

4U4VT360X06F_{xy}s4

Features

- Pseudo omni configuration with 16 connectors
- Ideal for multi-carrier or 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
	Array	■ Y1, ■ Y2, ■ Y3, ■ Y4	■ P1, ■ P2, ■ P3, ■ P4
	Connector	8 PORTS	8 PORTS
	Polarization	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°
	Electrical Downtilt	0°, 2°, 4°, 6°	0°, 2°, 4°, 6°
	Configuration	OMNI CONFIGURATION	
	Maximum Continuous Power Per Port @ 50° C (122° F)	300 WATTS	100 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	3200 WATTS	
	Connector Type	(16x) 4.3-10 FEMALE	
	Dimensions	608 x Ø371 mm (23.9 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	9.5 ± 0.6	9.5 ± 0.4	9.4 ± 0.5	9.8 ± 0.6
	MAX	dBi	10.1	9.9	9.9	10.4
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	20.5° ± 1.8°	19.2° ± 1.0°	18.3° ± 1.6°	14.8° ± 1.8°
Electrical Downtilt		degrees	(x) 0°, 2°, 4°, 6°, refer to Ordering Options for available tilt combinations			
Impedance		Ohms	50Ω			
VSWR		---	≤ 1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153			
Upper Sidelobe Suppression		dB	> 17.5	> 17	> 15.4	> 10.5
Isolation	Intraband	dB	> 24			
	Interband	dB	> 28 same band; > 30 different bands			

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ELECTRICAL SPECIFICATIONS

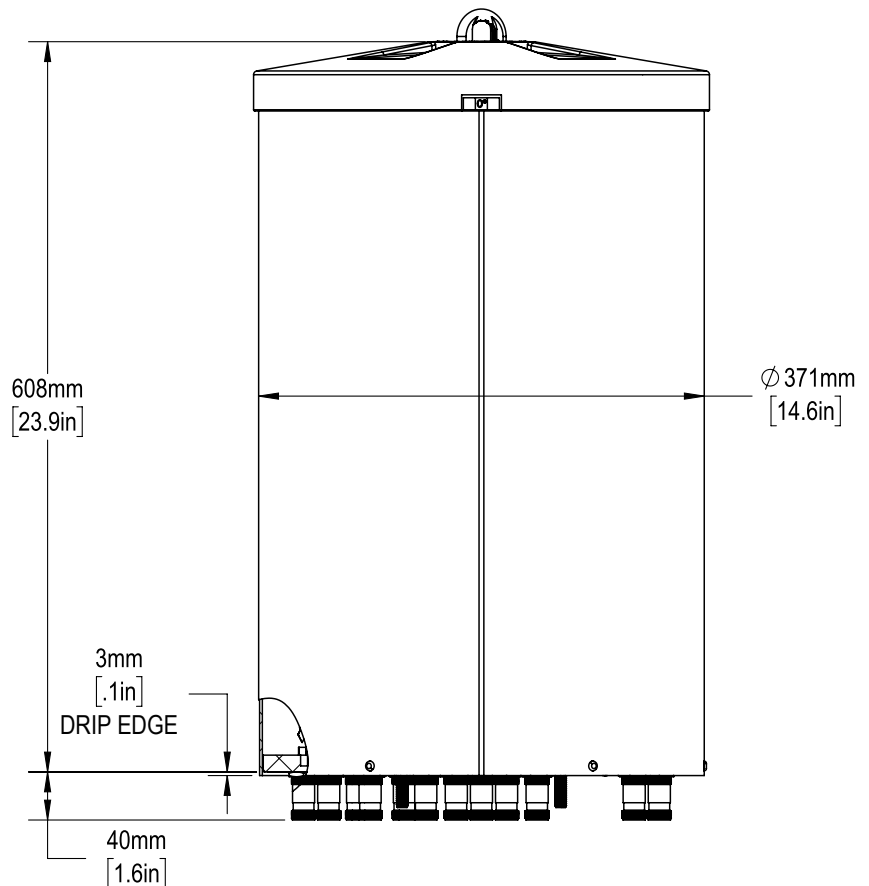
■ P1 ■ P2 ■ P3 ■ P4

Frequency Range		MHz	(4x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(4x) $\pm 45^\circ$		
Gain	BASTA	dBi	10.5 ± 1.1	11.1 ± 0.9	11.9 ± 1.0
	MAX	dBi	11.6	12.0	12.9
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	$7.9^\circ \pm 0.6^\circ$	$7.7^\circ \pm 0.6^\circ$	$7.2^\circ \pm 0.5^\circ$
Electrical Downtilt		degrees	(y) 0°, 2°, 4°, 6°, refer to Ordering Options for available tilt combinations		
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	> 28 same band; > 30 different bands		

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MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	608 (23.9)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	13.2 (29)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	191 (43)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m ² (ft ²)	0.22 (2.4)
Volume		m ³ (ft ³)	0.07 (2.3)
Connector	Type	---	(16x) 4.3-10 Female
	Position	---	Bottom
Radome Color		---	Grey (RAL 7035), Brown (RAL 8022), Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground

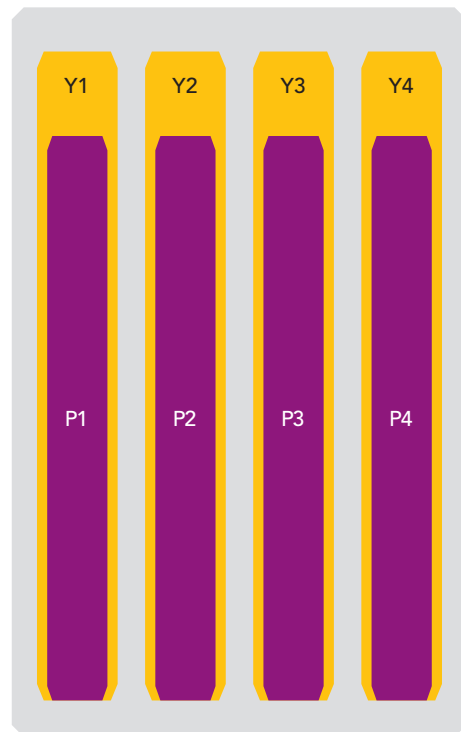


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ARRAY LAYOUT Topology

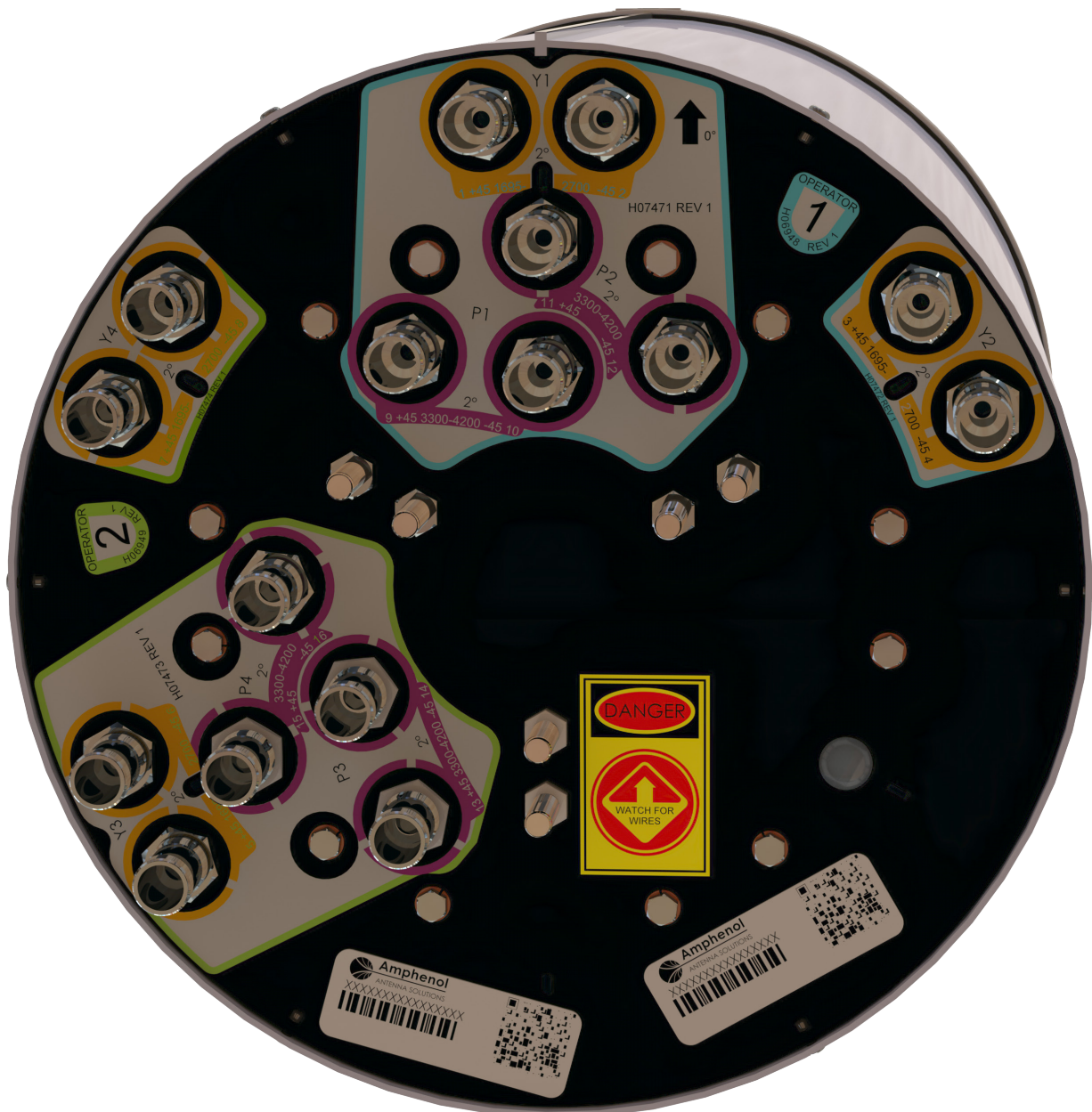
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
1695-2700 MHz	■ Y1	1-2	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	■ Y3	5-6	(2x) 4.3-10 Female
1695-2700 MHz	■ Y4	7-8	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	9-10	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	11-12	(2x) 4.3-10 Female
3300-4200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



The illustration is not shown to scale.

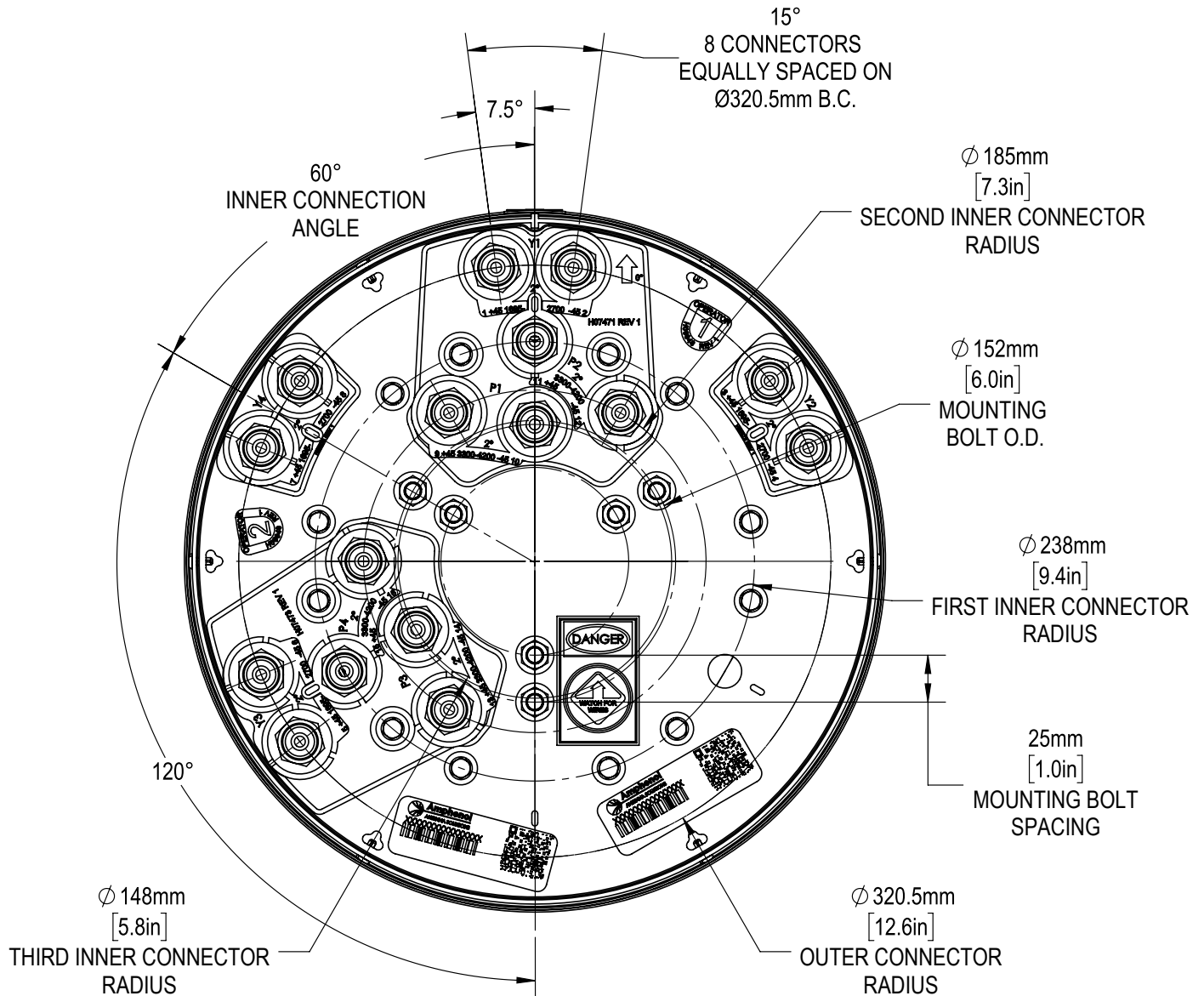
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BOTTOM VIEW - LABELING



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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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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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HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

NUMBER OF BANDS & OPERATING FREQUENCY		PATTERN TYPE	AZIMUTH BEAMWIDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
4U	4V	T	360	X	06	F	xy	s	4	BK BR
(4x) 1695-2700	(4x) 3300-4200	Tri-Sector	360°	XPOL	0.6 meters	Fixed Tilt	These letters are place-holders for fixed tilt options. Refer to Electrical Specifications for available tilt options.	4.3-10 Connector	4th 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.

