

OMNI | 23.9 IN | FIXED TILT

2C6U4VT360X06Fwxys4



Features

- Pseudo omni configuration with 24 connectors
- 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

PRODUCT OVERVIEW	Frequency Range (MHz)	(2x) 696-960	(6x) 1695-2700	(4x) 3300-4200
	Array	■ R1 ■ R2	■ Y1 ■ Y2 ■ Y3 ■ Y4 ■ Y5 ■ Y6	■ P1 ■ P2 ■ P3 ■ P4
	Connector	4 PORTS	12 PORTS	8 PORTS
	Polarization	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°	360°
	Electrical Downtilt	0°	2°, 4°, 6°	0°
	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)	6400 WATTS		
	Connector Type	(24x) 4.3-10 FEMALE		
	Dimensions	608 x Ø371 mm (23.9 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	4.4 ± 0.7	4.2 ± 0.9
	MAX	dBi	5.1	5.1
Azimuth Beamwidth (3 dB)	degrees	360°		
Elevation Beamwidth (3 dB)	degrees	62° ± 24.9°	54.5° ± 11.3°	
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 bands	

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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) ±45°				
Gain	BASTA	dBi	6.0 ± 1.3	6.4 ± 1.2	6.5 ± 1.2	7.3 ± 1.4
	MAX	dBi	7.3	7.6	7.7	8.7
Azimuth Beamwidth (3 dB)	degrees	360°				
Elevation Beamwidth (3 dB)	degrees	37.4° ± 8.5°	35.2° ± 7.6°	33.4° ± 7.5°	28.4° ± 6.7°	
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	> 13.6	> 14.1	> 13.3	> 11.1	
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28 same band; > 30 different bands			

ELECTRICAL SPECIFICATIONS

■ P1 ■ P2 ■ P3 ■ P4

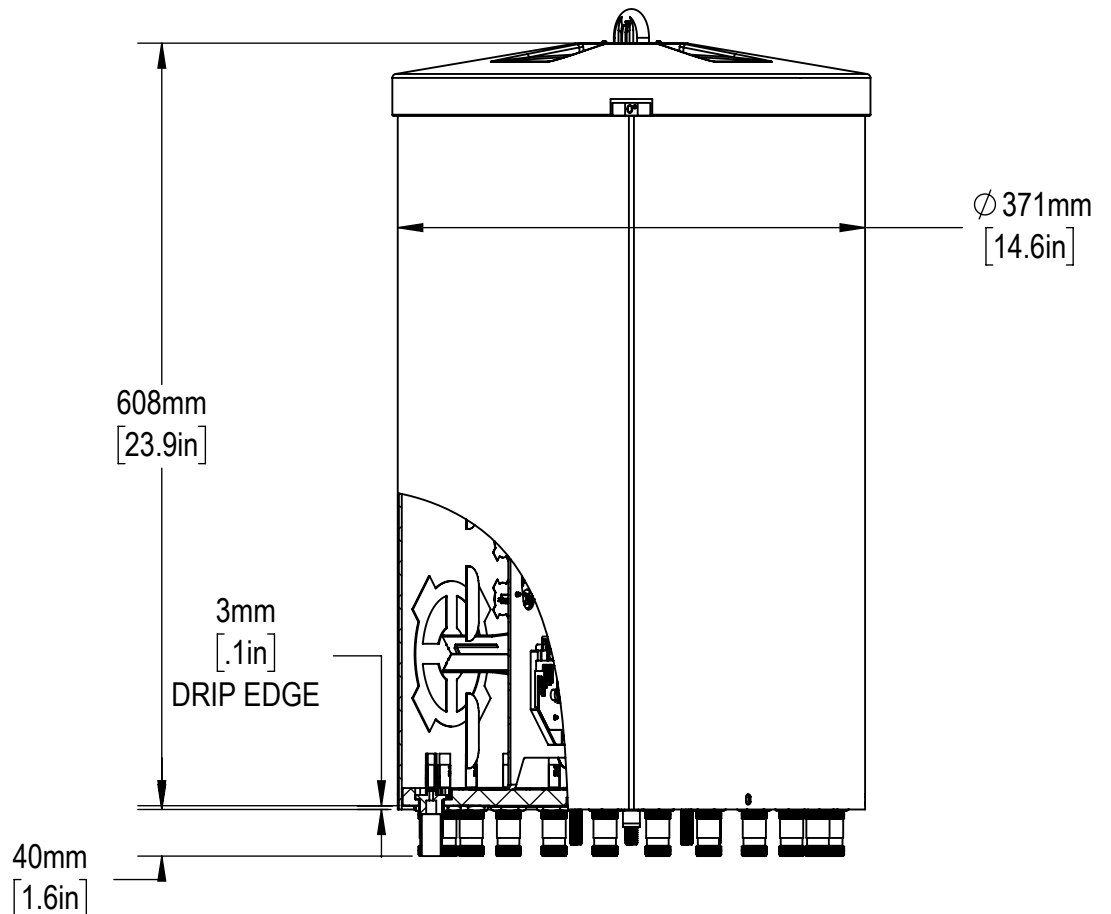
Frequency Range	MHz	(4x) 3300-4200			
Frequency Sub-Range	MHz	3300-3550	3550-3700	3700-4200	
Polarization	---	(4x) ±45°			
Gain	BASTA	dBi	6.7 ± 0.8	6.8 ± 0.9	8.0 ± 1.3
	MAX	dBi	7.5	7.7	9.3
Azimuth Beamwidth (3 dB)	degrees	360°			
Elevation Beamwidth (3 dB)	degrees	27.0 ± 6.0°	25.4 ± 5.8°	25.0 ± 4.9°	
Electrical Downtilt	degrees	(y) 0°			
Impedance	Ohms	50Ω			
VSWR	---	≤ 1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBc	< -153			
Upper Sidelobe Suppression	dB	> 15.6	> 14.6	> 14.6	
Isolation	Intraband	dB	> 25		
	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)	14.1 (31.0)
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	---	(24x) 4.3-10 Female
	Position	---	Bottom
Radome Color		---	Grey (RAL 7035) Brown (RAL 8022) Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground

