

C2U2VTSP1X06Fwxys4



Features

- Sector & omni configuration with 22 connectors
- Sectorized arrays in both the 696-960 and 1695-2700 frequencies
- Omni arrays in the 3300-4200 frequency
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 696-960, 1695-2700 and 3300-4200 MHz
- Easily removable lifting ring

PRODUCT OVERVIEW	Frequency Range (MHz)	(1x) 696-960	(2x) 1695-2700	(2x) 3300-4200
	Array	■ R1 ■ R2 ■ R3	■ Y1 ■ Y2 ■ Y3 ■ Y4 ■ Y5 ■ Y6	■ P1 ■ P2
	Connector	6 PORTS	12 PORTS	4 PORTS
	Polarization	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	SECTORIZED	SECTORIZED	OMNI
	Electrical Downtilt	0°	2°, 4°, 6°	6°
	Configuration	SECTOR & OMNI COMBINATION		
	Maximum Continuous Power Per Port @ 50° C (122° F)	100 WATTS	100 WATTS	50 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	2000 WATTS		
	Connector Type	(22x) 4.3-10 FEMALE		
	Dimensions	610 x Ø371 mm (24.0 x Ø14.6 in)		
	Radome Color Options	GREY, BROWN or BLACK		

ELECTRICAL SPECIFICATIONS Sectorized

■ R1 ■ R2 ■ R3

Frequency Range	MHz	(1x) 696-960	
Frequency Sub-Range	MHz	696-806	806-960
Polarization	---	±45°	
Gain	BASTA	dBi	9.3 ± 0.7
	MAX	dBi	10.0
Azimuth Beamwidth (3 dB)	degrees	90.4° ± 8.4°	80.3° ± 7.1°
Elevation Beamwidth (3 dB)	degrees	41.6° ± 3.8°	38.2° ± 3.5°
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	
Front-to-Back Ratio	dB	> 15.5	> 16.6
Isolation	Intraband	dB	> 25
	Interband	dB	> 28 same band; > 30 different band

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ELECTRICAL SPECIFICATIONS Sectorized

■ Y1 ■ Y2 ■ Y3 ■ Y4 ■ Y5 ■ Y6

Frequency Range	MHz	(2x) 1695-2700				
Frequency Sub-Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700	
Polarization	---	±45°				
Gain	BASTA	dBi	12.4 ± 0.6	12.2 ± 0.6	12.2 ± 0.9	13.4 ± 0.9
	MAX	dBi	13.0	12.8	13.1	14.3
Azimuth Beamwidth (3 dB)	degrees	68.1° ± 13.7°	75.4° ± 13°	73.7° ± 12.5°	60.1° ± 10°	
Elevation Beamwidth (3 dB)	degrees	21.1° ± 1.8°	19.5° ± 1.6°	18.4° ± 1.8°	15.9° ± 1.8°	
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				
Front-to-Back Ratio	dB	> 22.7	> 21.0	> 20.2	> 21.6	
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28 same band; > 30 different band			