ORDERING OPTIONS

Select from the following ordering options

SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND		MODEL NUMBER
	1695-2700 MHz	3300-4200 MHz	
Grey, RAL 7035	0°	0°	4U4VT360X06F00s4
	2°	2°	4U4VT360X06F22s4
	2°	4°	4U4VT360X06F24s4
	2°	6°	4U4VT360X06F26s4
	4°	2°	4U4VT360X06F42s4
	4°	4°	4U4VT360X06F44s4
	4°	6°	4U4VT360X06F46s4
	6°	2°	4U4VT360X06F62s4
	6°	4°	4U4VT360X06F64s4
	6°	6°	4U4VT360X06F66s4
	Y1 & Y2 = 6°, Y3 & Y4 = 2°	2°	4U4VT360X06FAAs4
	Y1 & Y2 = 4°, Y3 & Y4 = 2°	2°	4U4VT360X06FBBs4
	Y1 & Y2 = 6°, Y3 & Y4 = 4°	2°	4U4VT360X06FCCs4

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ORDERING OPTIONS Select from the following ordering options

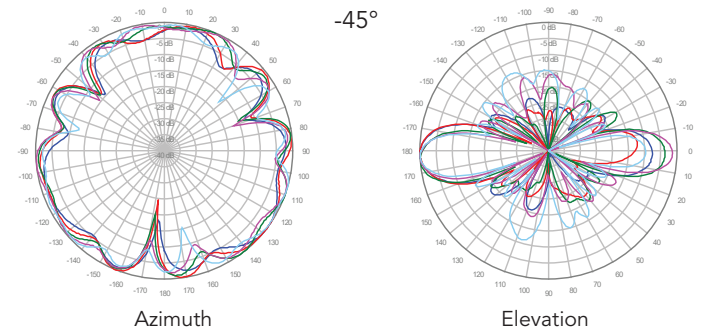
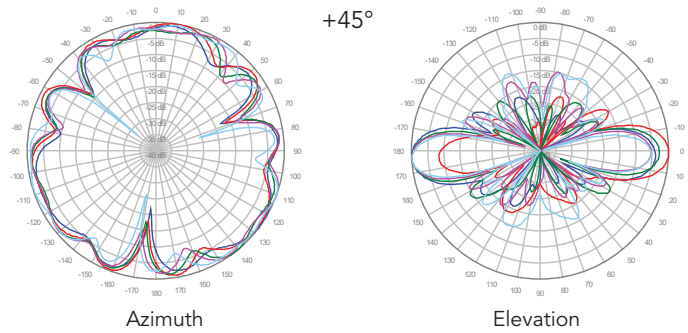
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND		MODEL NUMBER
	1695-2700 MHz	3300-4200 MHz	
Brown RAL 8022	0°	0°	4U4VT360X06F00s4BR
	2°	2°	4U4VT360X06F22s4BR
	2°	4°	4U4VT360X06F24s4BR
	2°	6°	4U4VT360X06F26s4BR
	4°	2°	4U4VT360X06F42s4BR
	4°	4°	4U4VT360X06F44s4BR
	4°	6°	4U4VT360X06F46s4BR
	6°	2°	4U4VT360X06F62s4BR
	6°	4°	4U4VT360X06F64s4BR
	6°	6°	4U4VT360X06F66s4BR
	Y1 & Y2 = 6°, Y3 & Y4 = 2°	2°	4U4VT360X06FAAs4BR
	Y1 & Y2 = 4°, Y3 & Y4 = 2°	2°	4U4VT360X06FBBs4BR
	Y1 & Y2 = 6°, Y3 & Y4 = 4°	2°	4U4VT360X06FCCs4BR
Black RAL 9011	0°	0°	4U4VT360X06F00s4BK
	2°	2°	4U4VT360X06F22s4BK
	2°	4°	4U4VT360X06F24s4BK
	2°	6°	4U4VT360X06F26s4BK
	4°	2°	4U4VT360X06F42s4BK
	4°	4°	4U4VT360X06F44s4BK
	4°	6°	4U4VT360X06F46s4BK
	6°	2°	4U4VT360X06F62s4BK
	6°	4°	4U4VT360X06F64s4BK
	6°	6°	4U4VT360X06F66s4BK
	Y1 & Y2 = 6°, Y3 & Y4 = 2°	2°	4U4VT360X06FAAs4BK
	Y1 & Y2 = 4°, Y3 & Y4 = 2°	2°	4U4VT360X06FBBs4BK
	Y1 & Y2 = 6°, Y3 & Y4 = 4°	2°	4U4VT360X06FCCs4BK

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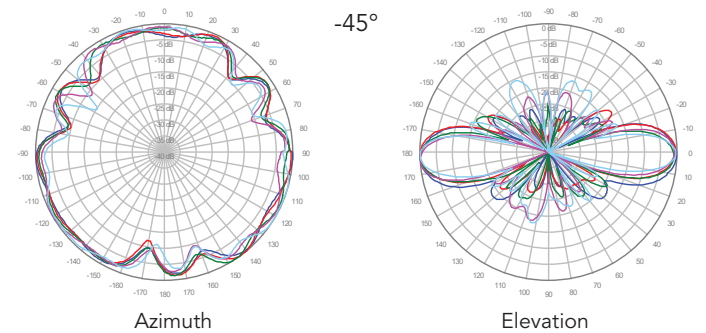
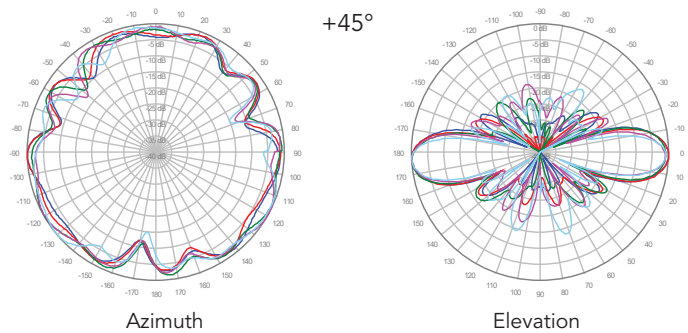
4U4VT360X06F_{xys}4