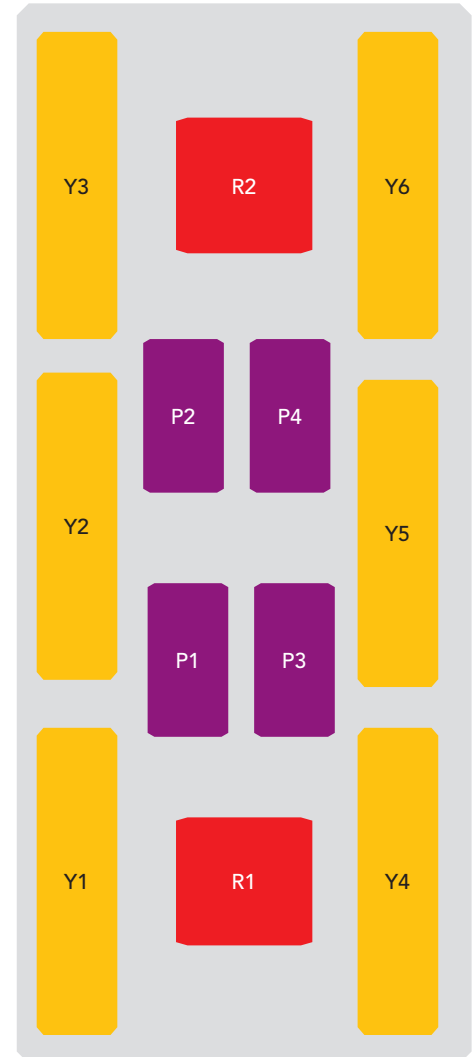


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ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	■ R1	1-2	(2x) 4.3-10 Female
696-960 MHz	■ R1	3-4	(2x) 4.3-10 Female
1695-2700 MHz	■ Y1	5-6	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	7-8	(2x) 4.3-10 Female
1695-2700 MHz	■ Y3	9-10	(2x) 4.3-10 Female
1695-2700 MHz	■ Y4	11-12	(2x) 4.3-10 Female
1695-2700 MHz	■ Y5	13-14	(2x) 4.3-10 Female
1695-2700 MHz	■ Y6	15-16	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	17-18	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	19-20	(2x) 4.3-10 Female
3300-4200 MHz	■ P3	21-22	(2x) 4.3-10 Female
3300-4200 MHz	■ P4	23-24	(2x) 4.3-10 Female

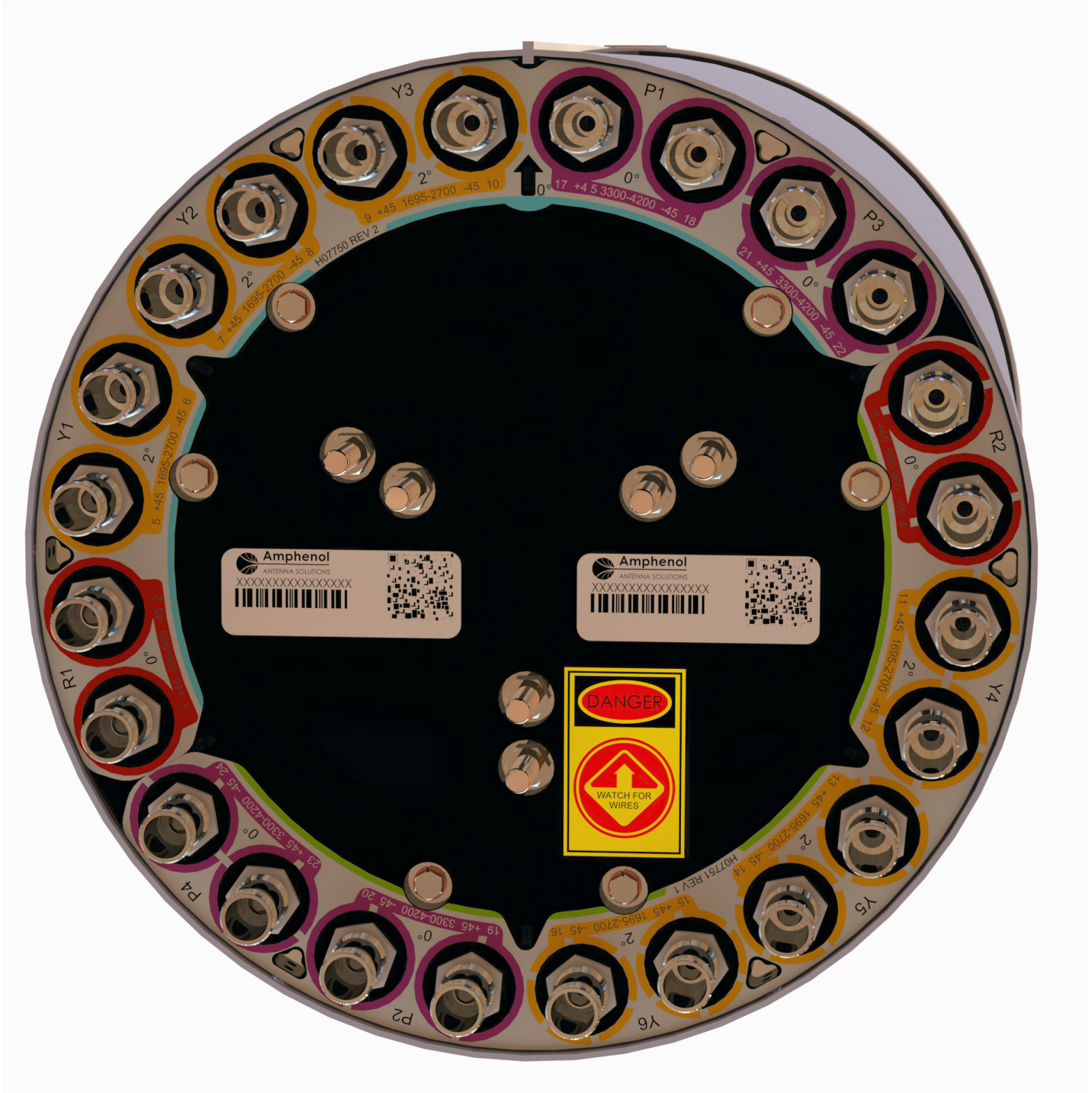


The illustration is not shown to scale.

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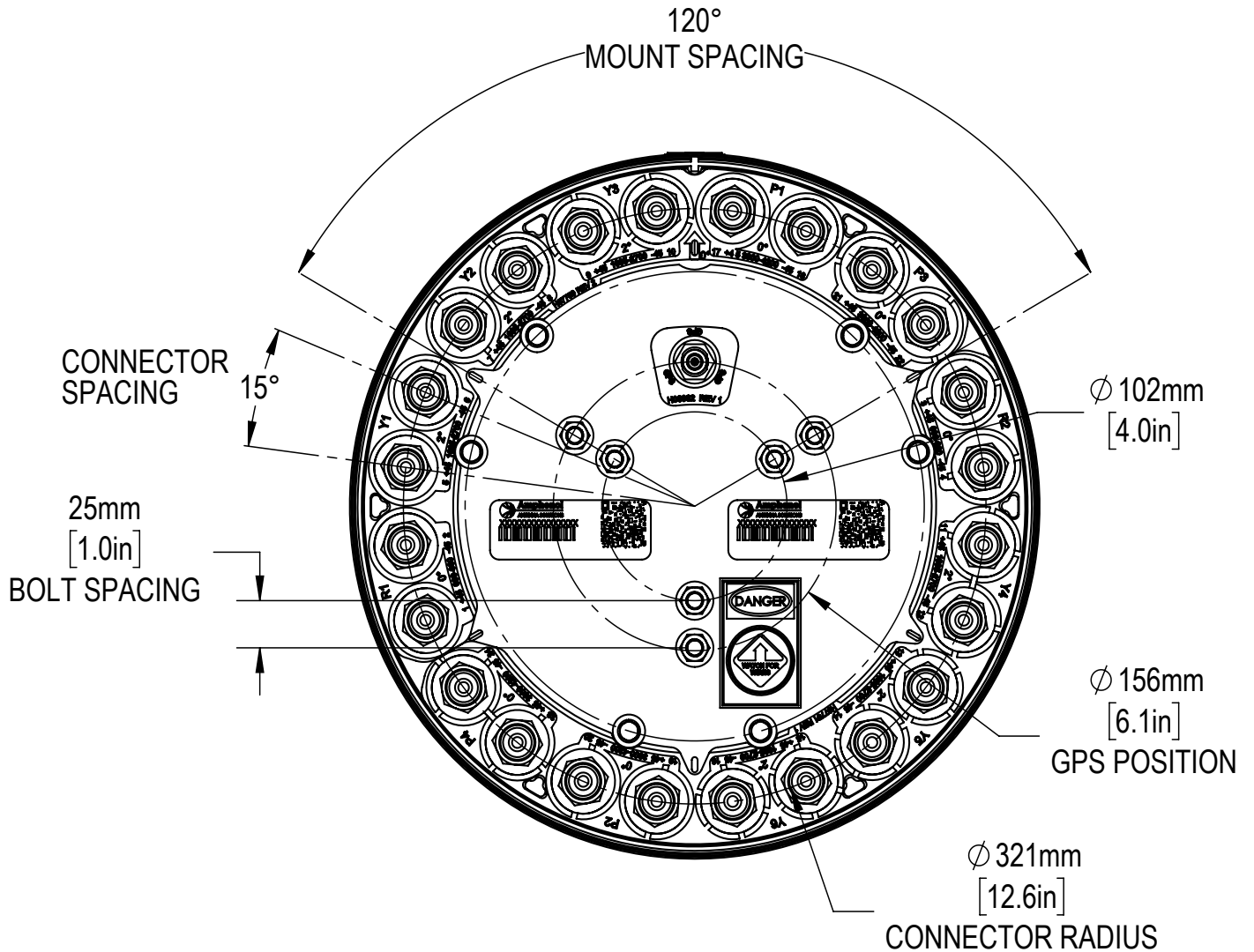
BOTTOM VIEW - LABELING