ELECTRICAL SPECIFICATIONS Omni

■ P1 ■ P2

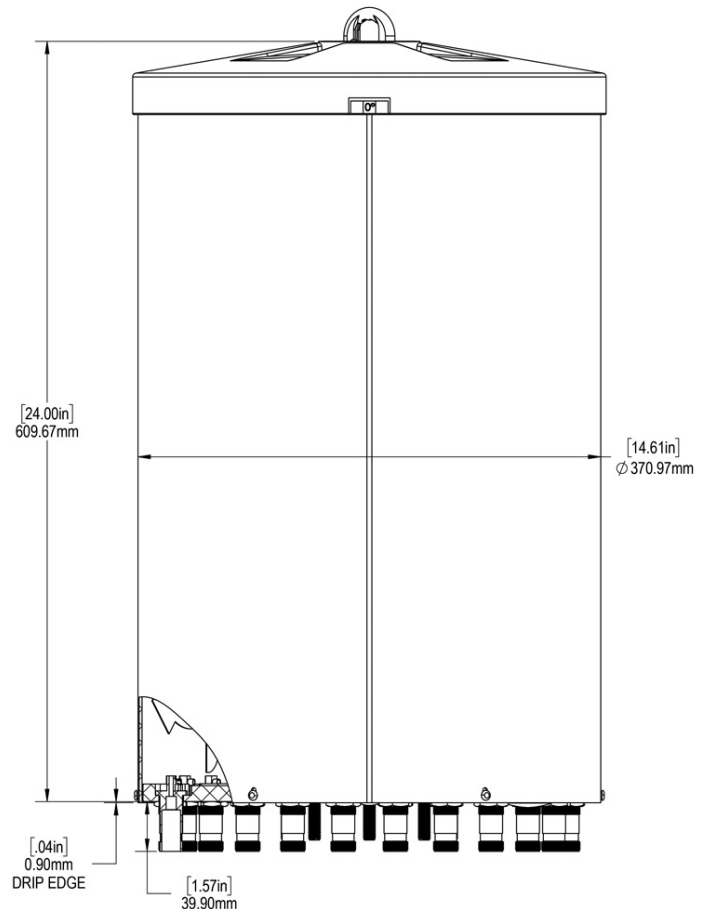
Frequency Range	MHz	(2x) 3300-4200			
Frequency Sub-Range	MHz	3300-3550	3550-3700	3700-4200	
Polarization	---	±45°			
Gain	BASTA	dBi	8.6 ± 0.6	8.1 ± 0.9	7.5 ± 0.6
	MAX	dBi	9.2	9.0	8.1
Azimuth Beamwidth (3 dB)	degrees	360°	360°	360°	
Elevation Beamwidth (3 dB)	degrees	20.3° ± 2.7°	17.9° ± 1.3°	17.5° ± 1.9°	
Electrical Downtilt	degrees	(y) 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)	610 (24.0)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	11 (25)
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	---	(22x) 4.3-10 Female
	Position	---	Bottom
Radome Color		---	Grey (RAL 7035), Brown (RAL 8022), Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground