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

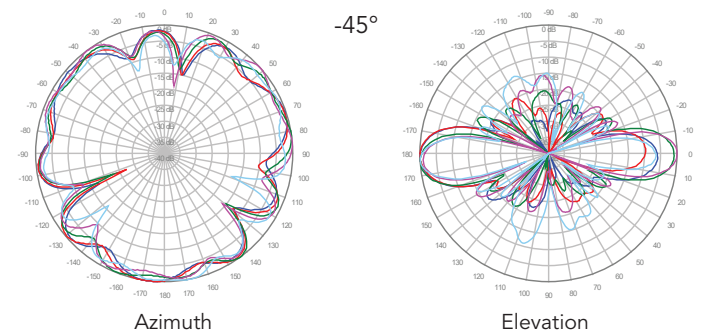
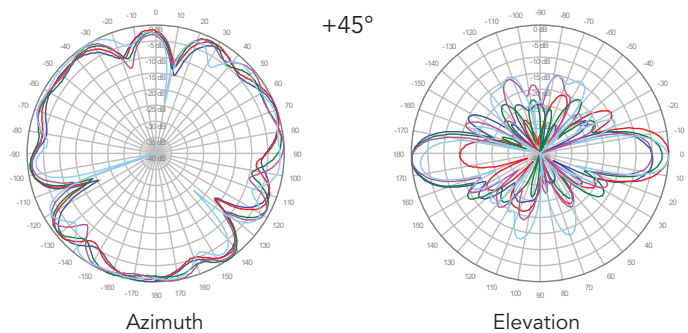
■ Y1, 2° TILT



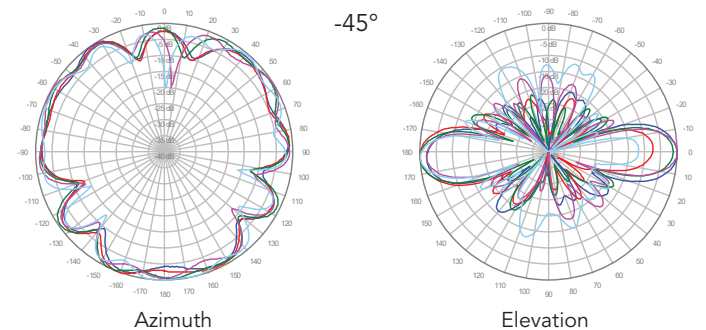
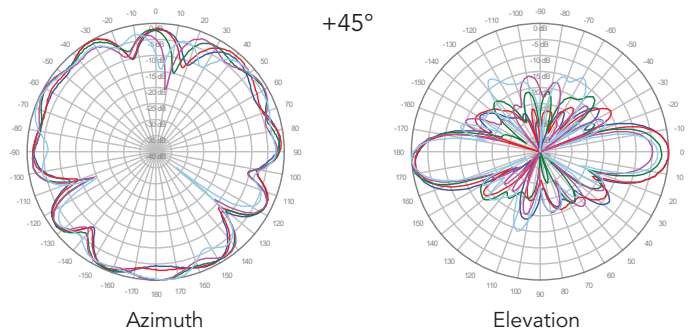
■ Y2, 2° TILT



■ Y3, 2° TILT



■ Y4, 2° TILT

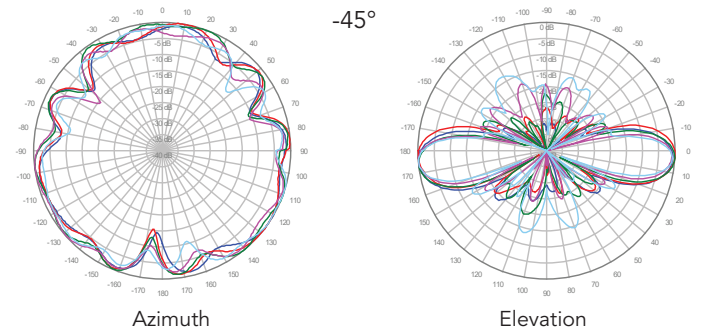
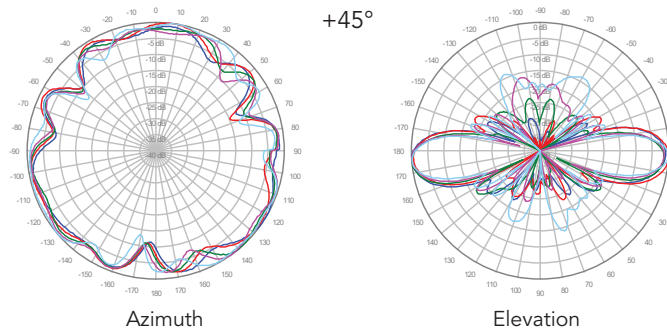


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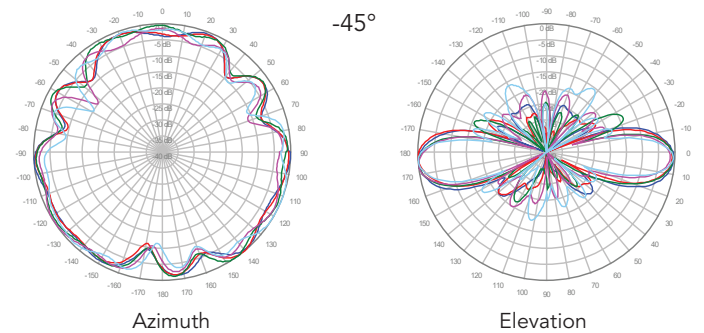
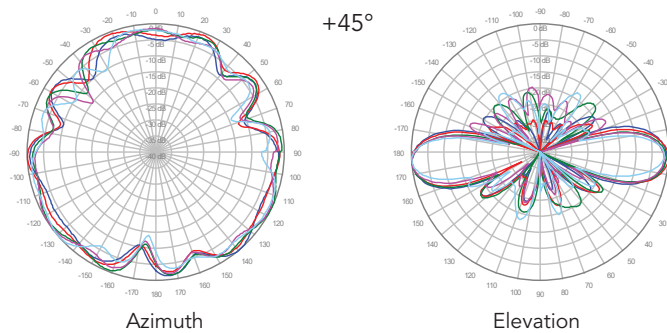
4U4VT360X06F_{xys}4

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

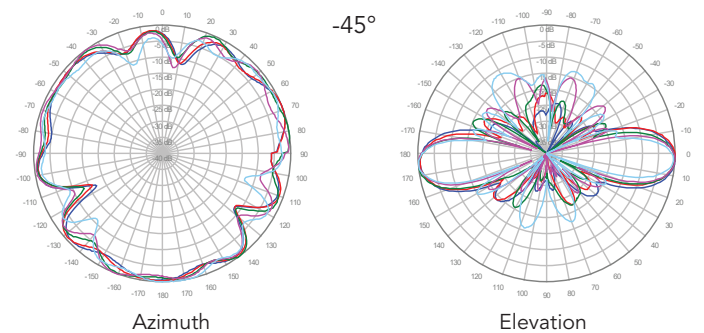
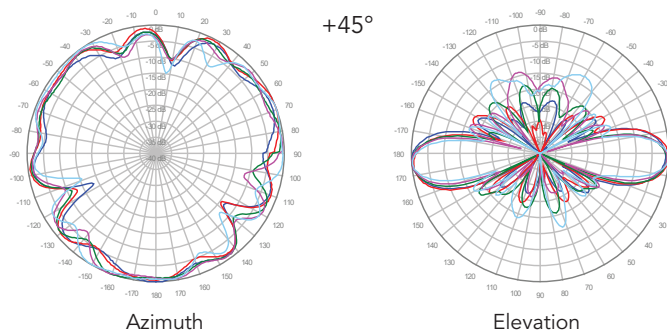
■ Y1, 4° TILT