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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	IMAGE	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
2C	6U	4V	T	360	X	06	F	wxy	s	4	BK BR
(2x) 696-960	(6x) 1695-2700	(4x) 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	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

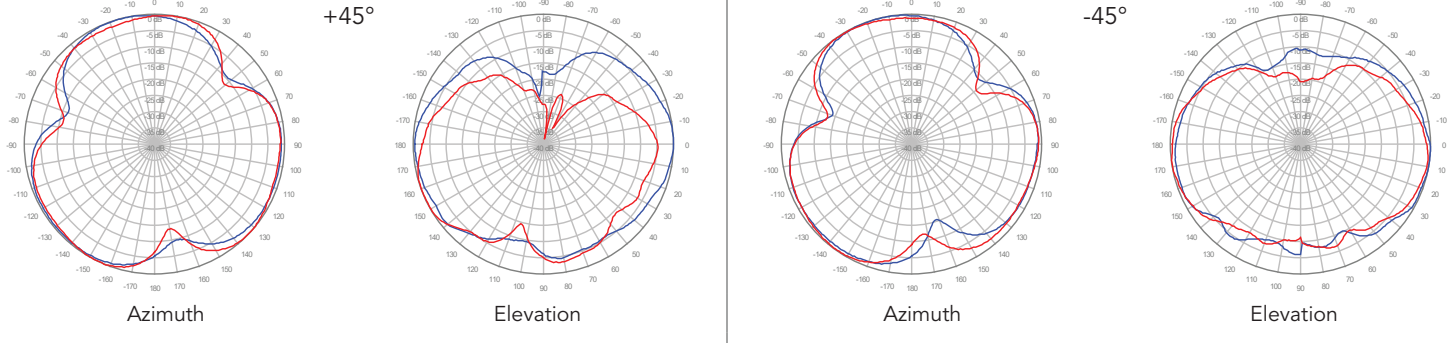
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			MODEL NUMBER
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	
Grey RAL 7035	0°	2°	0°	2C6U4VT360X06F020s4
	0°	4°	0°	2C6U4VT360X06F040s4
	0°	6°	0°	2C6U4VT360X06F060s4
Brown RAL 8022	0°	2°	0°	2C6U4VT360X06F020s4BR
	0°	4°	0°	2C6U4VT360X06F040s4BR
	0°	6°	0°	2C6U4VT360X06F060s4BR
Black RAL 9011	0°	2°	0°	2C6U4VT360X06F020s4BK
	0°	4°	0°	2C6U4VT360X06F040s4BK
	0°	6°	0°	2C6U4VT360X06F060s4BK

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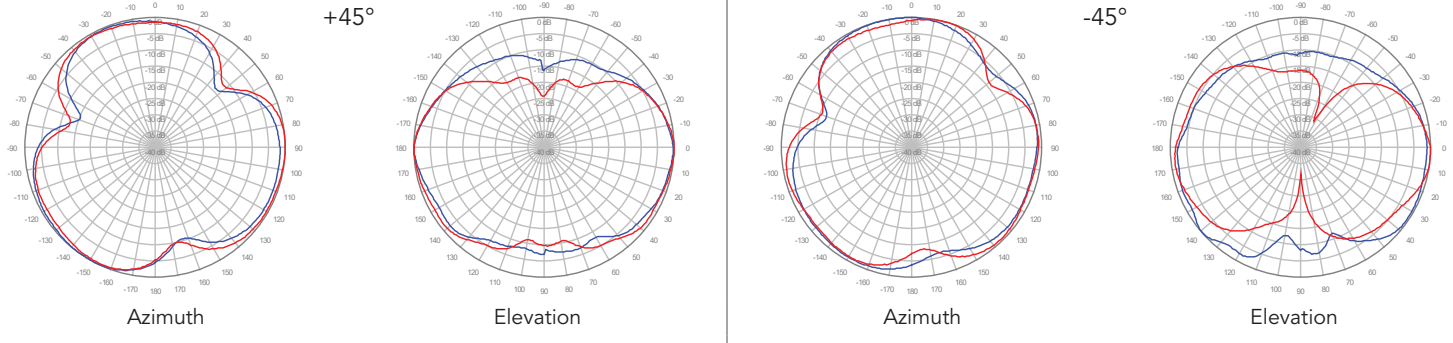
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750 MHz ————
850 MHz ————

