub>xys</sub>4

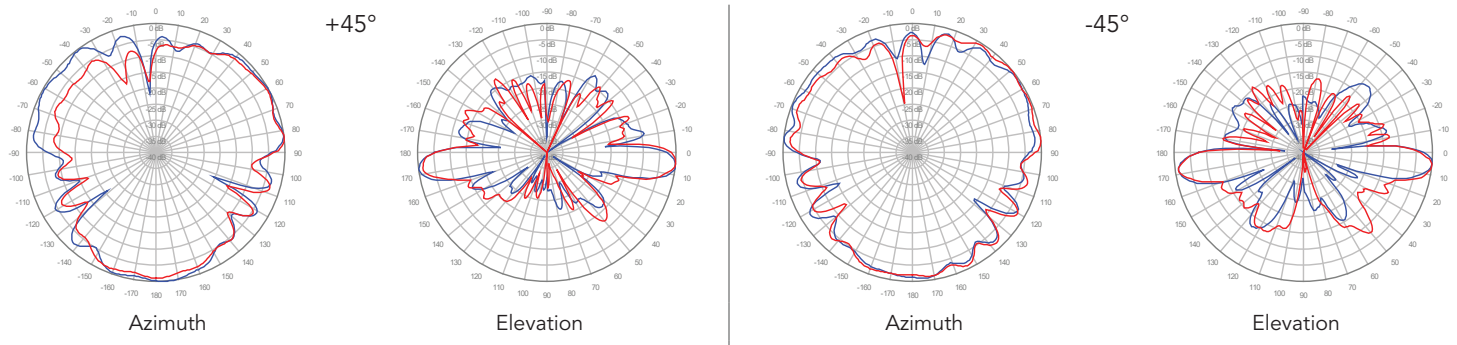
■ P1, 6° TILT



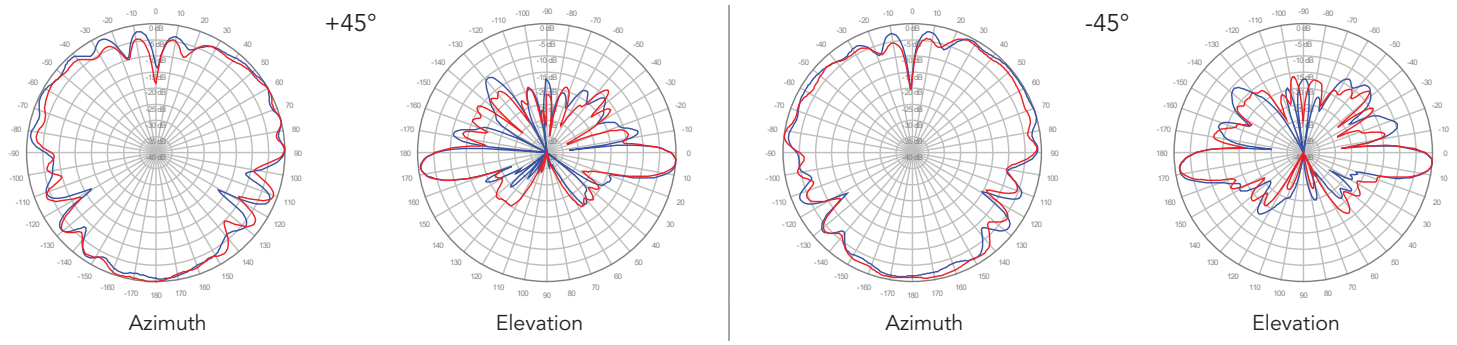
■ P2, 6° TILT



■ P3, 6° TILT



■ P4, 6° TILT



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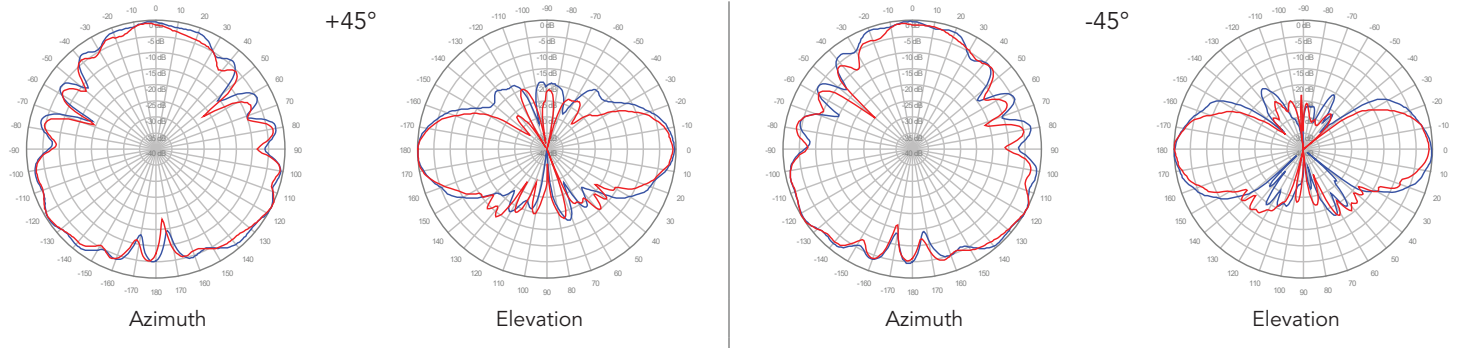
24.0 IN

FIXED TILT

4U6VT360X06F<sub>xy</sub>s4

3600 MHz ————  
4000 MHz ————

**P5, 2° TILT**



**P6, 2° TILT**

