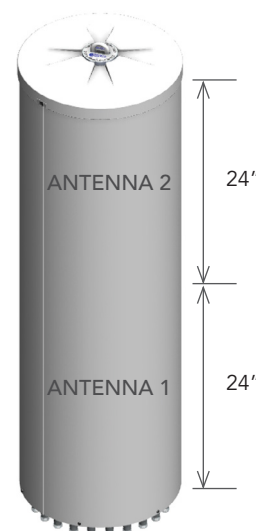


4L6U6VT360X12Fwxys5

Features

- Pseudo omni configuration with 32 connectors
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 617-906, 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) 617-906	(6x) 1695-2700	(6x) 3300-4200
	Array	<div>■ R1 ■ R2</div> <div>■ R3 ■ R4</div>	<div>■ Y1 ■ Y2 ■ Y3</div> <div>■ Y4 ■ Y5 ■ Y6</div>	<div>■ P1 ■ P2 ■ P3</div> <div>■ P4 ■ P5 ■ P6</div>
	Connector	8 PORTS	12 PORTS	12 PORTS
	Polarization	XPOL	XPOL	XPOL
	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 WATTS	300 WATTS	100 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	8800 WATTS		
	Connector Type	(32x) 4.3-10 FEMALE		
	Dimensions	1203 x Ø371 mm (47.4 x Ø14.6 in)		
	Radome Color Options	GREY, BROWN or BLACK		

ELECTRICAL SPECIFICATIONS

■ R1 ■ R2 ■ R3 ■ R4

Frequency Range		MHz	(4x) 617-906	
Frequency Sub-Range		MHz	617-806	806-906
Polarization		---	(4x) ±45°	
Gain	BASTA	dBi	4.8 ± 0.9	4.7 ± 1.1
	MAX	dBi	5.7	5.8
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	58.3° ± 16.3°	48.8° ± 14.1°
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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4L6U6VT360X12Fwxys5

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	7.6 ± 0.8	7.5 ± 0.7	7.4 ± 0.9
	MAX	dBi	8.4	8.2	8.3
Azimuth Beamwidth (3 dB)	degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)	degrees	$23.0^\circ \pm 3.2^\circ$	$20.8^\circ \pm 2.7^\circ$	$19.0^\circ \pm 3.5^\circ$	$16.9^\circ \pm 2.6^\circ$
Electrical Downtilt	degrees	(x) 2°, 4°, 6°			
Impedance	Ohms	50Ω			
VSWR	---	$\leq 1.5:1$			
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 band		

ELECTRICAL SPECIFICATIONS

P1 P2 P3 P4 P5 P6

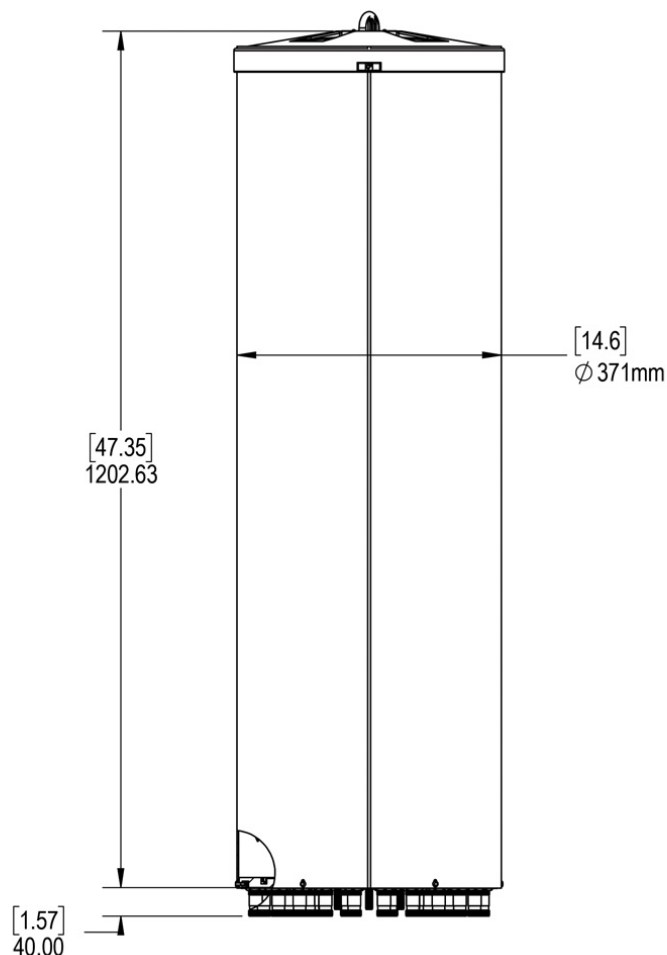
Frequency Range		MHz	(6x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(6x) ±45°		
Gain	BASTA	dBi	8.1 ± 1.0	8.7 ± 0.9	9.1 ± 0.8
	MAX	dBi	9.1	9.6	9.9
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	16.9° ± 1.6°	16.5° ± 1.7°	16.3° ± 2.1°
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 band		

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MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	1203 (47.4)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	20.9 (46.0)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	391 (88)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m ² (ft ²)	0.47 (5.0)
Volume	Total	m ³ (ft ³)	0.13 (4.7)
	Each Antenna	m ³ (ft ³)	0.065 (2.33)
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

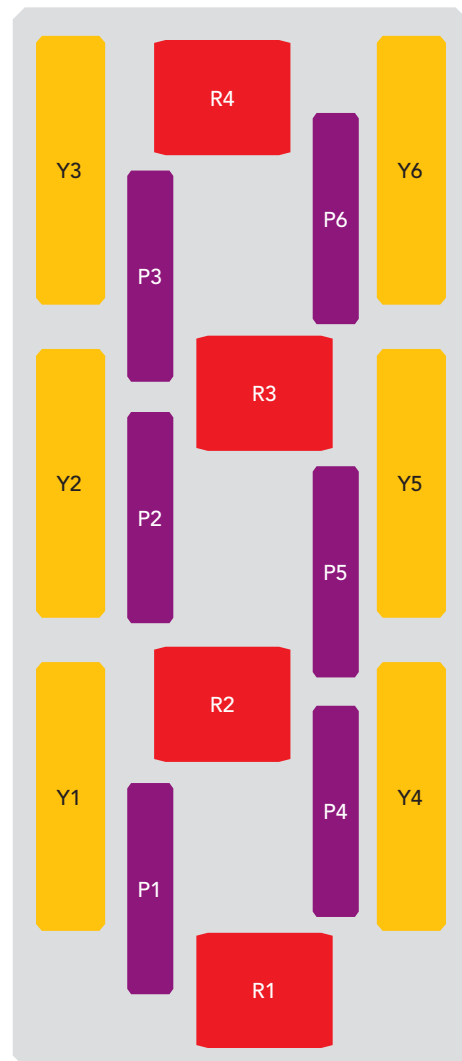


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4L6U6VT360X12Fwxys5

ARRAY LAYOUT Topology

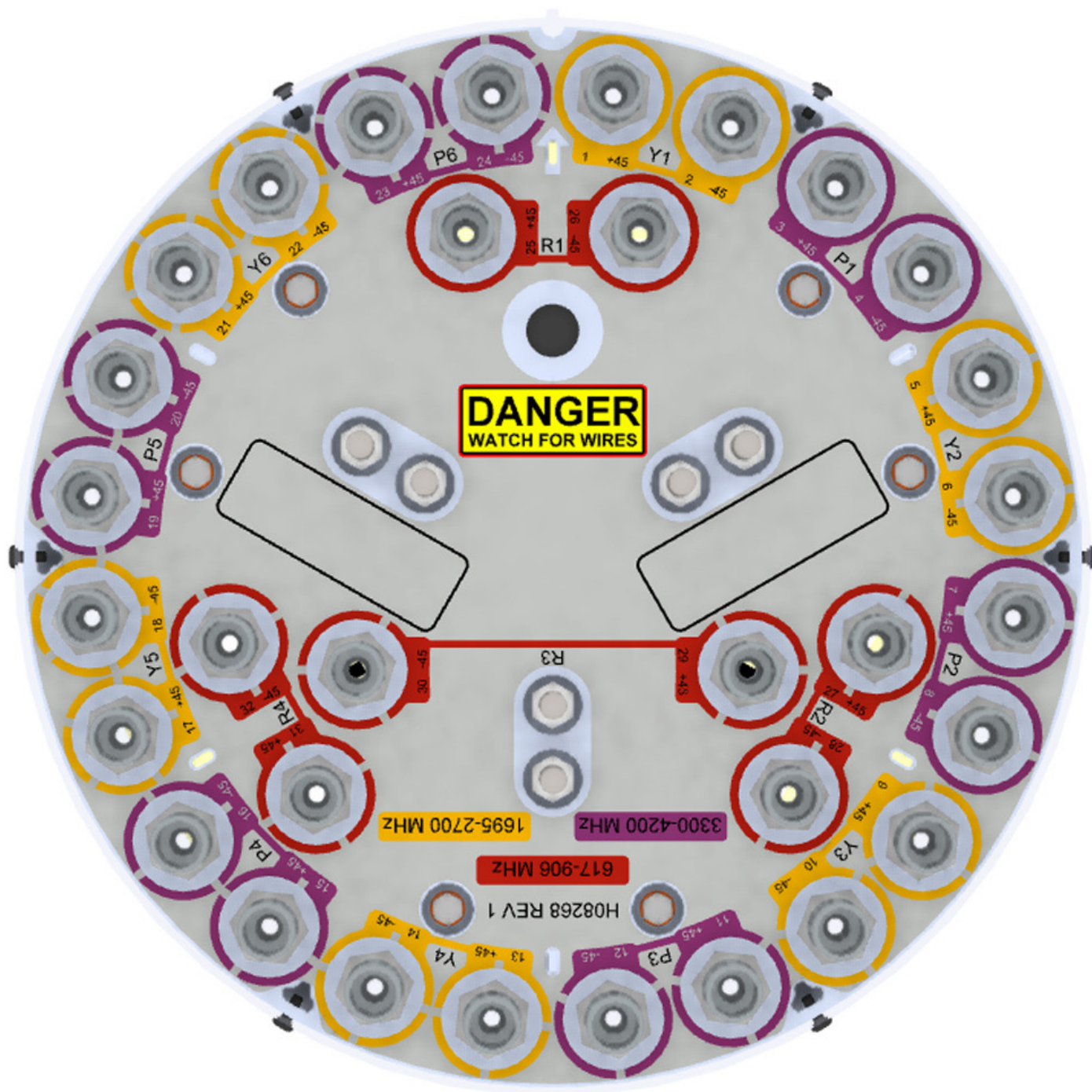
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
617-906 MHz	■ R1	25-26	(2x) 4.3-10 Female
617-906 MHz	■ R2	27-28	(2x) 4.3-10 Female
617-906 MHz	■ R3	29-30	(2x) 4.3-10 Female
617-906 MHz	■ R4	31-32	(2x) 4.3-10 Female
1695-2700 MHz	■ Y1	1-2	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	5-6	(2x) 4.3-10 Female
1695-2700 MHz	■ Y3	9-10	(2x) 4.3-10 Female
1695-2700 MHz	■ Y4	13-14	(2x) 4.3-10 Female
1695-2700 MHz	■ Y5	17-18	(2x) 4.3-10 Female
1695-2700 MHz	■ Y6	21-22	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	3-4	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	7-8	(2x) 4.3-10 Female
3300-4200 MHz	■ P3	11-12	(2x) 4.3-10 Female
3300-4200 MHz	■ P4	15-16	(2x) 4.3-10 Female
3300-4200 MHz	■ P5	19-20	(2x) 4.3-10 Female
3300-4200 MHz	■ P6	23-24	(2x) 4.3-10 Female



The illustration is not shown to scale.