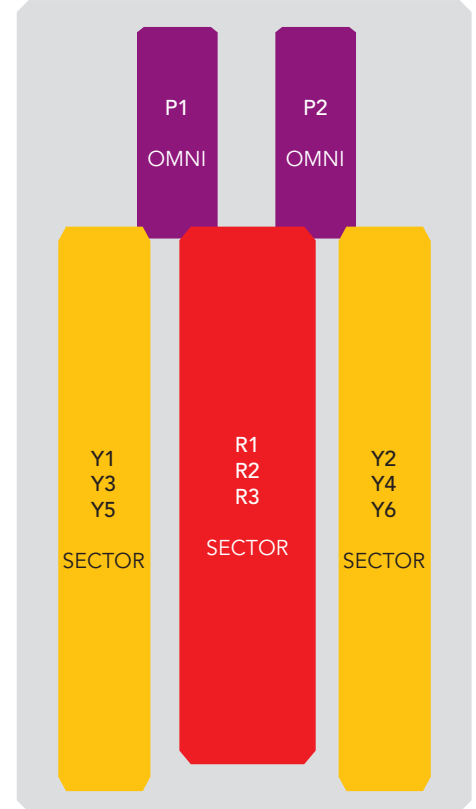


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ARRAY LAYOUT Topology

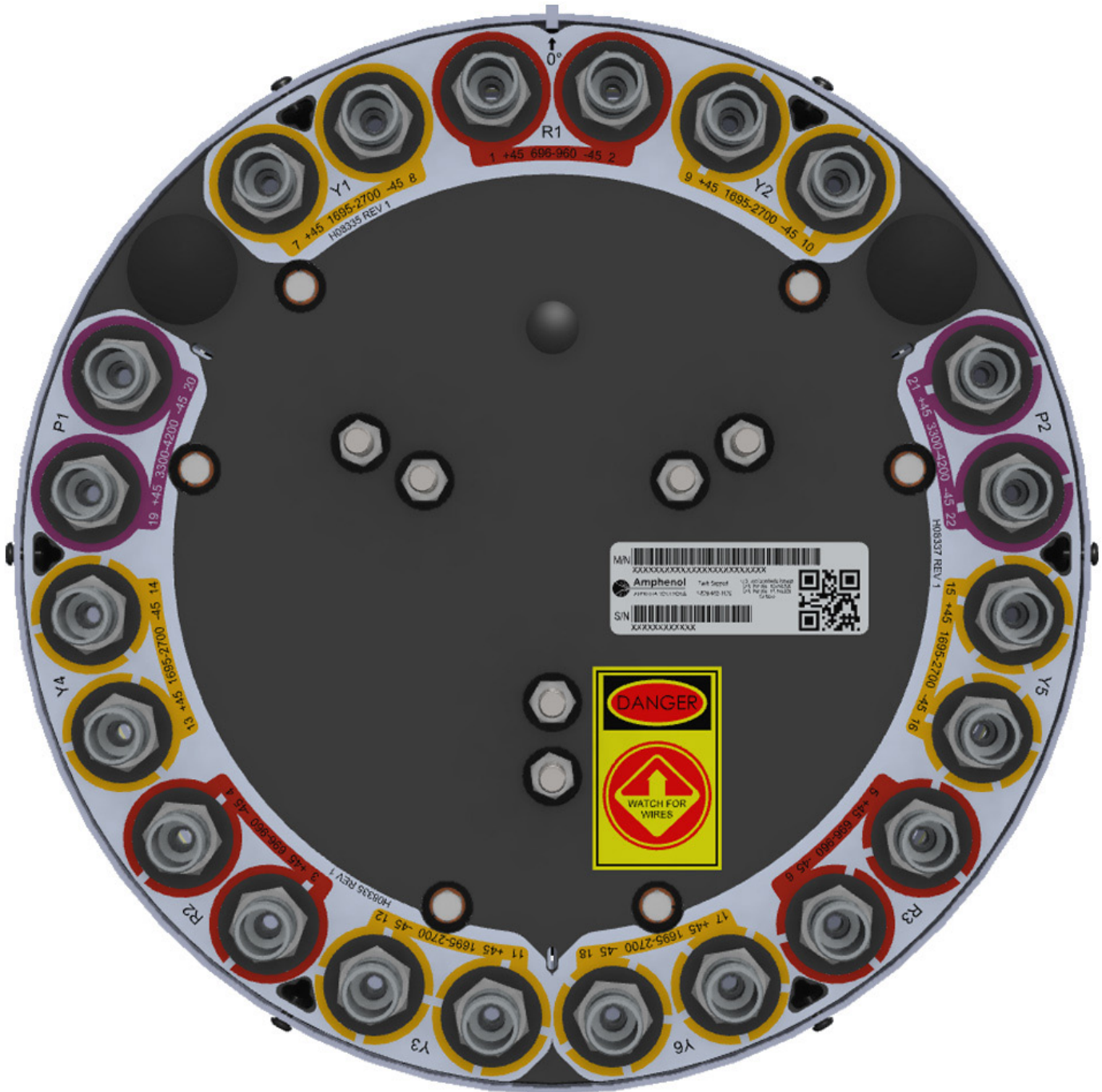
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	■ R1	1-2	(2x) 4.3-10 Female
	■ R2	3-4	(2x) 4.3-10 Female
	■ R3	5-6	(2x) 4.3-10 Female
1695-2700 MHz	■ Y1	7-8	(2x) 4.3-10 Female
	■ Y3	11-12	(2x) 4.3-10 Female
	■ Y5	15-16	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	9-10	(2x) 4.3-10 Female
	■ Y4	13-14	(2x) 4.3-10 Female
	■ Y6	17-18	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	19-20	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	21-22	(2x) 4.3-10 Female



The illustration is not shown to scale.