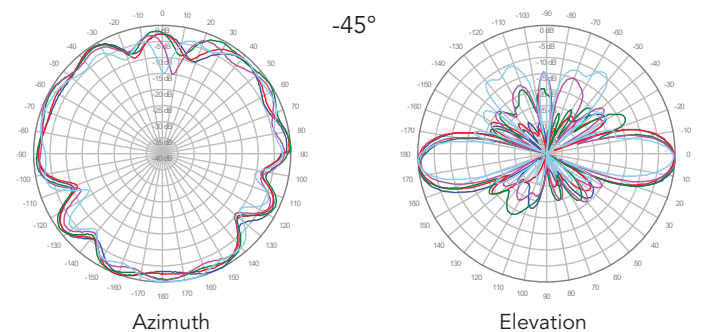
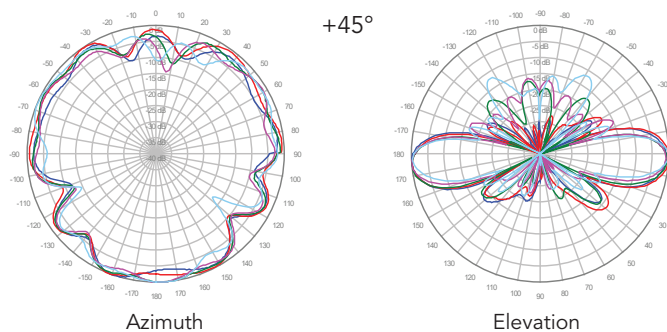
■ Y2, 4° TILT



■ Y3, 4° TILT



■ Y4, 4° TILT

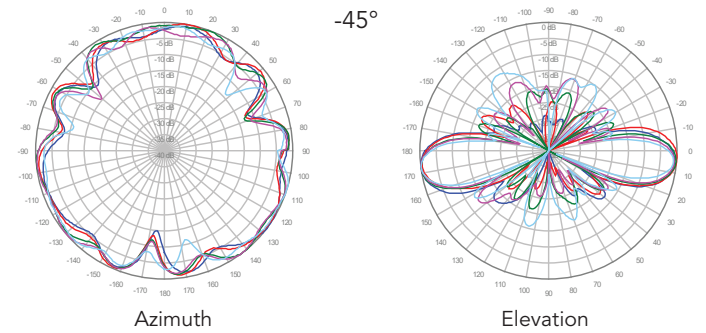
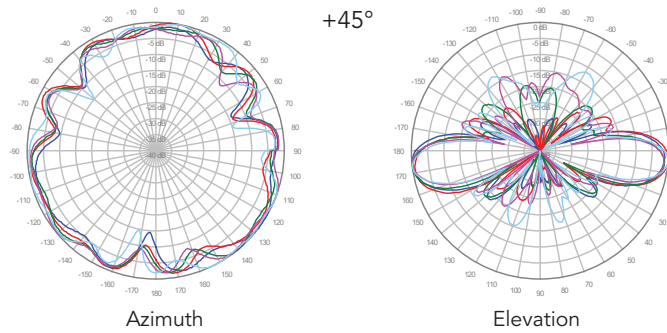


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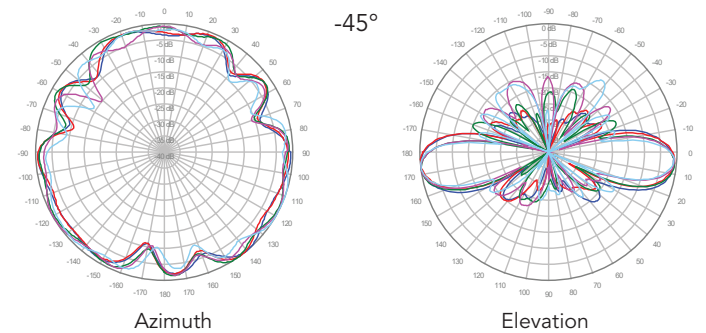
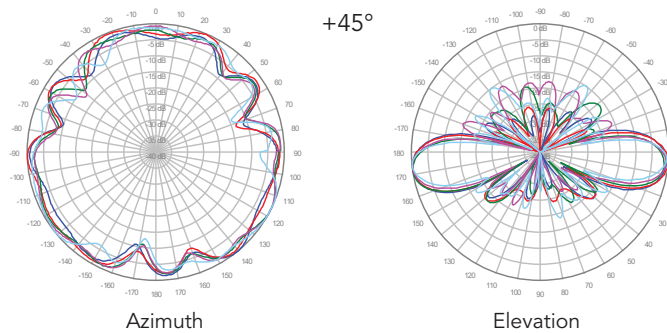
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1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
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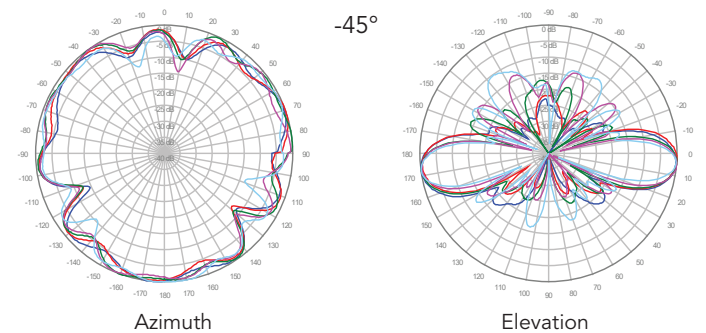
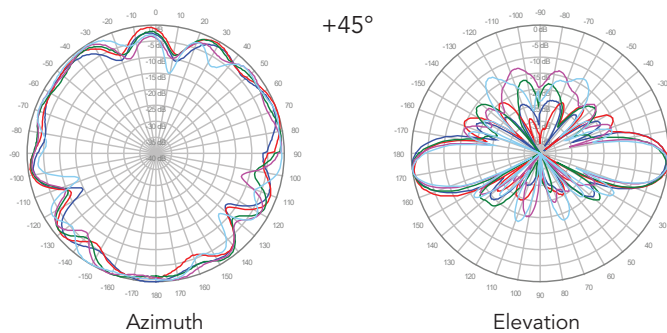
■ Y1, 6° TILT



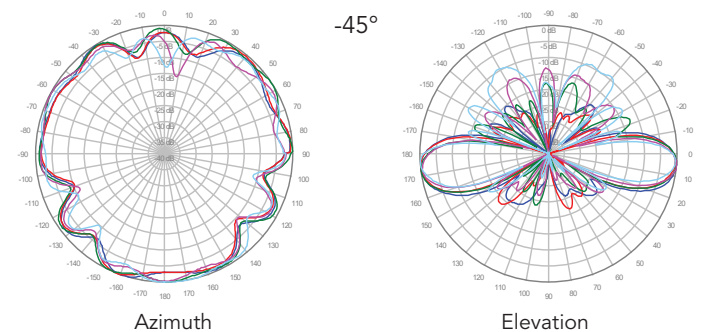
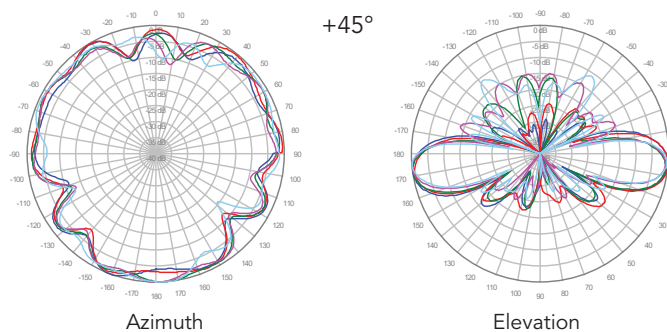
■ Y2, 6° TILT