4L6U6VT360X12Fwxys5

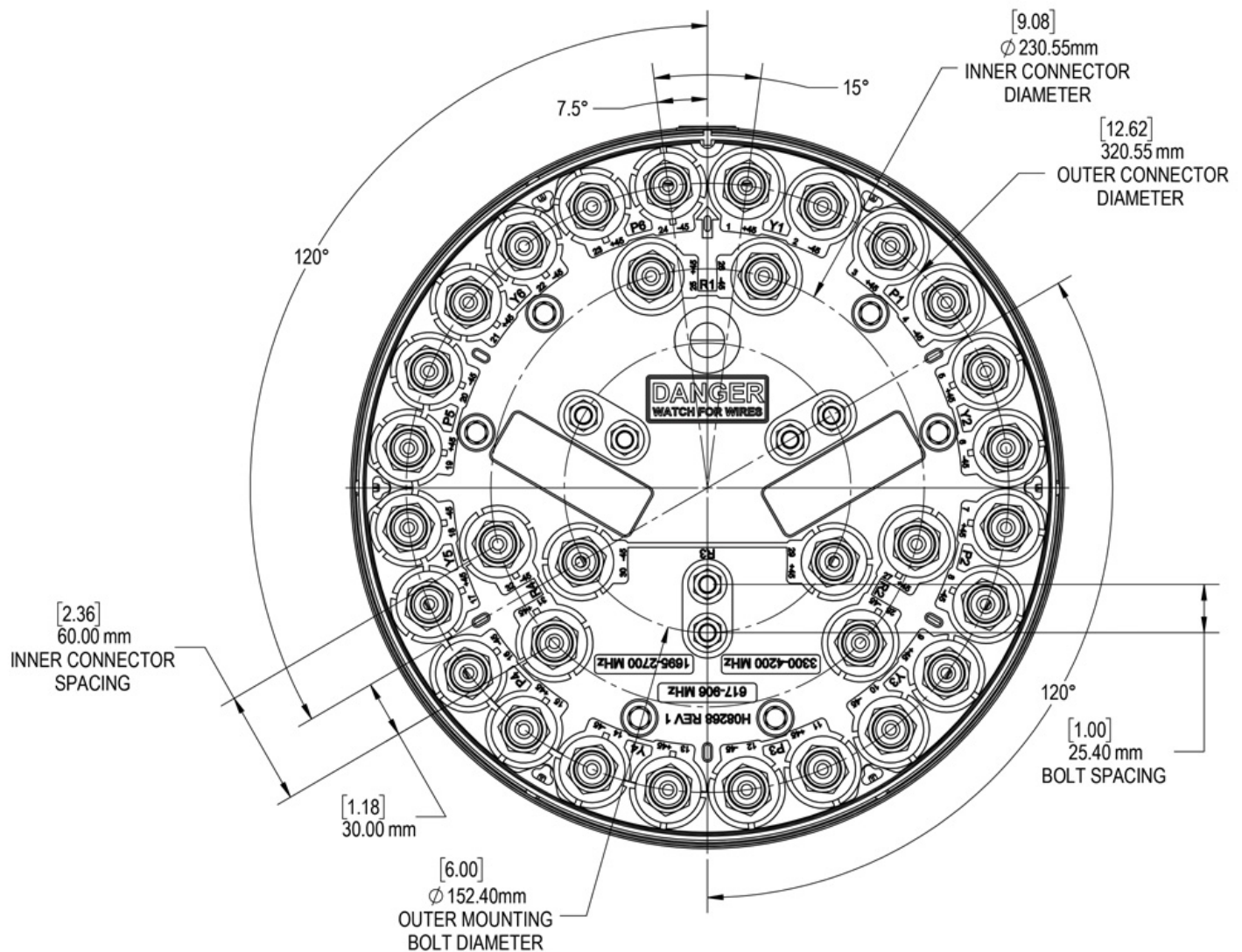
BOTTOM VIEW - LABELING



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4L6U6VT360X12Fwxys5

BOTTOM VIEW - CONNECTOR DIAGRAM



4L6U6VT360X12Fwxys5

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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4L6U6VT360X12Fwxy^s5

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
4L	6U	6V	T	360	X	12	F	wxy	s	5	BK BR
(4x) 617-906	(6x) 1695-2700	(6x) 3300-4200	Tri-Sector	360°	XPOL	1.2 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	<p>Variations of similar antennas may exist.</p> <p>Please refer to data sheets for specific differences.</p>	<p>BK indicates a Black radome.</p> <p>BR indicates a Brown radome.</p> <p>The default radome color is Grey.</p> <p>No letters are required for a Grey radome.</p>

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4L6U6VT360X12Fwxys5

ORDERING OPTIONS Select from the following ordering options

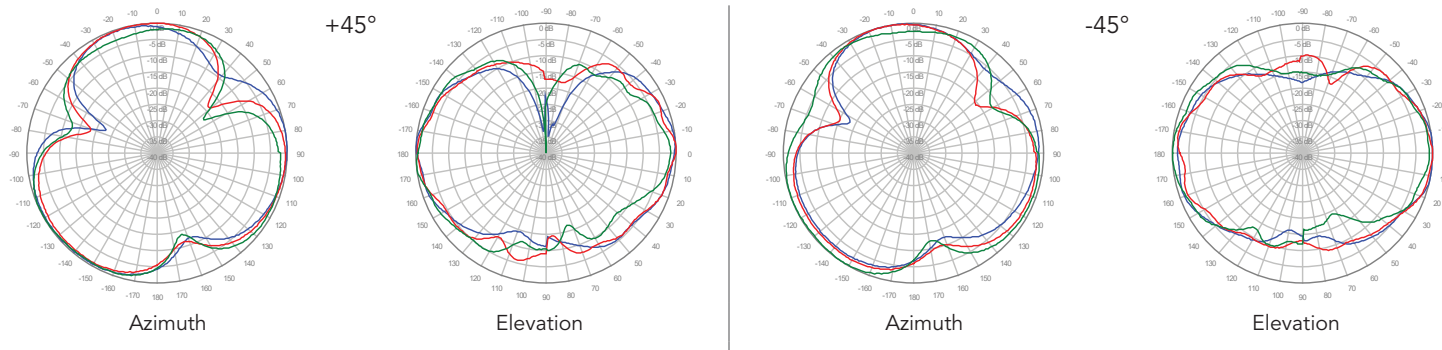
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ANTENNA MODEL
	617-906 MHz	1695-2700 MHz	3300-4200 MHz	
Grey Pantone 420 C	0°	2°	2°	4L6U6VT360X12F022s5
	0°	2°	4°	4L6U6VT360X12F024s5
	0°	2°	6°	4L6U6VT360X12F026s5
	0°	4°	2°	4L6U6VT360X12F042s5
	0°	4°	4°	4L6U6VT360X12F044s5
	0°	4°	6°	4L6U6VT360X12F046s5
	0°	6°	2°	4L6U6VT360X12F062s5
	0°	6°	4°	4L6U6VT360X12F064s5
	0°	6°	6°	4L6U6VT360X12F066s5
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	4L6U6VT360X12F0A2s5
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	4L6U6VT360X12F0B2s5
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	4L6U6VT360X12F0C2s5
Brown Pantone 476 C	0°	2°	2°	4L6U6VT360X12F022s5BR
	0°	2°	4°	4L6U6VT360X12F024s5BR
	0°	2°	6°	4L6U6VT360X12F026s5BR
	0°	4°	2°	4L6U6VT360X12F042s5BR
	0°	4°	4°	4L6U6VT360X12F044s5BR
	0°	4°	6°	4L6U6VT360X12F046s5BR
	0°	6°	2°	4L6U6VT360X12F062s5BR
	0°	6°	4°	4L6U6VT360X12F064s5BR
	0°	6°	6°	4L6U6VT360X12F066s5BR
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	4L6U6VT360X12F0A2s5BR
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	4L6U6VT360X12F0B2s5BR
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	4L6U6VT360X12F0C2s5BR
Black RAL 9011	0°	2°	2°	4L6U6VT360X12F022s5BK
	0°	2°	4°	4L6U6VT360X12F024s5BK
	0°	2°	6°	4L6U6VT360X12F026s5BK
	0°	4°	2°	4L6U6VT360X12F042s5BK
	0°	4°	4°	4L6U6VT360X12F044s5BK
	0°	4°	6°	4L6U6VT360X12F046s5BK
	0°	6°	2°	4L6U6VT360X12F062s5BK
	0°	6°	4°	4L6U6VT360X12F064s5BK
	0°	6°	6°	4L6U6VT360X12F066s5BK
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	4L6U6VT360X12F0A2s5BK
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	4L6U6VT360X12F0B2s5BK
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	4L6U6VT360X12F0C2s5BK