R1, 0° TILT



R2, 0° TILT

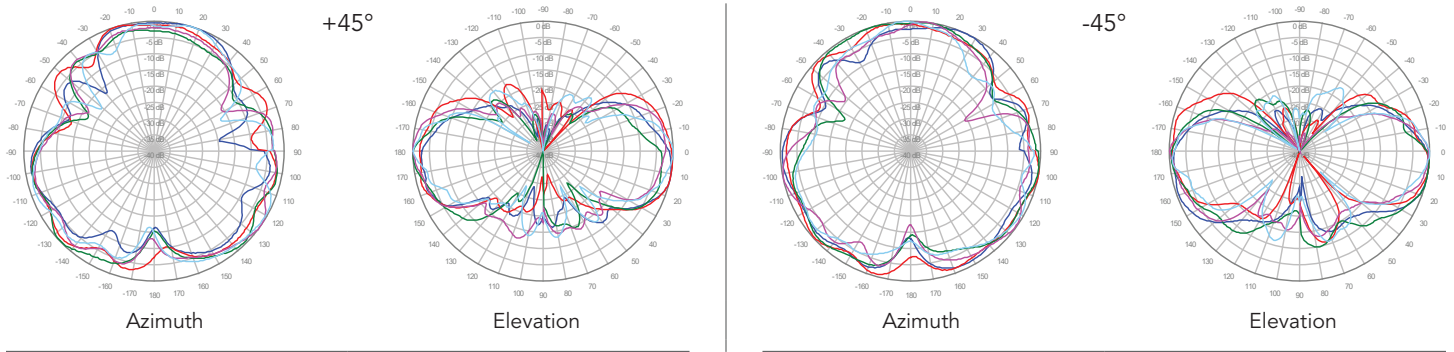


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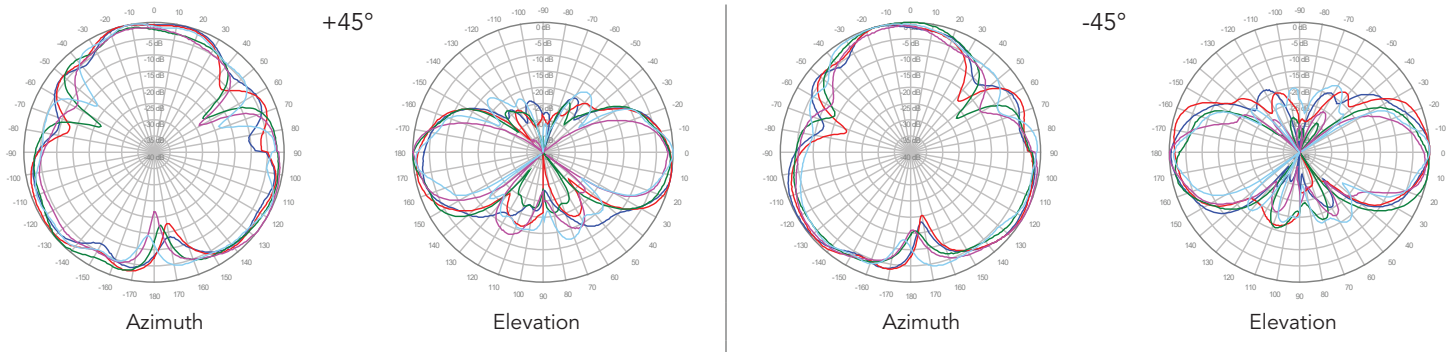
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- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

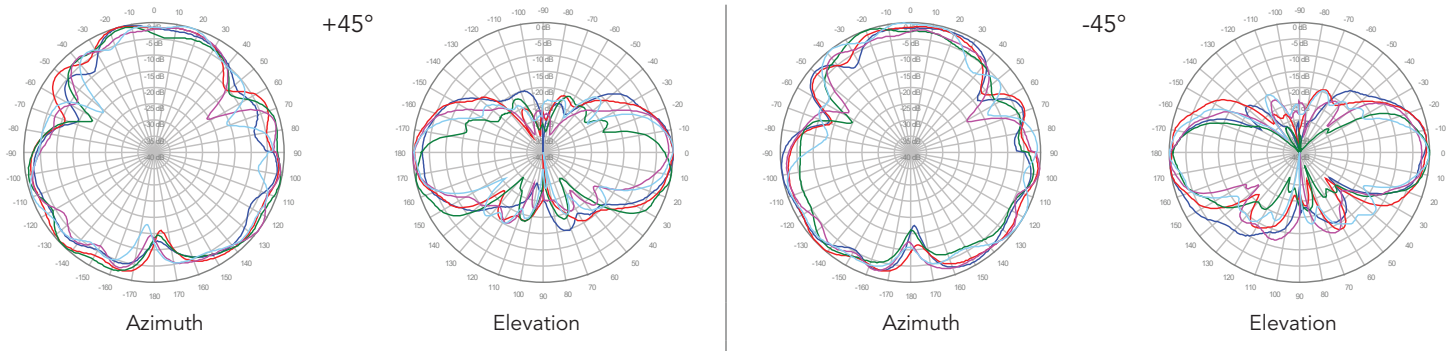
■ Y1, 2° TILT



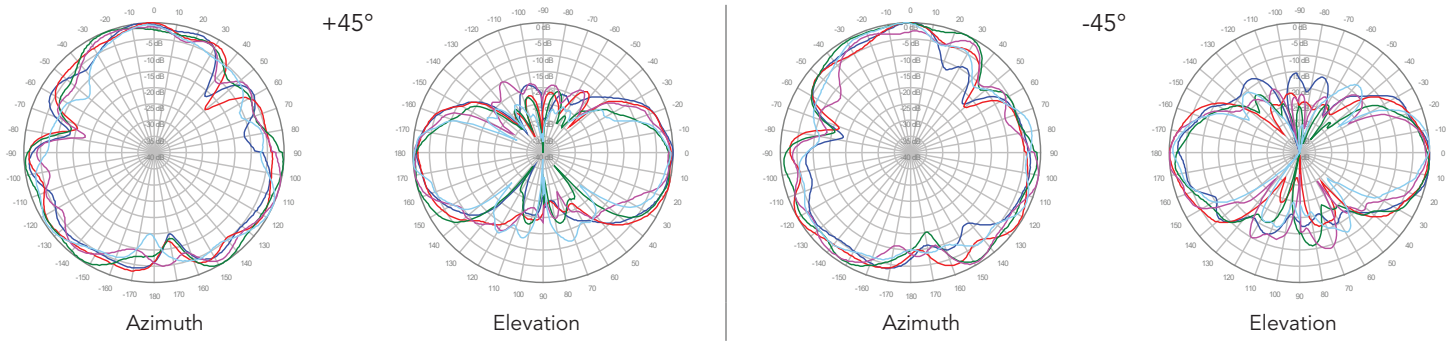
■ Y2, 2° TILT



■ Y3, 2° TILT



■ Y4, 2° TILT

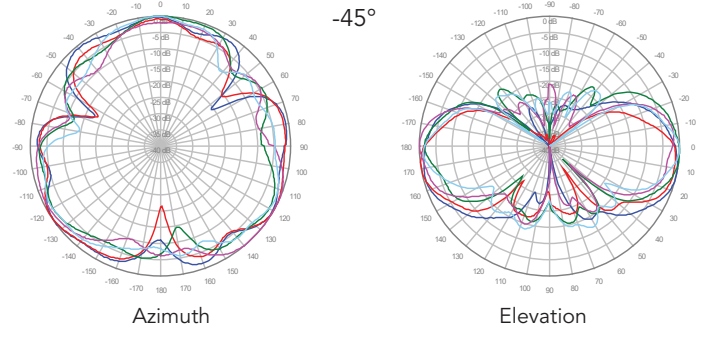
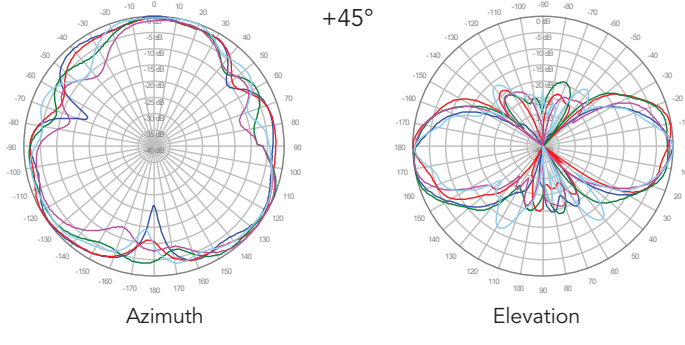