■ Y3, 6° TILT



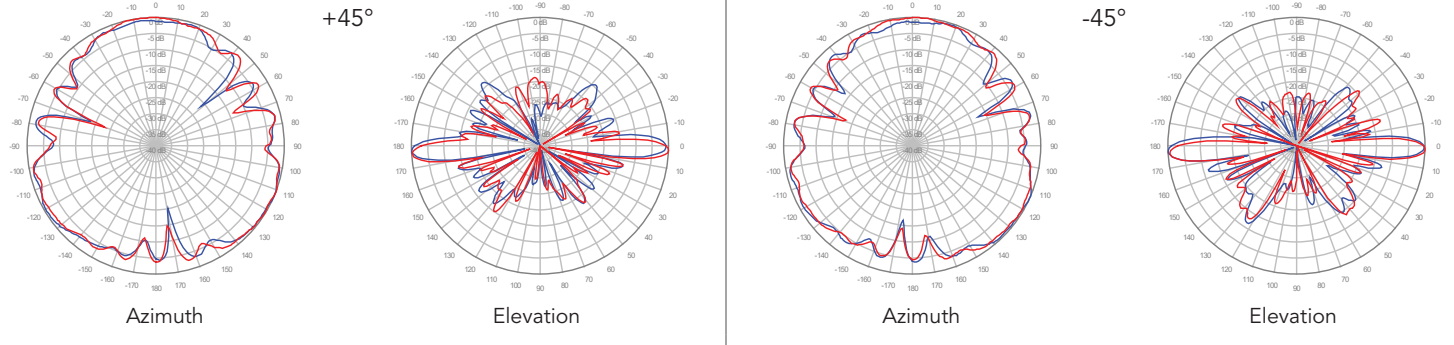
■ Y4, 6° TILT



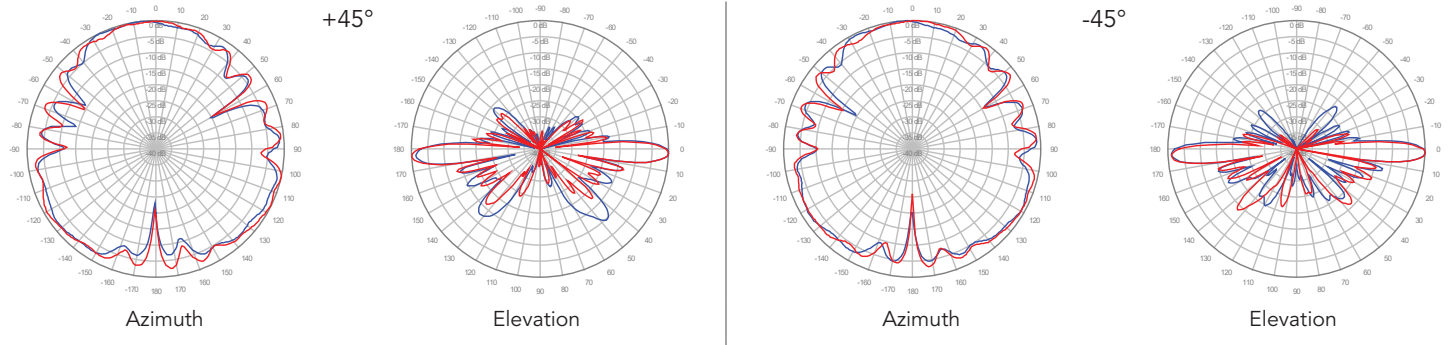
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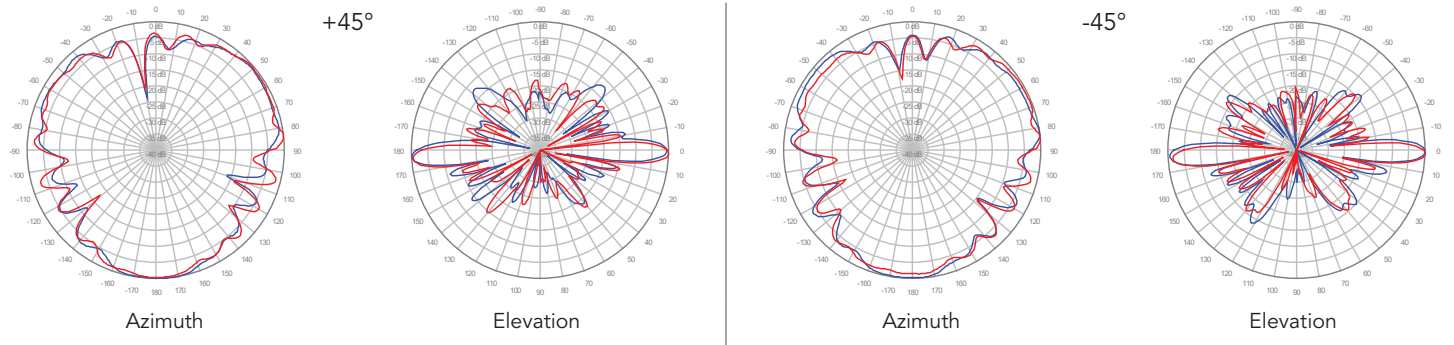
P1, 2° TILT