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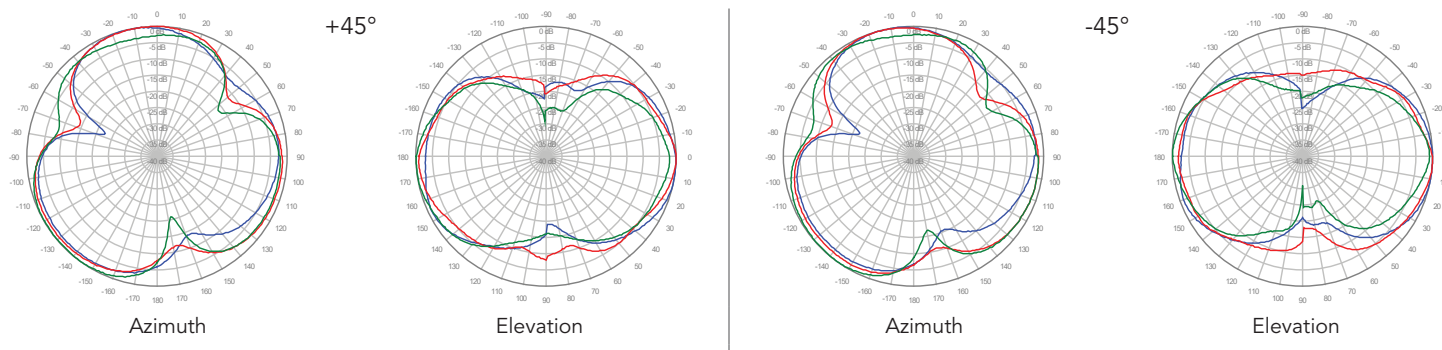
4L6U6VT360X12Fwxyys5

650 MHz ———
750 MHz ———
850 MHz ———

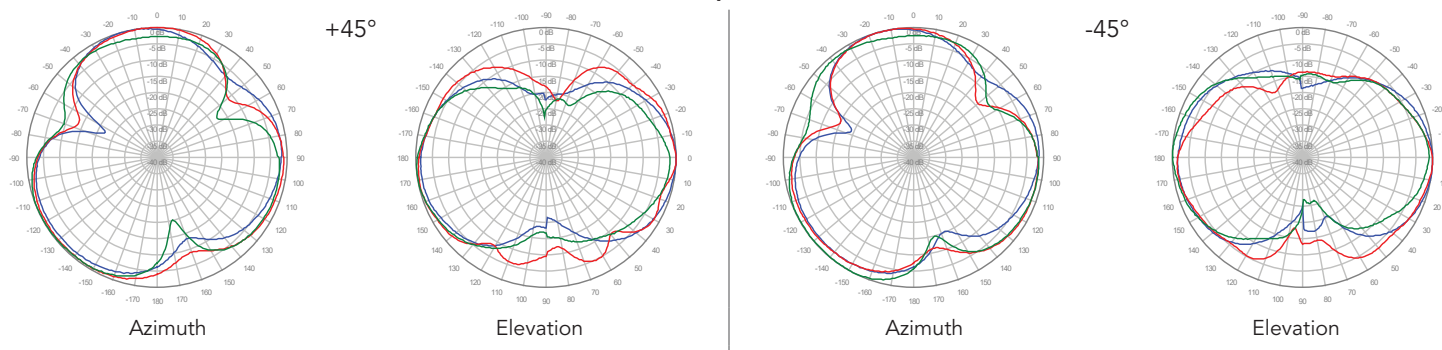
R1, 0° TILT



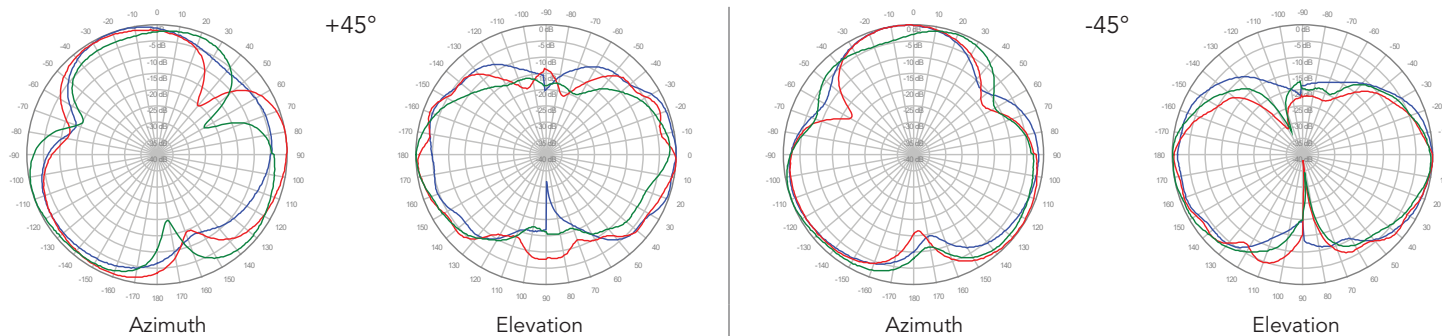
R2, 0° TILT



R3, 0° TILT



R4, 0° TILT

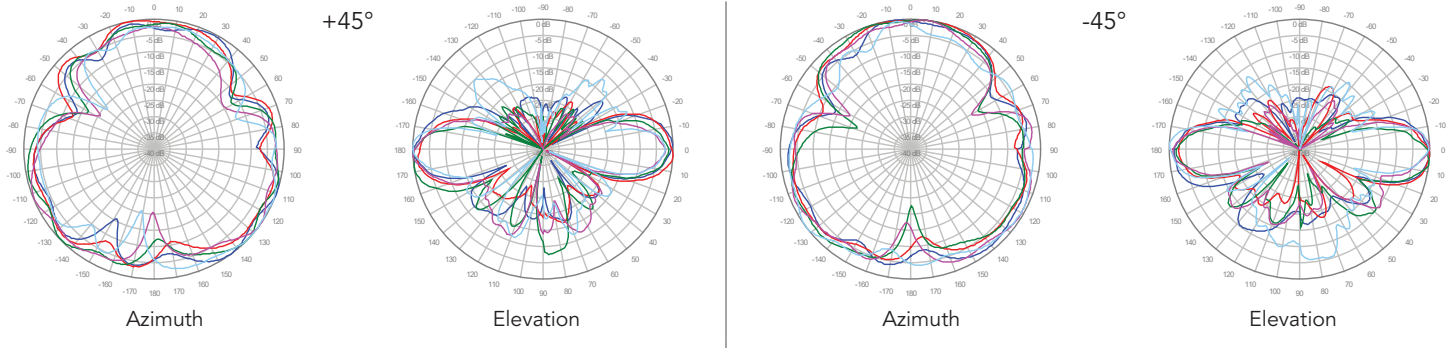


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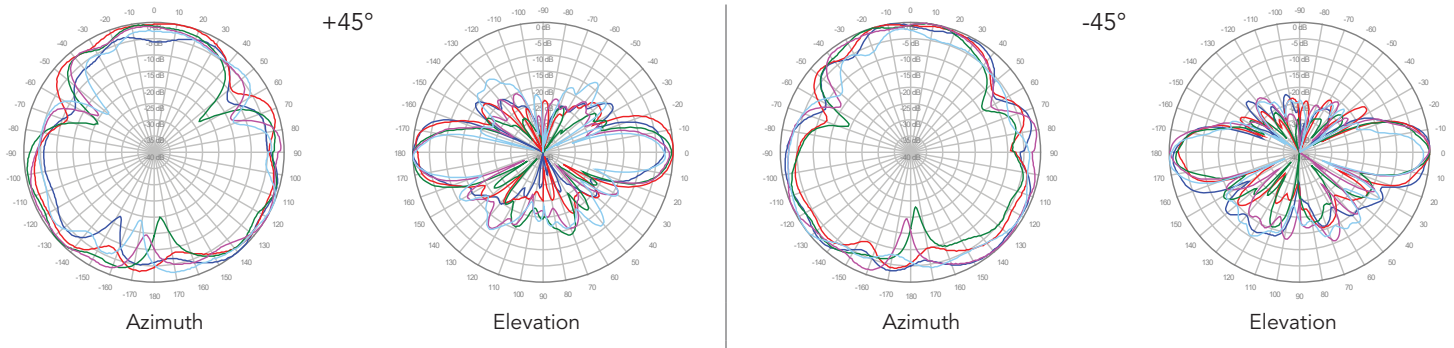
4L6U6VT360X12Fwxyys5