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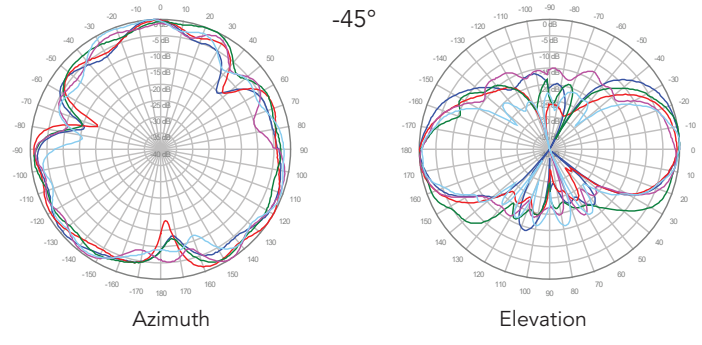
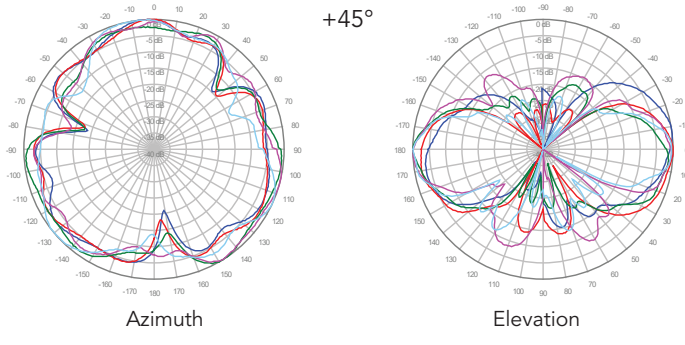
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- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

■ Y5, 2° TILT



■ Y6, 2° TILT

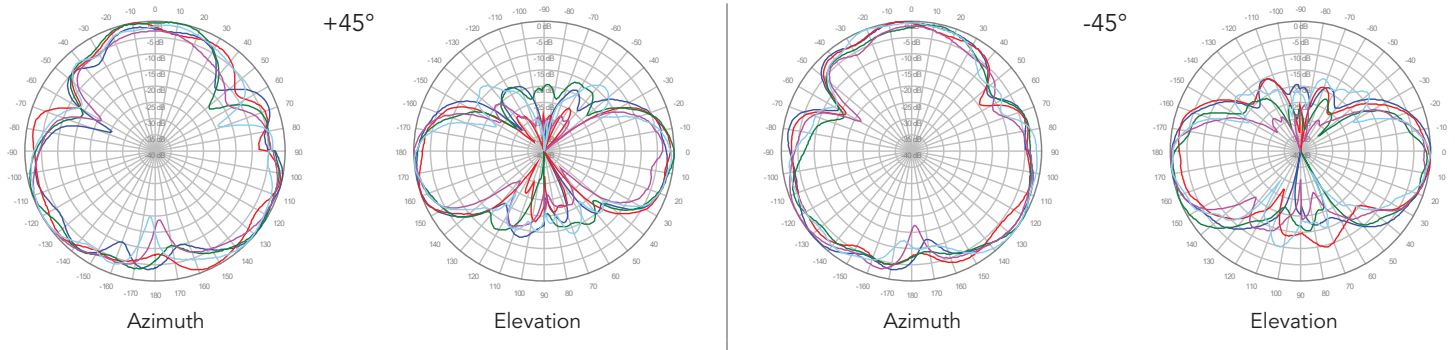


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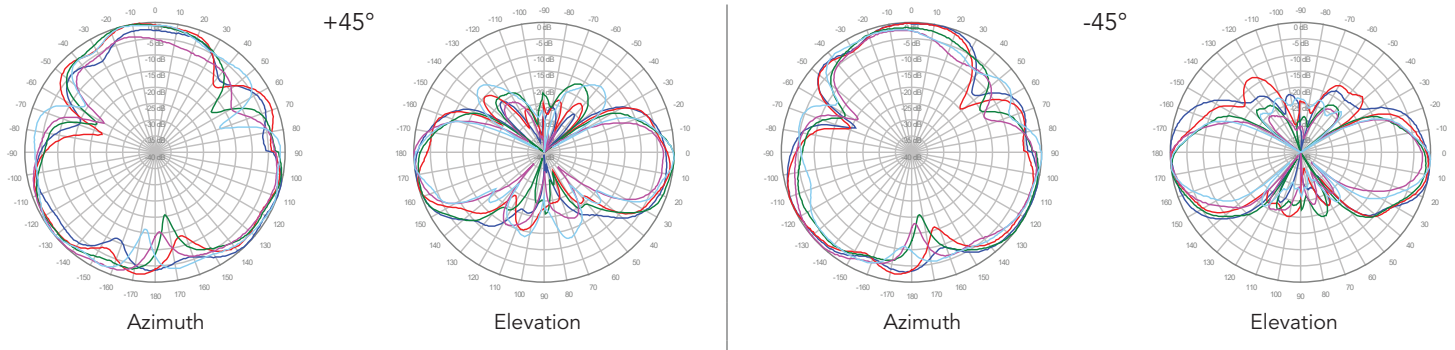
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- 1800 MHz ———
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- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