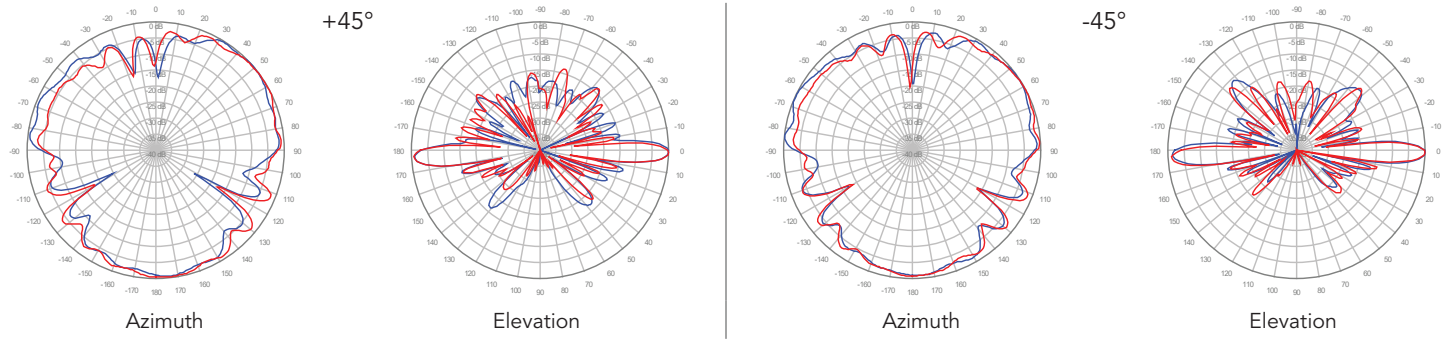
P2, 2° TILT



P3, 2° TILT



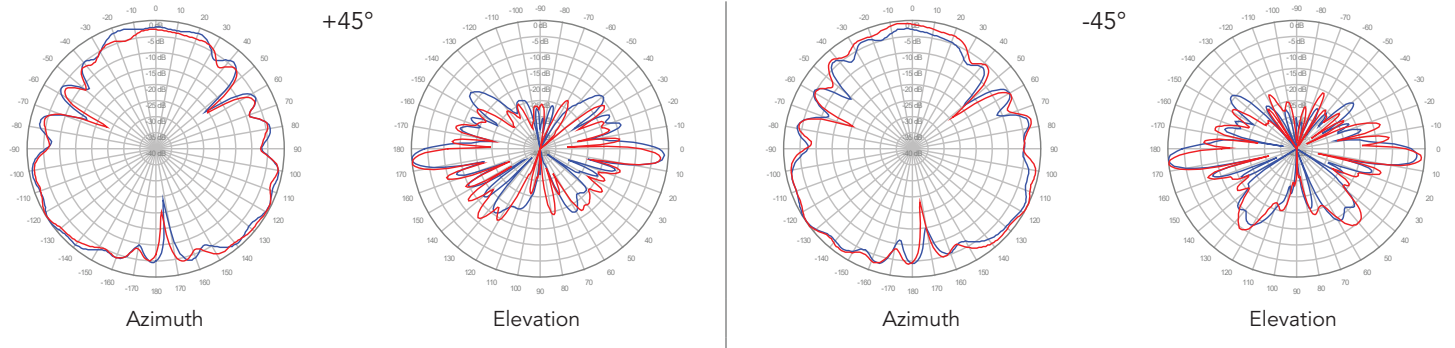
P4, 2° TILT



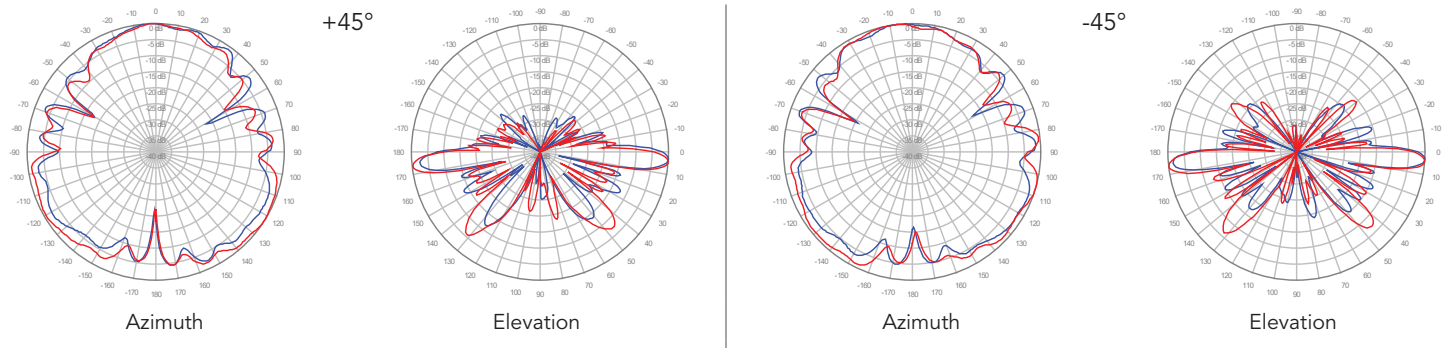
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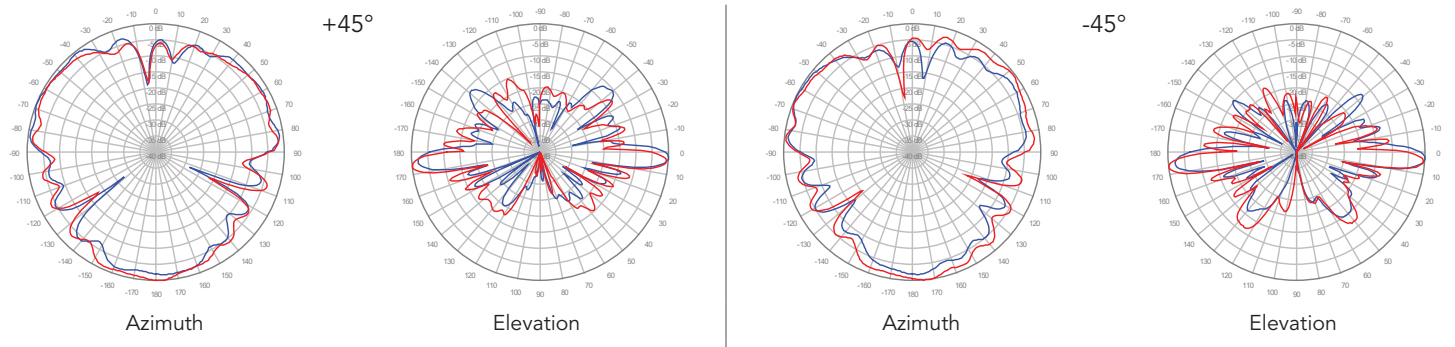
P1, 4° TILT