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

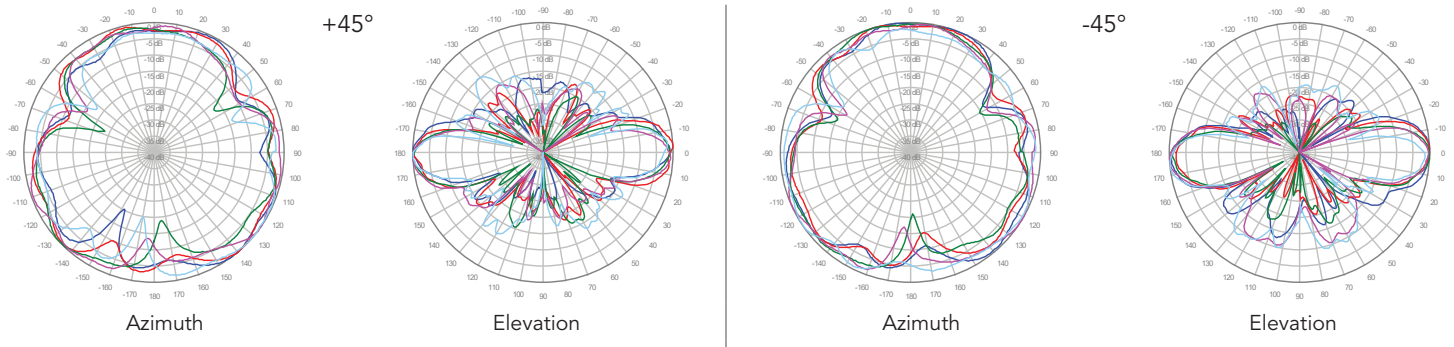
■ Y1, 2° TILT



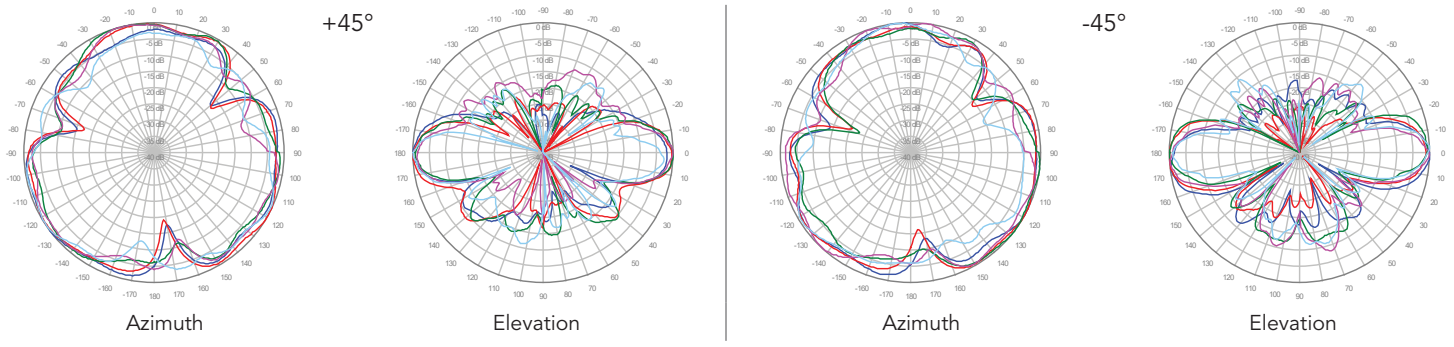
■ Y2, 2° TILT



■ Y3, 2° TILT



■ Y4, 2° TILT

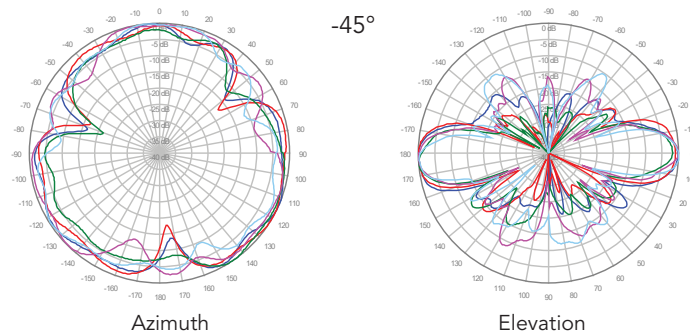
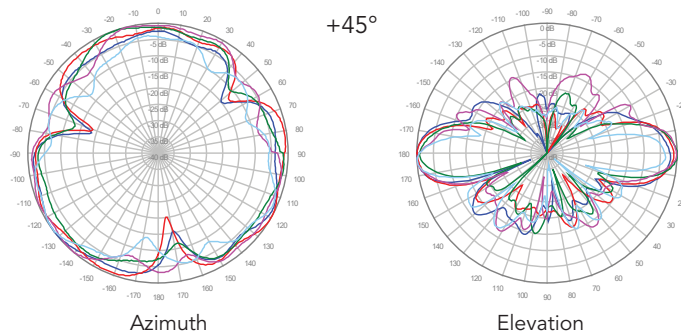


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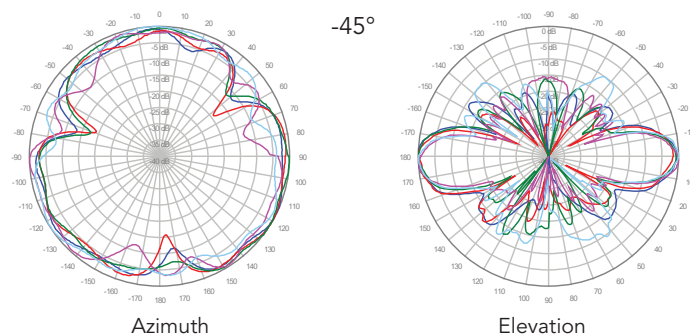
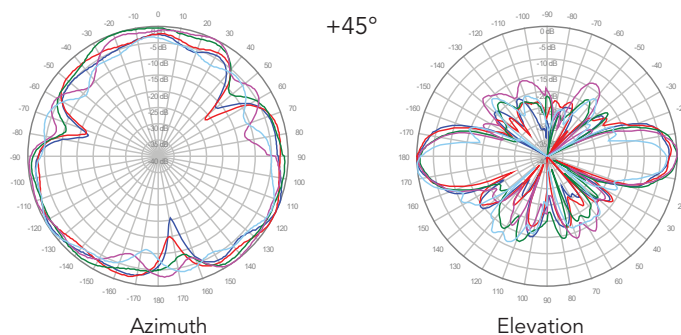
4L6U6VT360X12Fwxys5