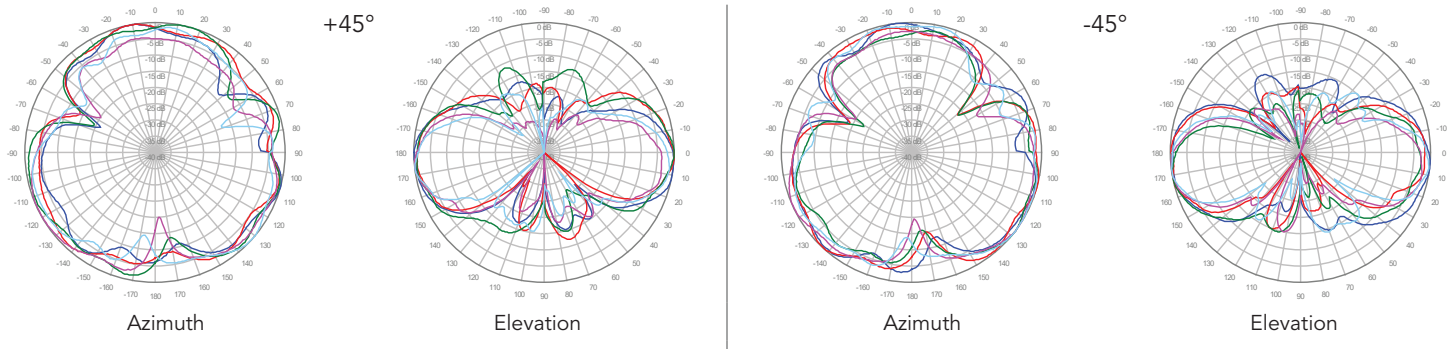
Y1, 4° TILT



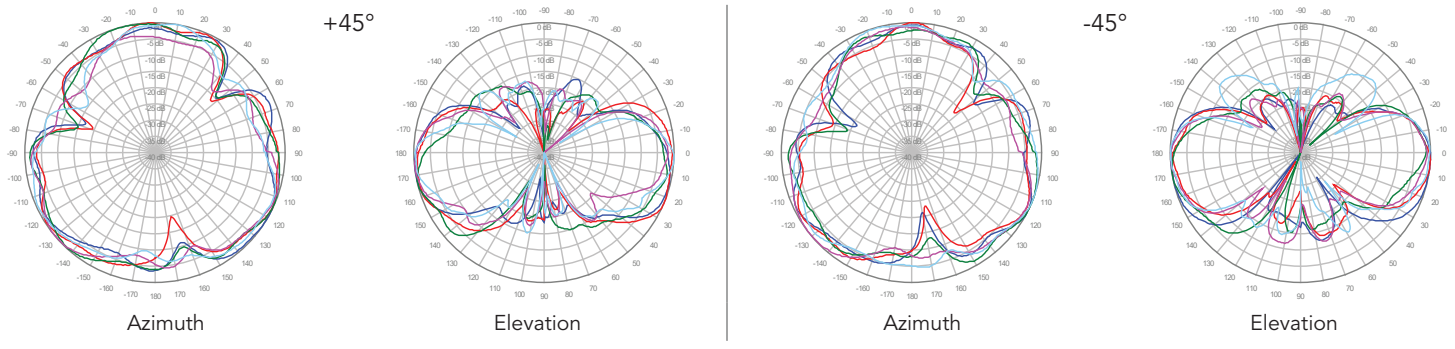
Y2, 4° TILT



Y3, 4° TILT



Y4, 4° TILT

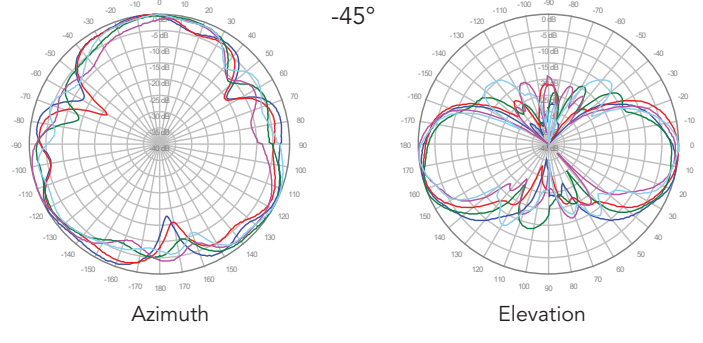
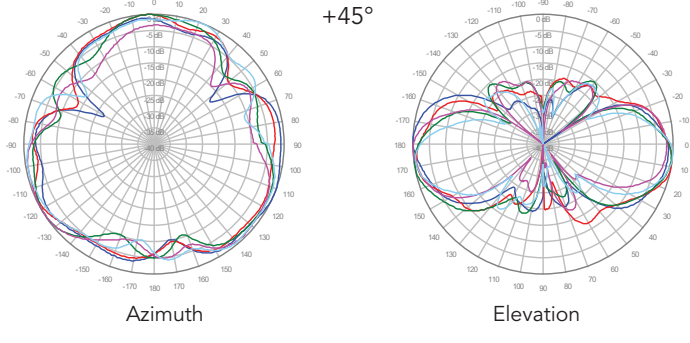


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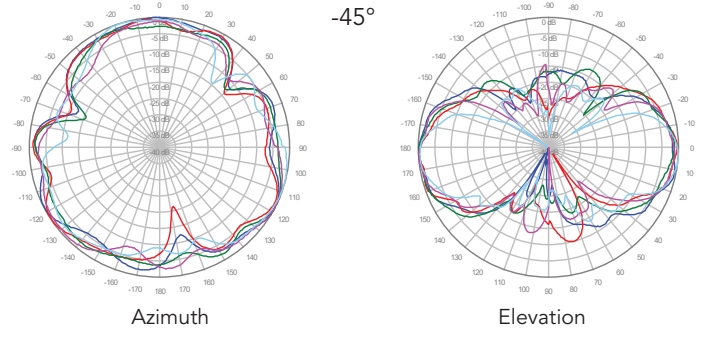
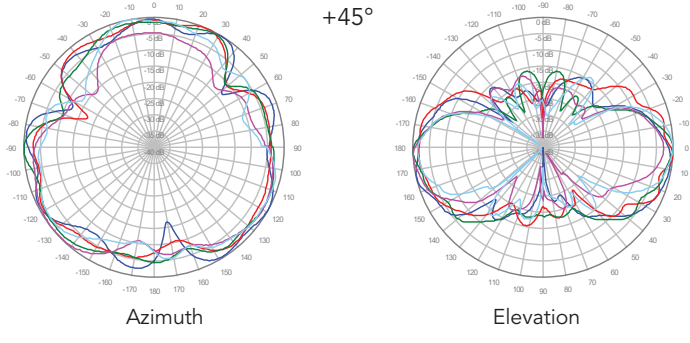
2C6U4VT360X06Fwxys4

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

■ Y5, 4° TILT



■ Y6, 4° TILT

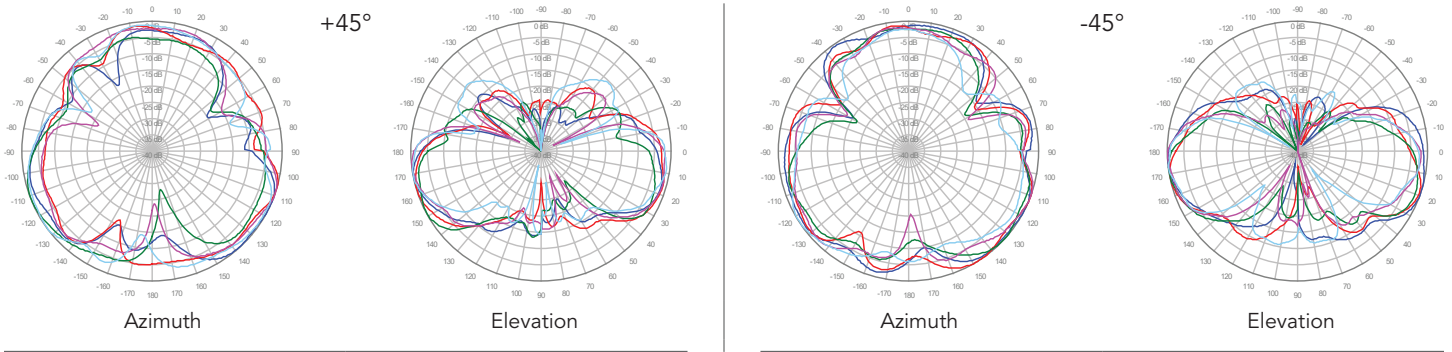


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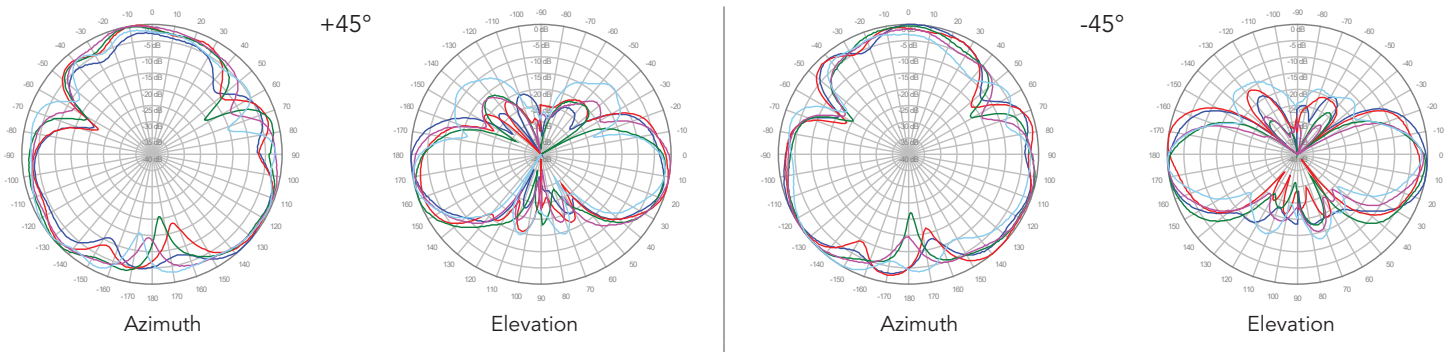
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- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