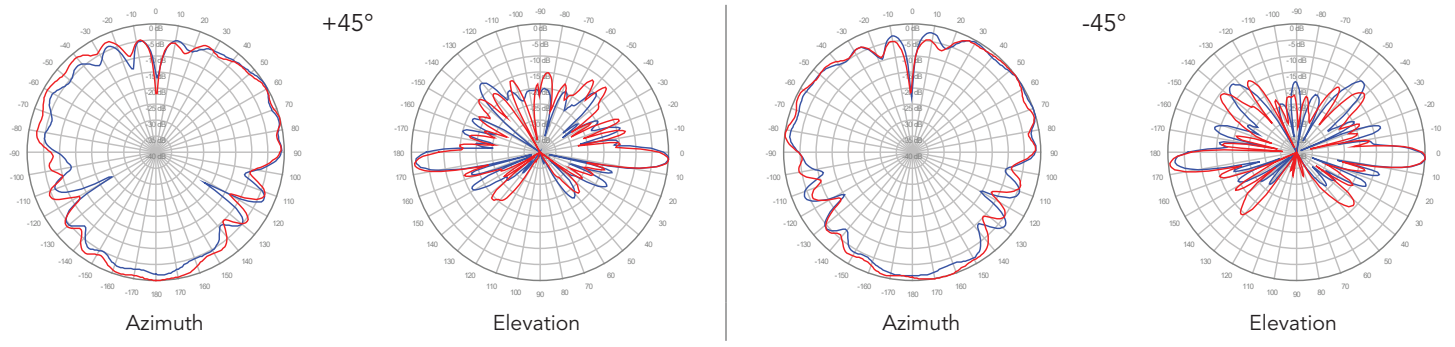
P2, 4° TILT



P3, 4° TILT



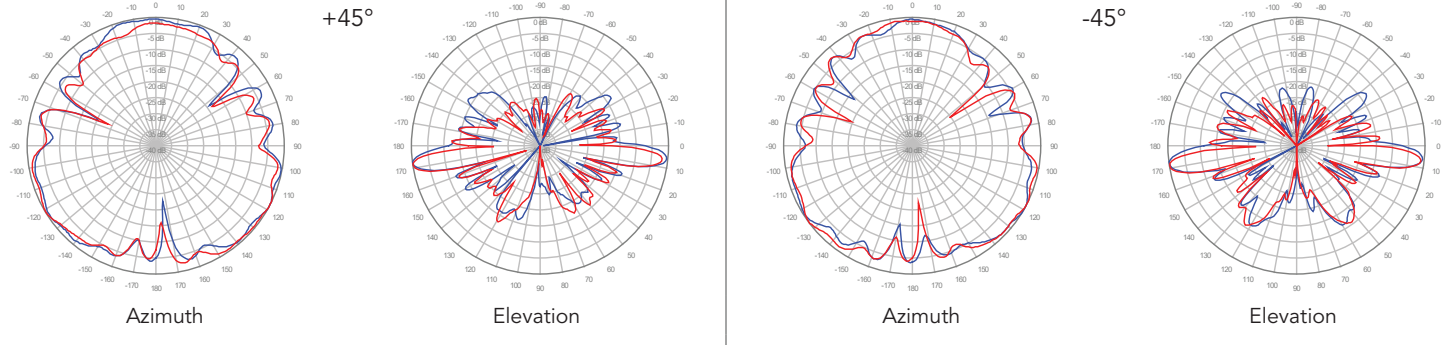
P4, 4° TILT



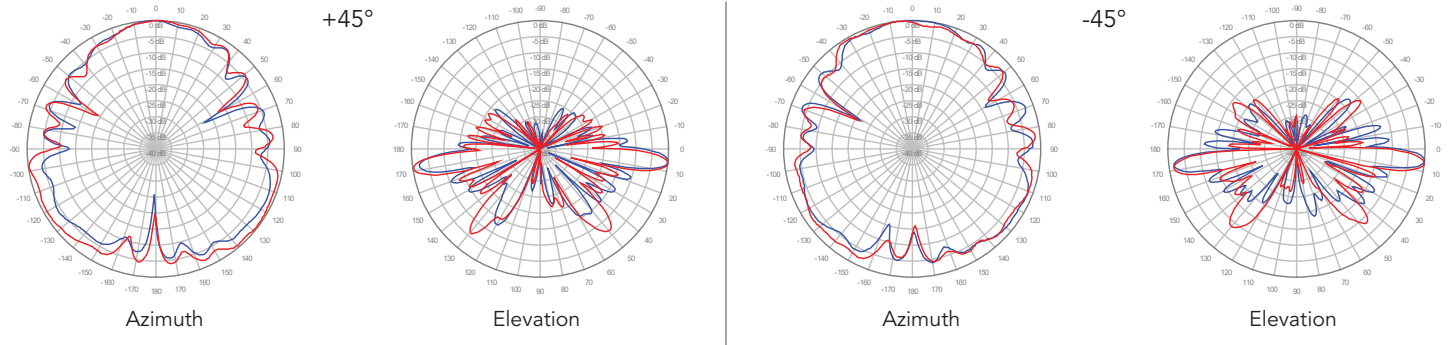
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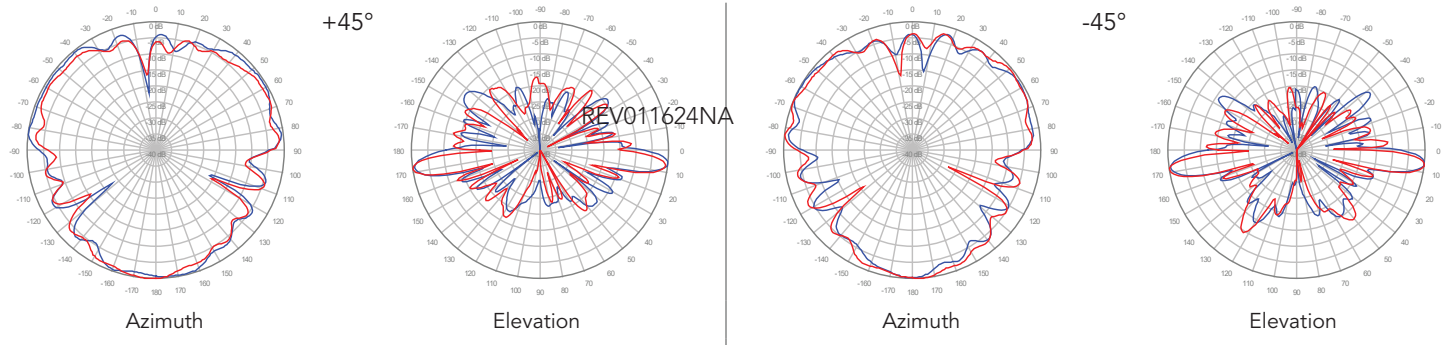
■ P1, 6° TILT



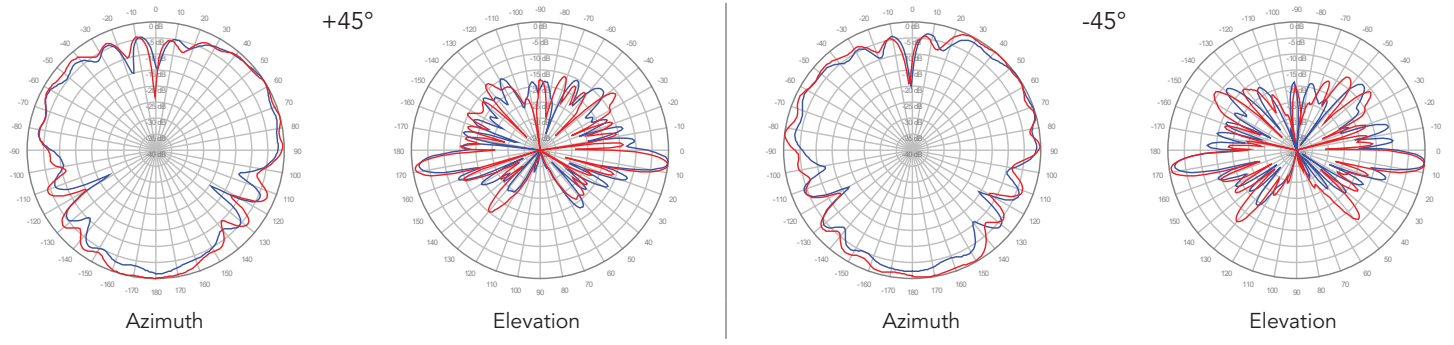
■ P2, 6° TILT



■ P3, 6° TILT



■ P4, 6° TILT



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