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

Y5, 2° TILT



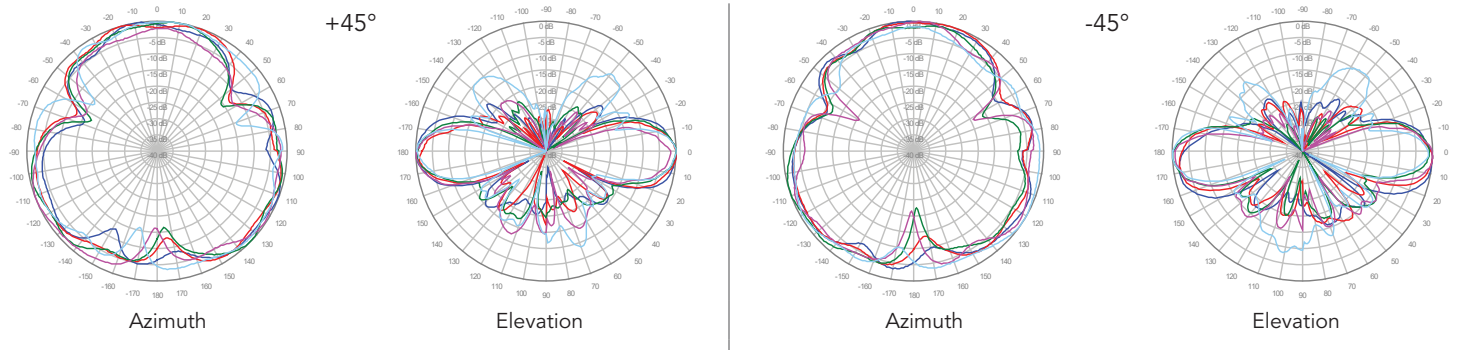
Y6, 2° TILT



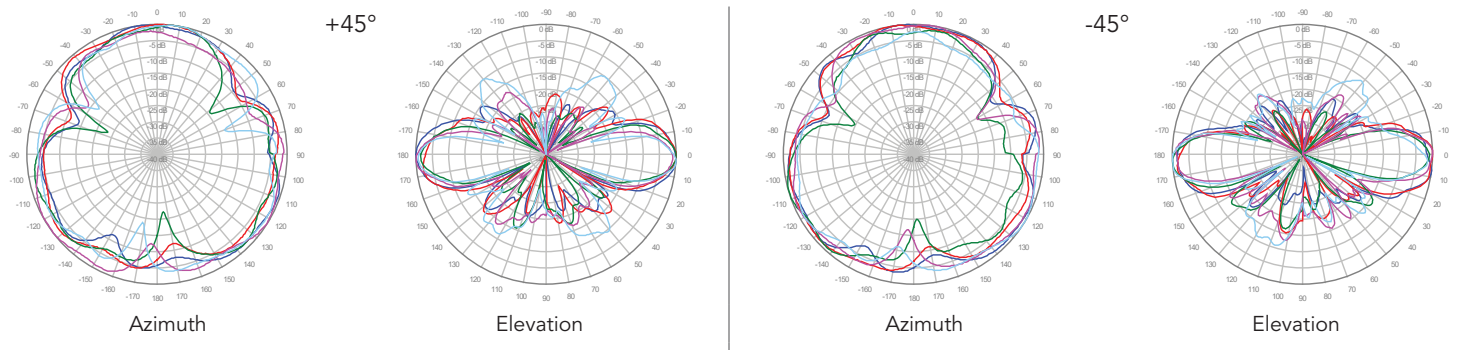
4L6U6VT360X12Fwxyys5

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

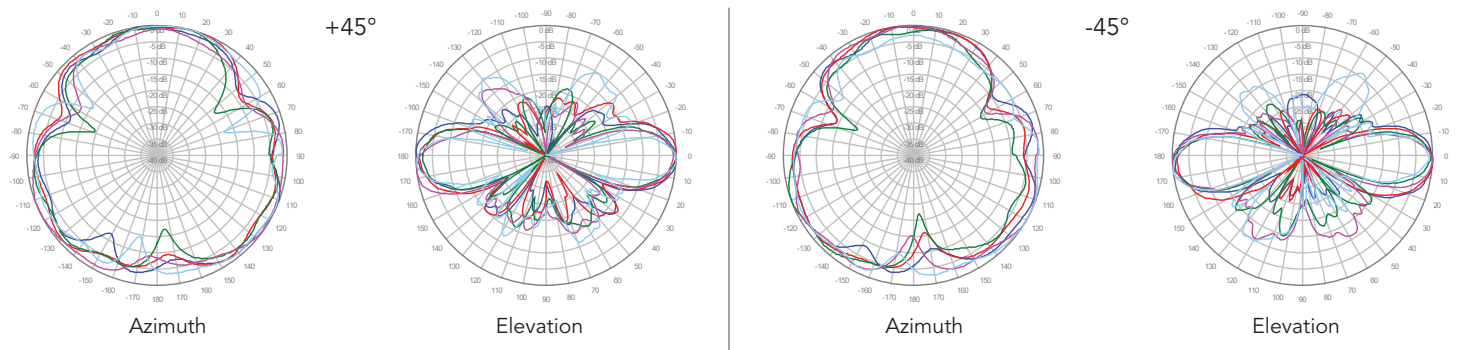
■ Y1, 4° TILT



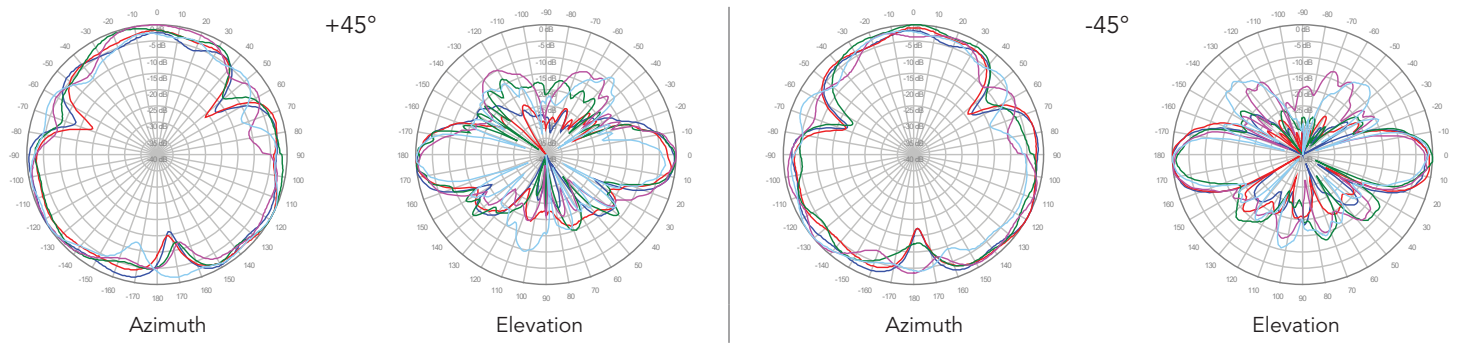
■ Y2, 4° TILT



■ Y3, 4° TILT



■ Y4, 4° TILT



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OMNI

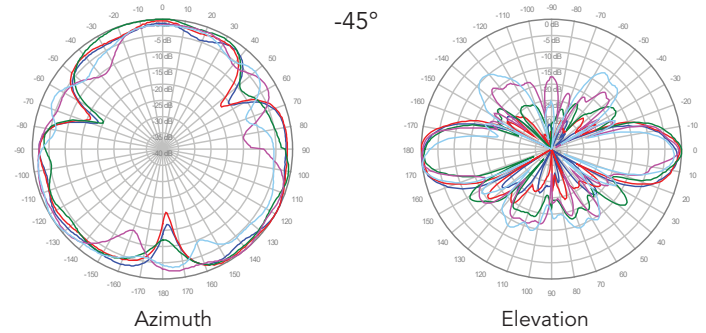
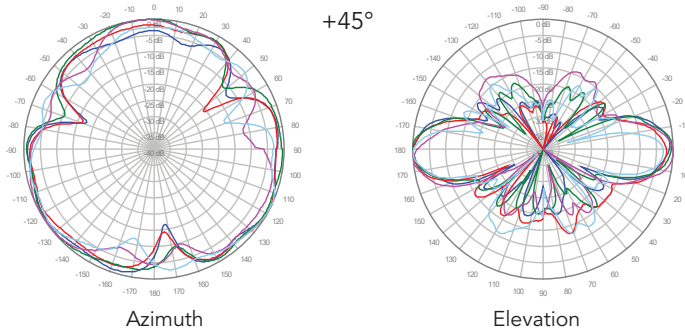
47.4 IN

FIXED TILT

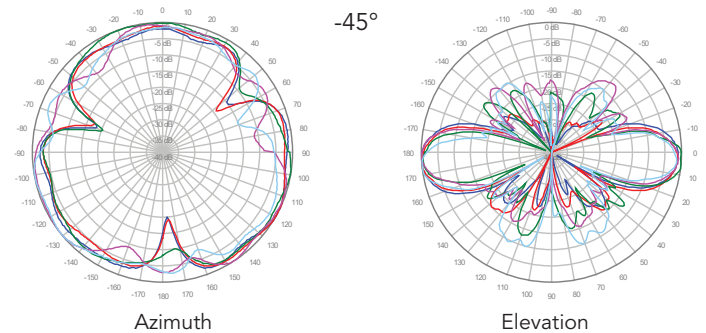
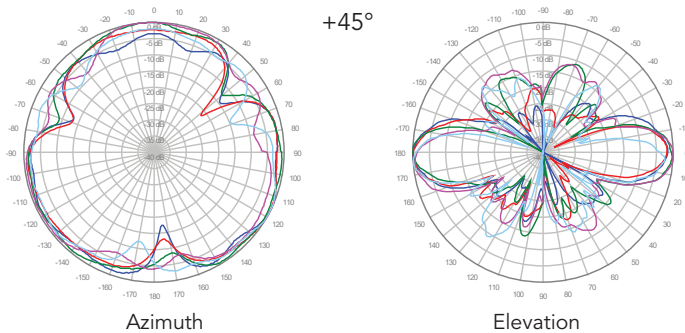
4L6U6VT360X12Fwxys5

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

■ **Y5, 4° TILT**



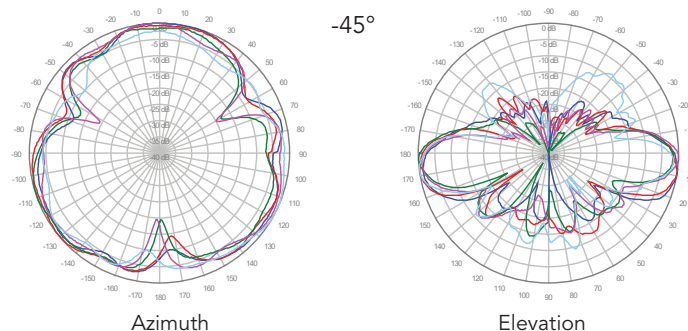
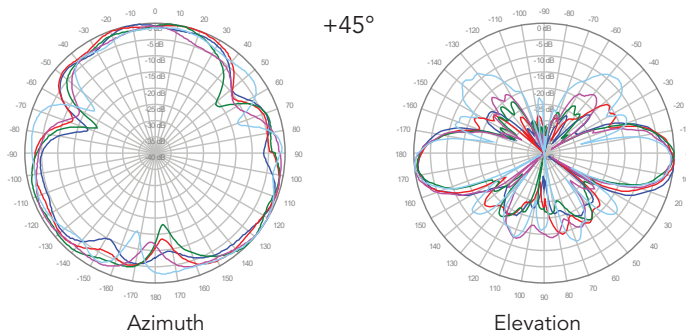
■ **Y6, 4° TILT**



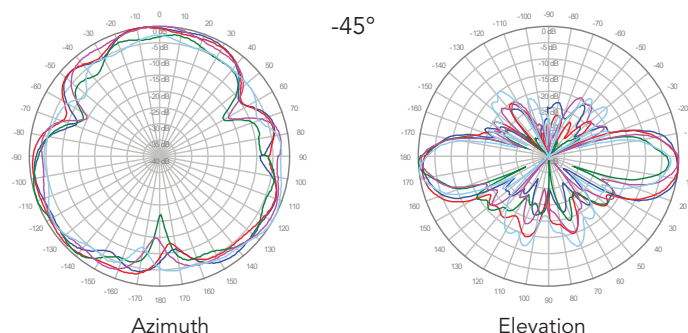
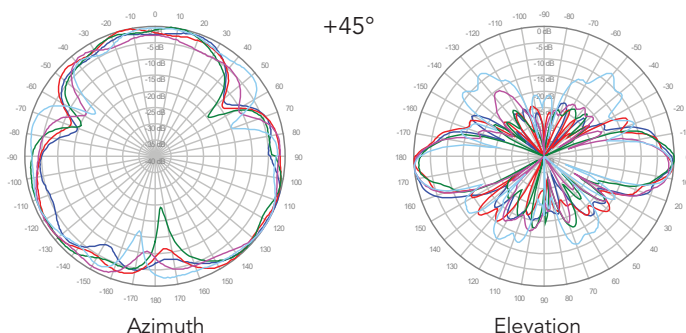
4L6U6VT360X12Fwxyys5

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

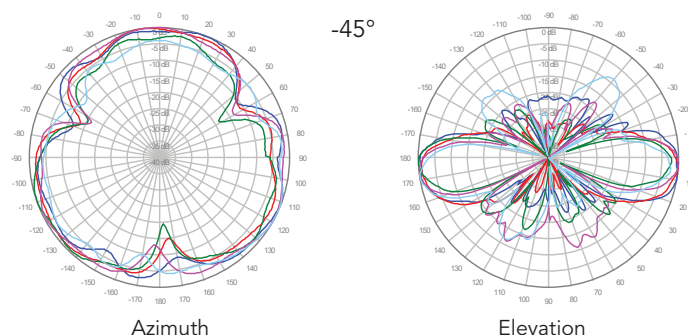
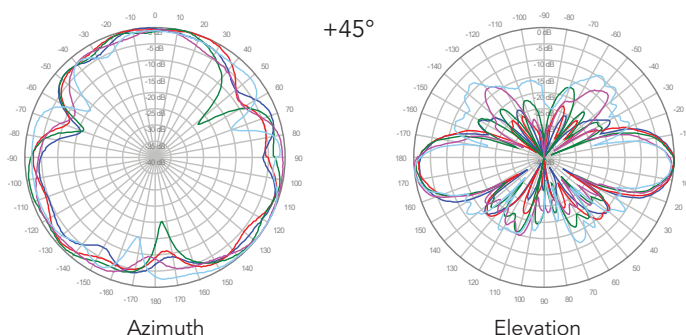
■ Y1, 6° TILT



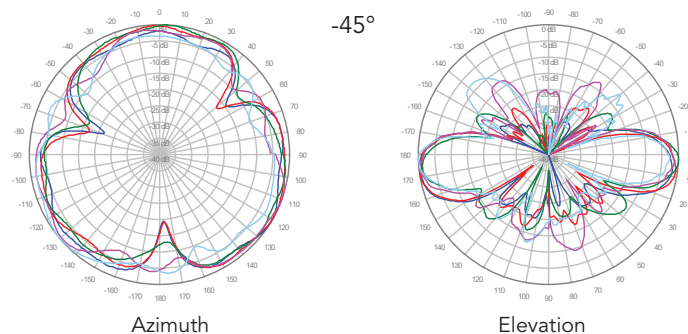
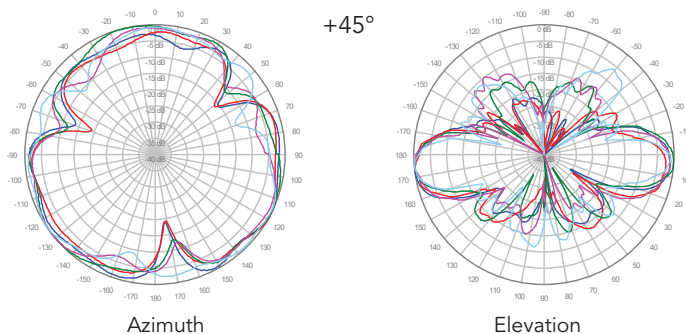
■ Y2, 6° TILT