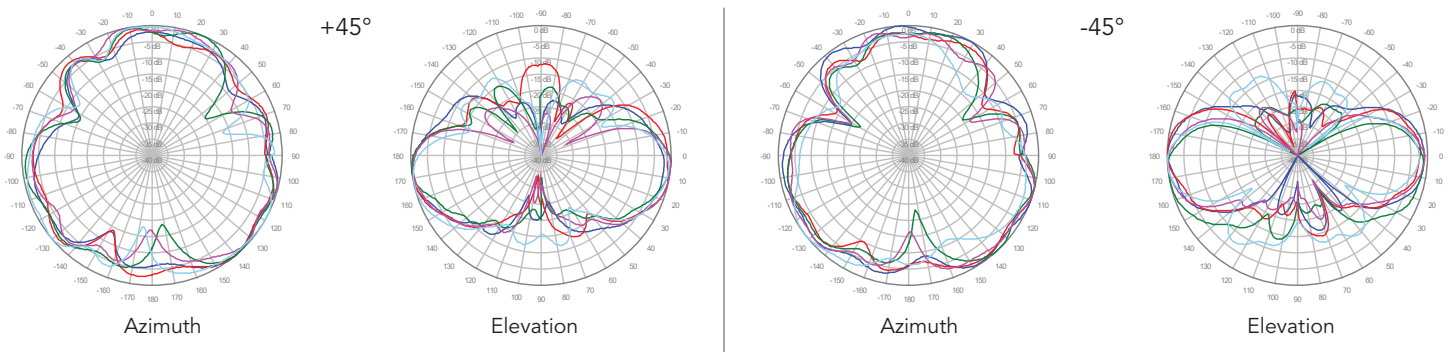
■ Y1, 6° TILT



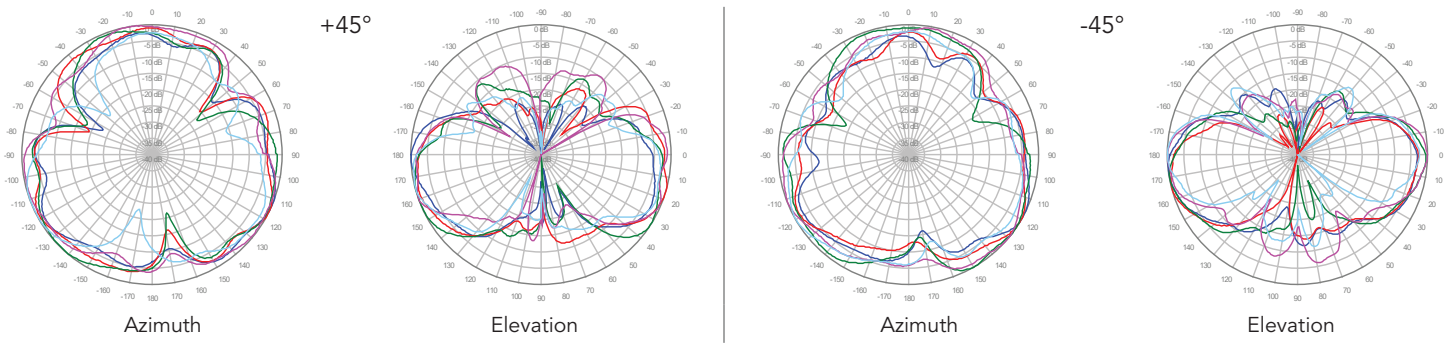
■ Y2, 6° TILT



■ Y3, 6° TILT



■ Y4, 6° TILT

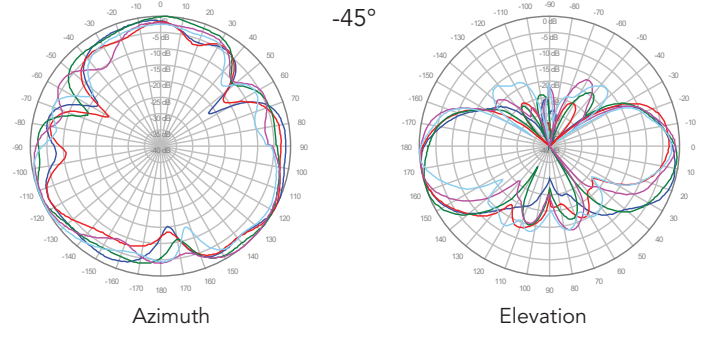
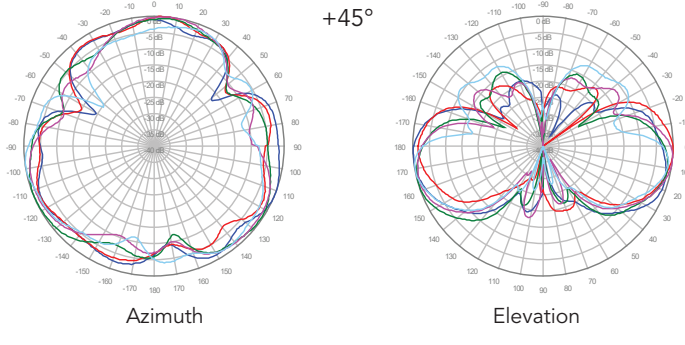


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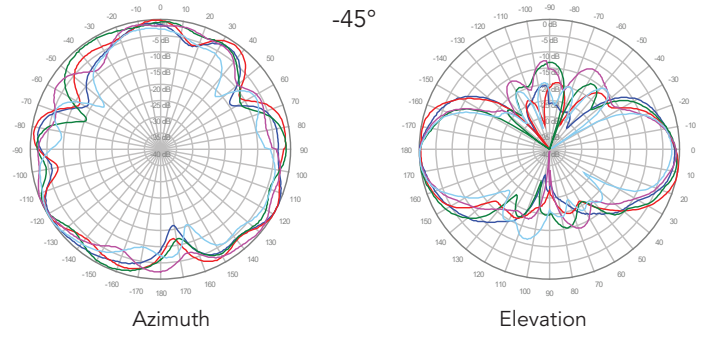
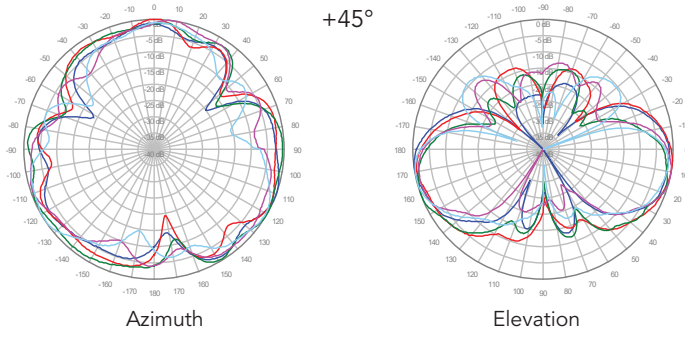
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- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