■ Y3, 6° TILT



■ Y4, 6° TILT



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OMNI

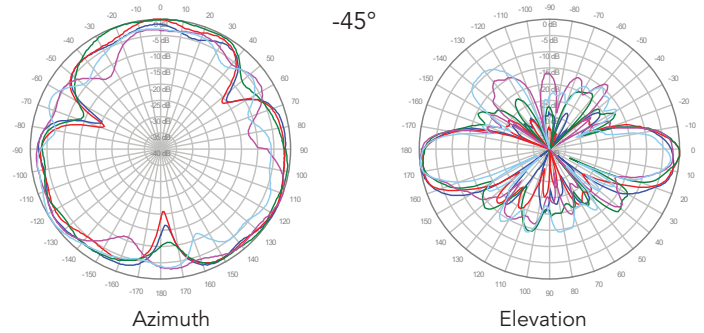
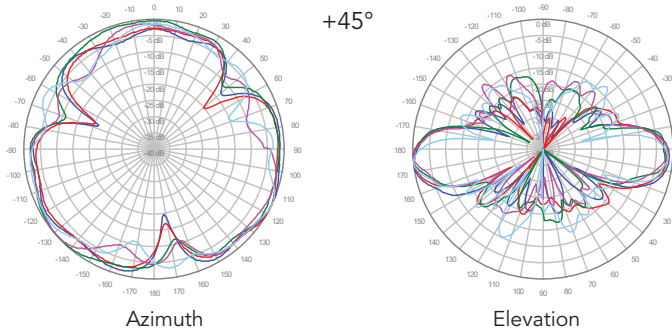
47.4 IN

FIXED TILT

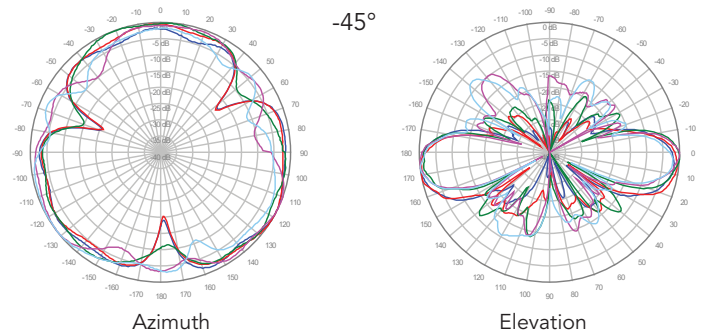
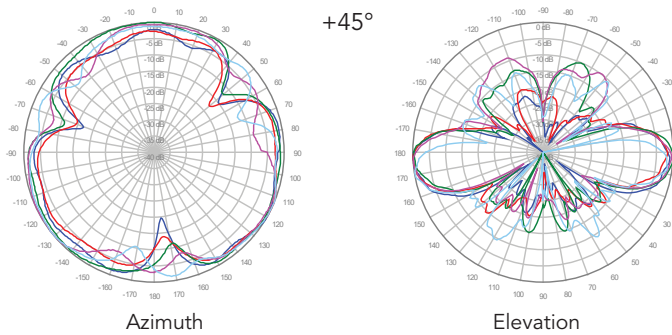
4L6U6VT360X12Fwxys5

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

■ Y5, 6° TILT



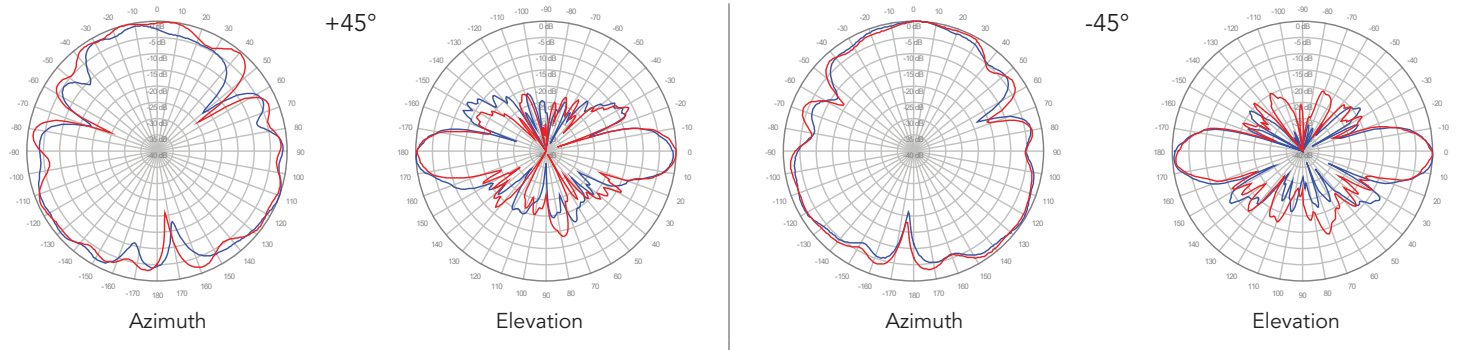
■ Y6, 6° TILT



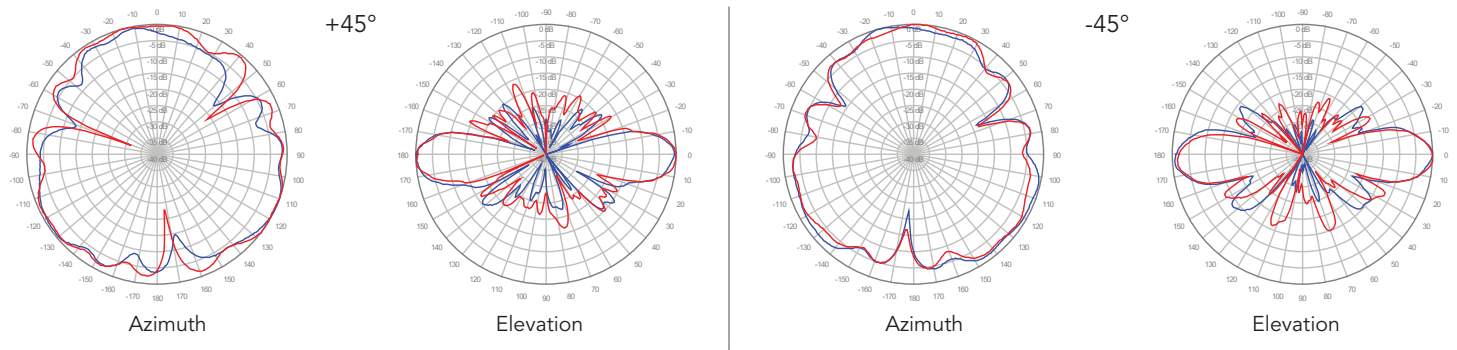
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3600 MHz ————
4000 MHz ————

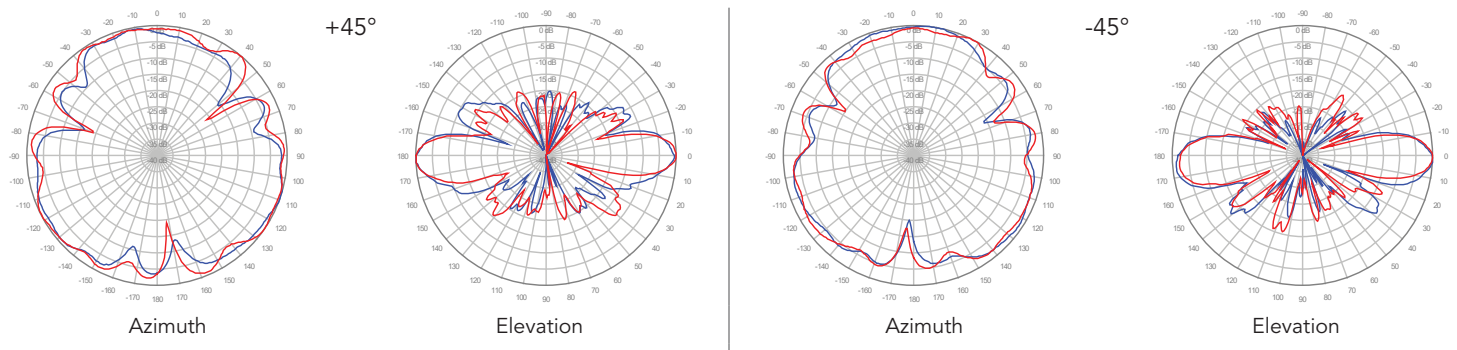
■ P1, 2° TILT



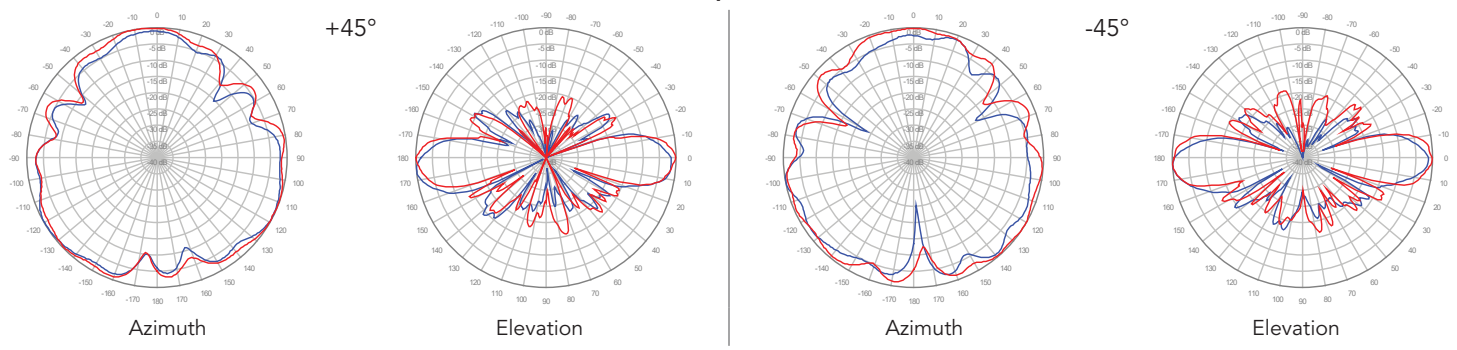
■ P2, 2° TILT



■ P3, 2° TILT



■ P4, 2° TILT



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OMNI

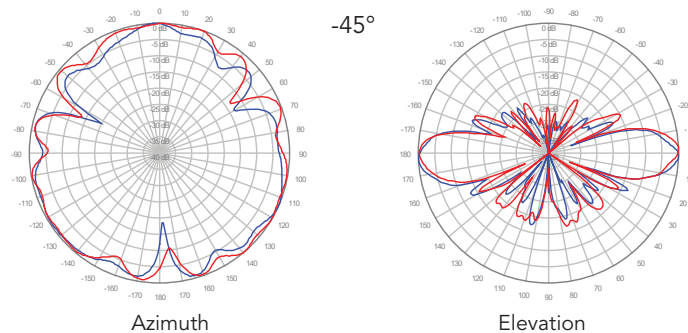
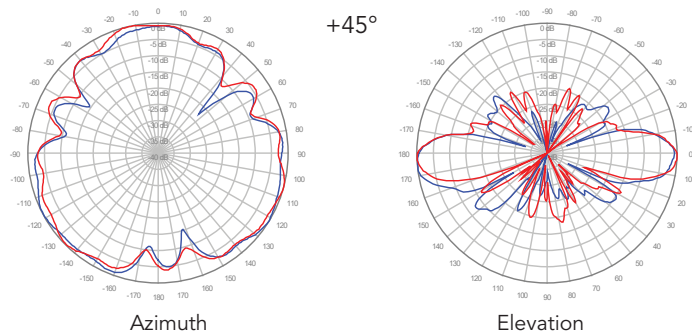
47.4 IN

FIXED TILT

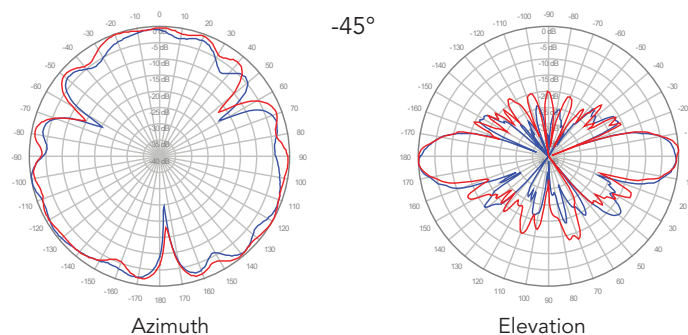
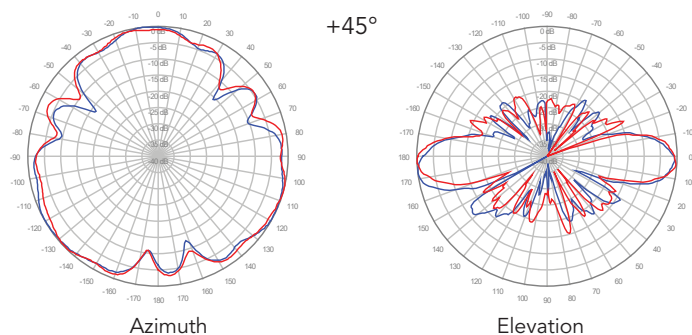
4L6U6VT360X12Fwxys5

3600 MHz ————
4000 MHz ————

■ P5, 2° TILT



■ P6, 2° TILT

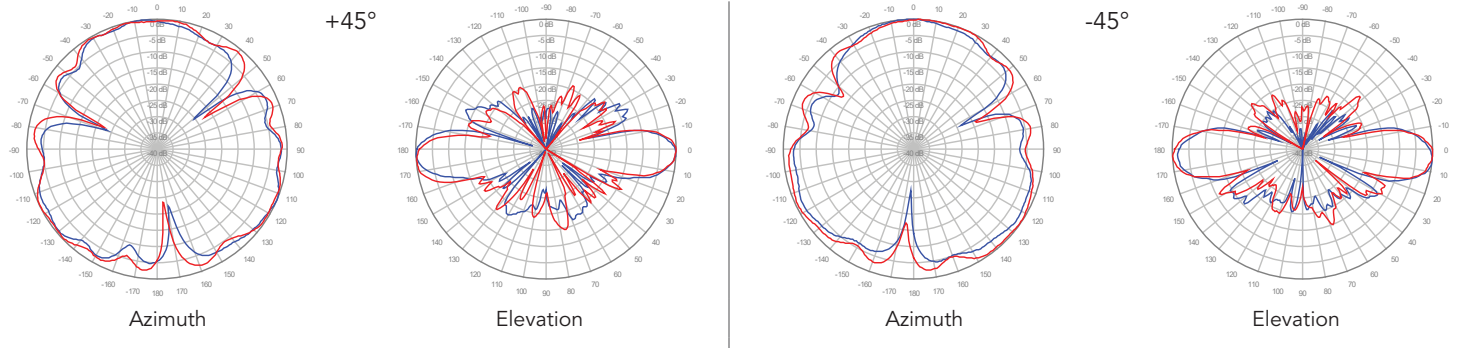


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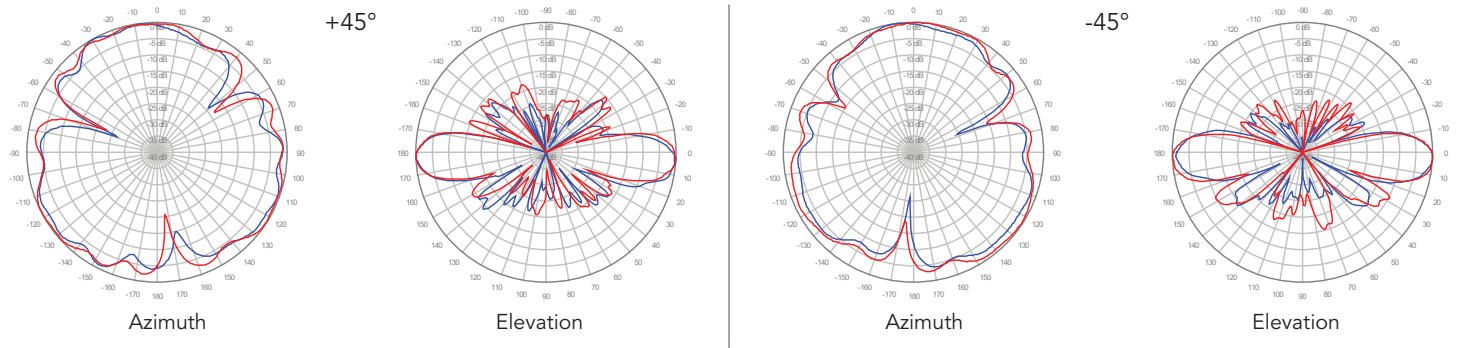
4L6U6VT360X12FwxyS5

3600 MHz ————
4000 MHz ————

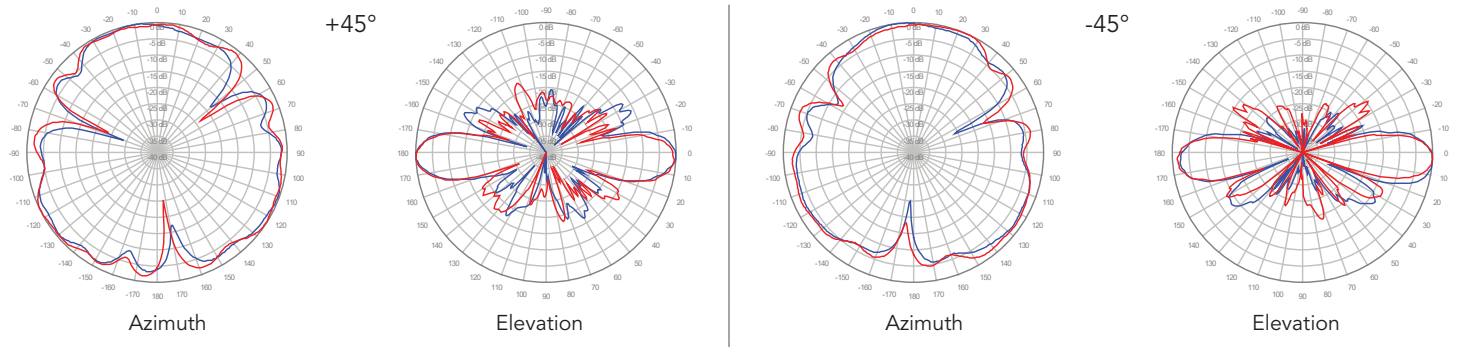
■ P1, 4° TILT



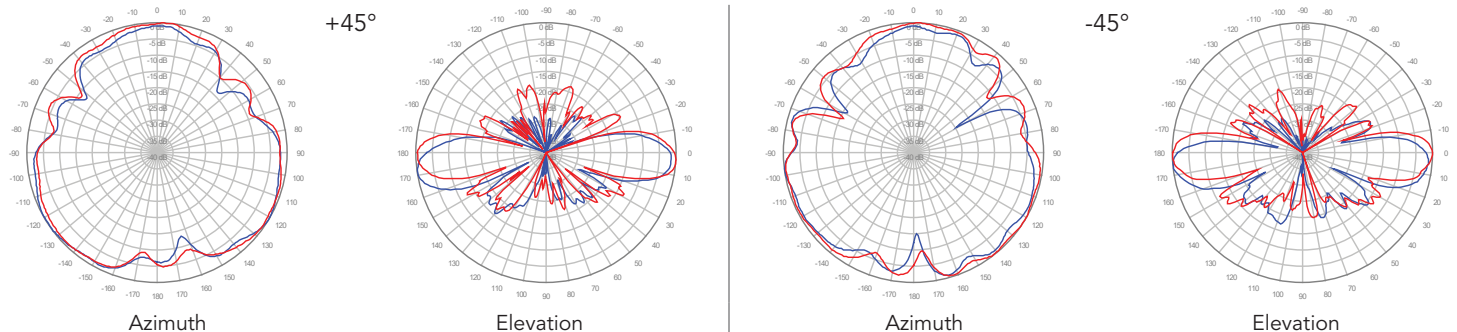
■ P2, 4° TILT



■ P3, 4° TILT



■ P4, 4° TILT

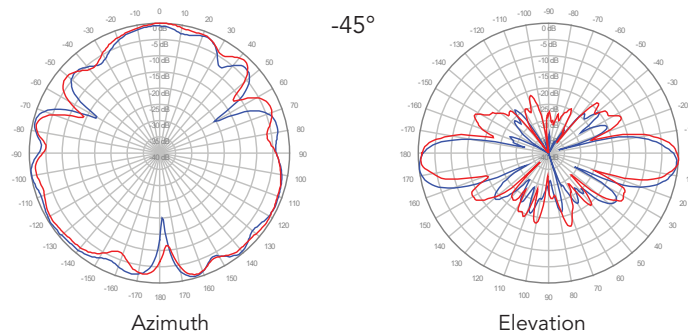
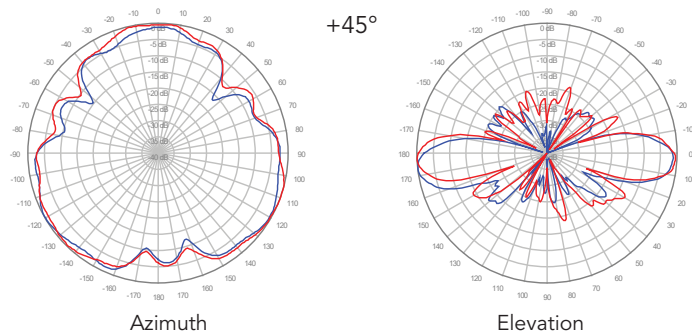