■ Y5, 6° TILT



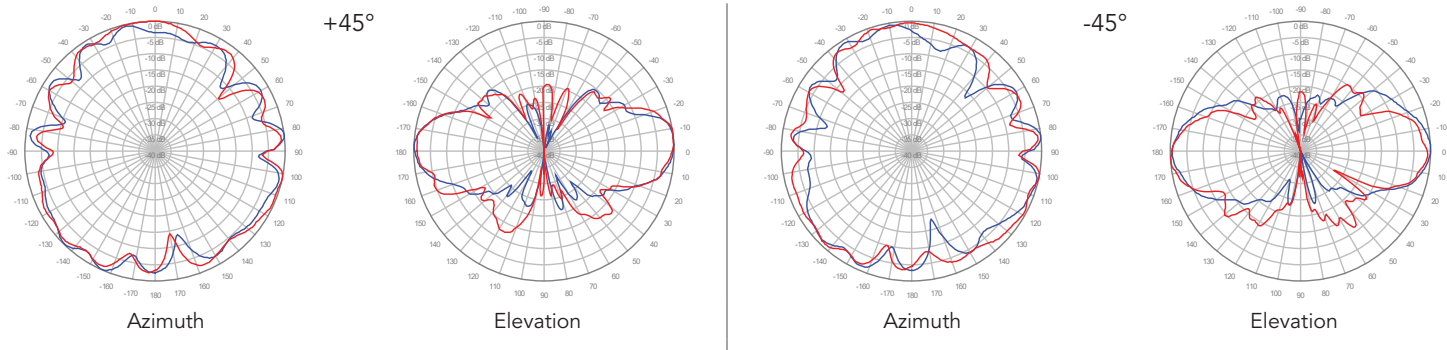
■ Y6, 6° TILT



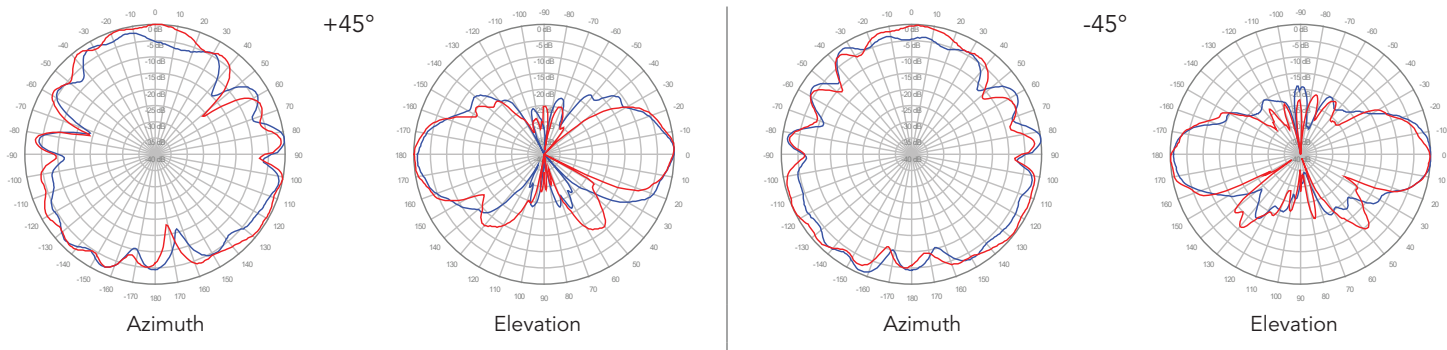
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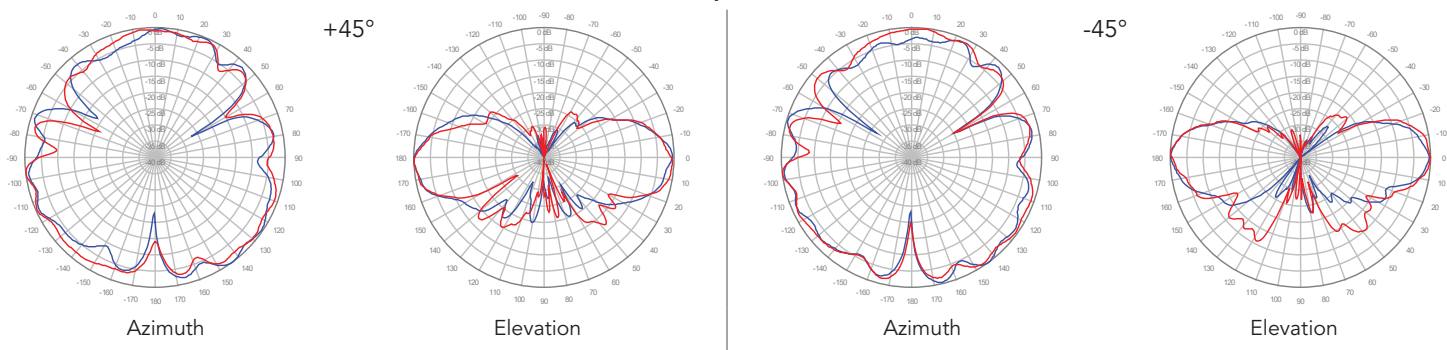
P1, 0° TILT



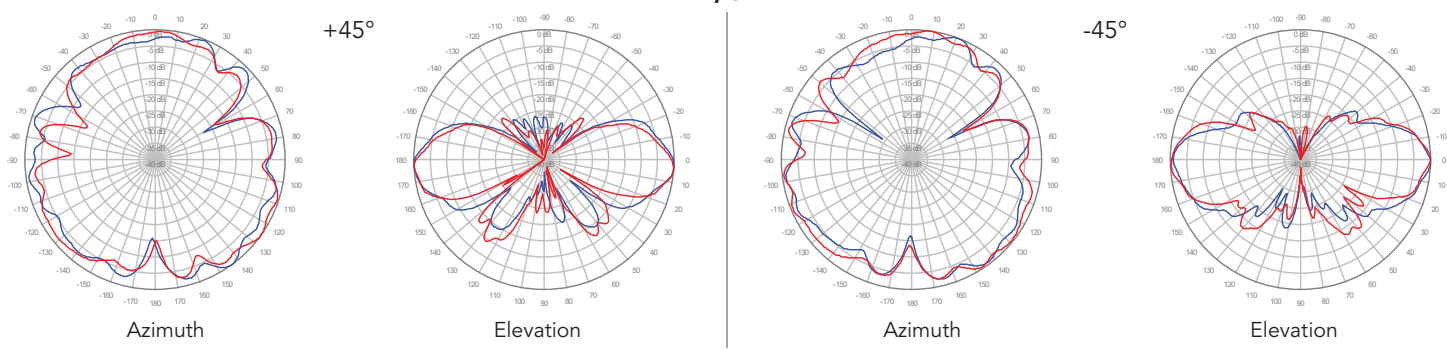
P2, 0° TILT



P3, 0° TILT



P4, 0° TILT



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