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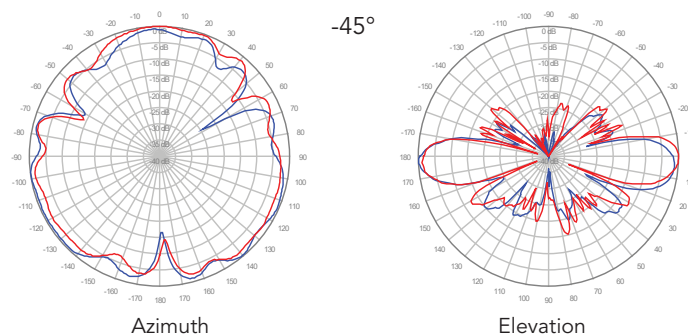
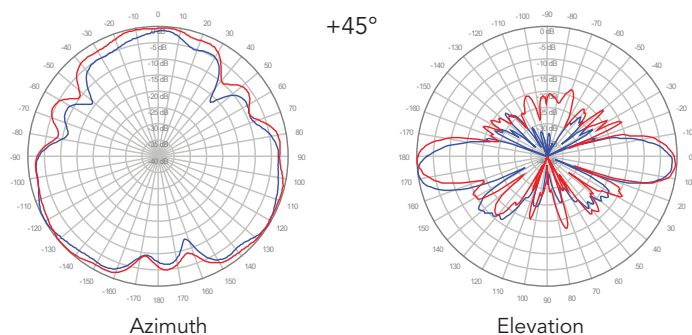
4L6U6VT360X12Fwxys5

3600 MHz ————
4000 MHz ————

■ P5, 4° TILT



■ P6, 4° TILT



OMNI

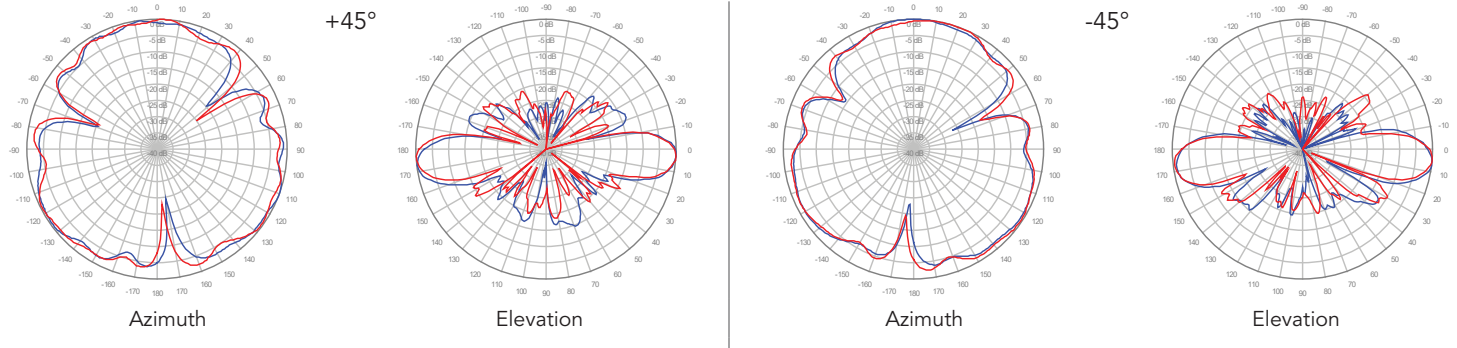
47.4 IN

FIXED TILT

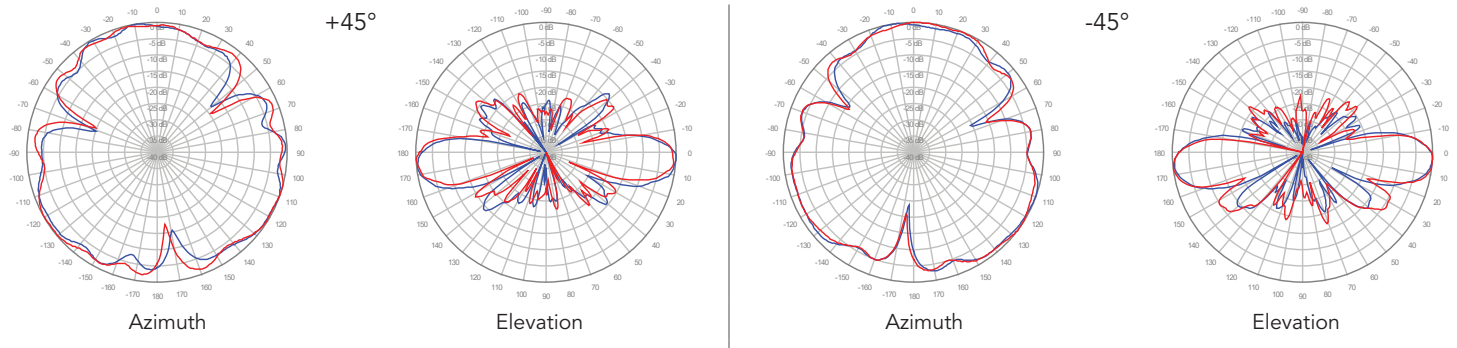
4L6U6VT360X12FwxyS5

3600 MHz ————
4000 MHz ————

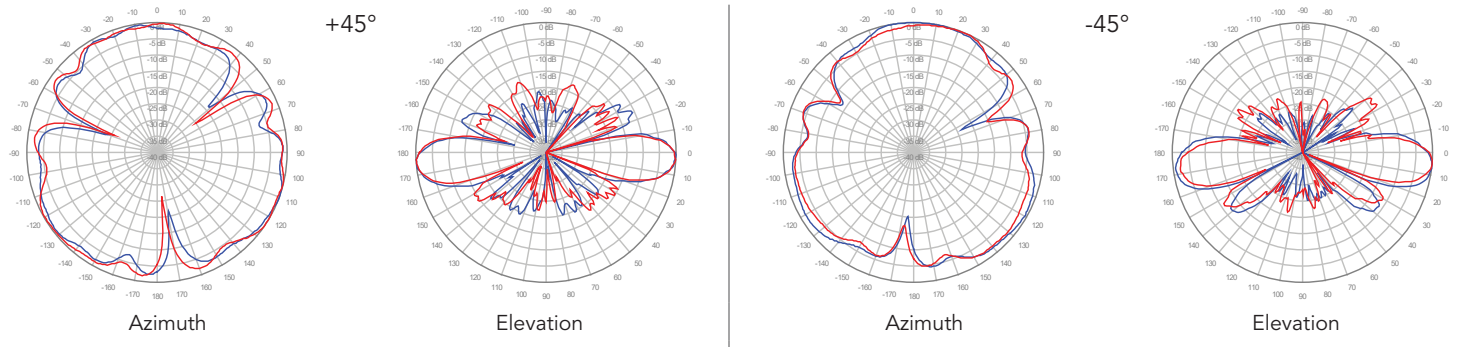
P1, 6° TILT



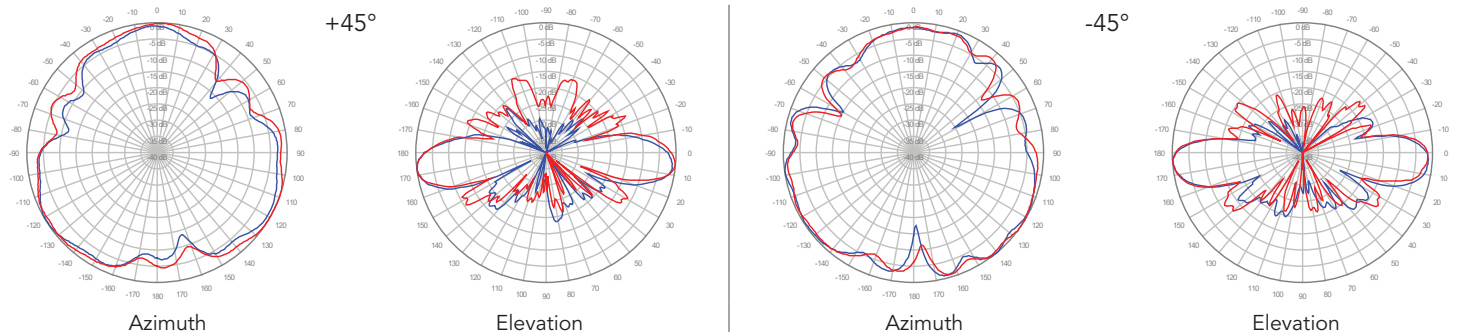
P2, 6° TILT



P3, 6° TILT



P4, 6° TILT



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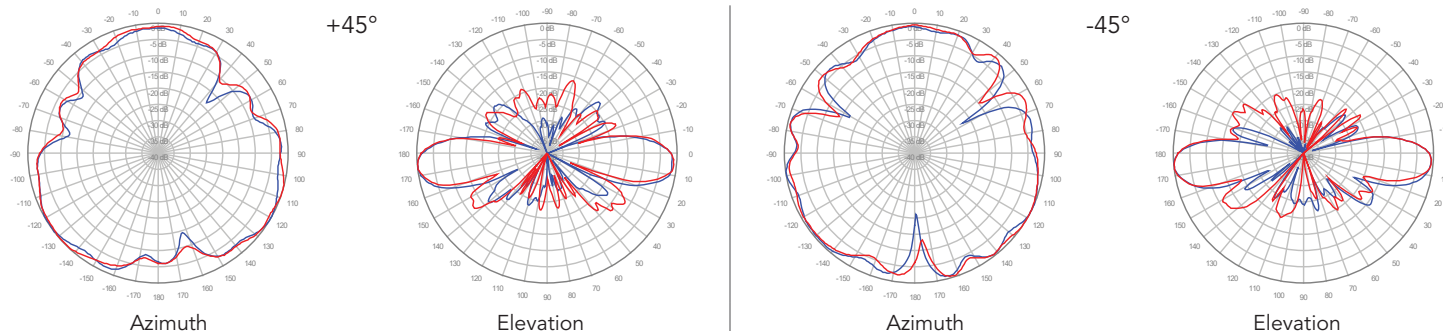
47.4 IN

FIXED TILT

4L6U6VT360X12Fwxys5

3600 MHz ————
4000 MHz ————

■ P5, 6° TILT



■ P6, 6° TILT