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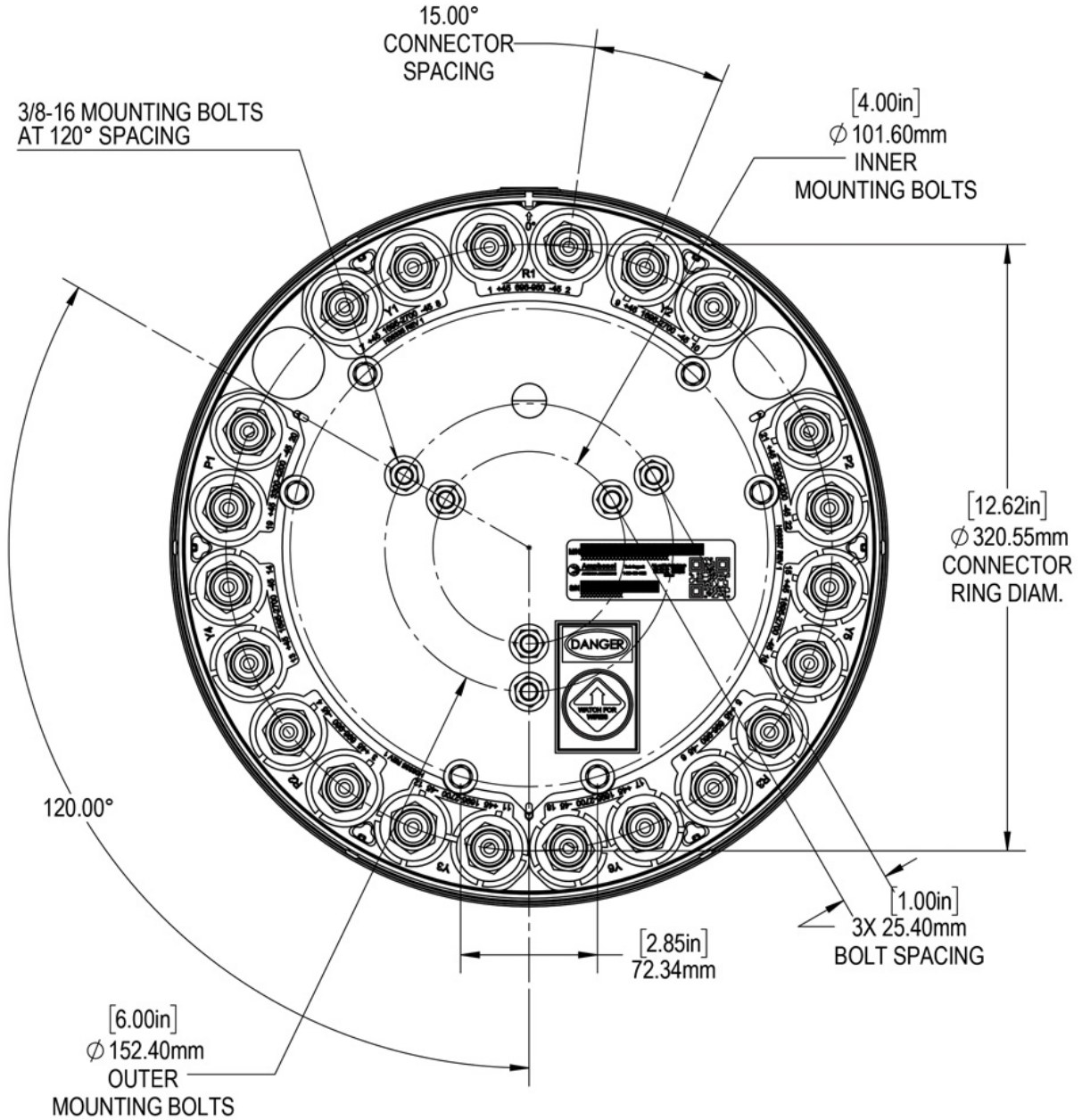
BOTTOM VIEW - LABELING



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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	 <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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C2U2VTSP1X06Fwxy_s4

HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

NUMBER OF BANDS & OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BMWDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
C	2U	2V	T	SP1	X	06	F	wxy	s	4	BK BR
(1x) 696-960	(2x) 1695-2700	(2x) 3300-4200	Tri-Sector	Sector & Omni Combination	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

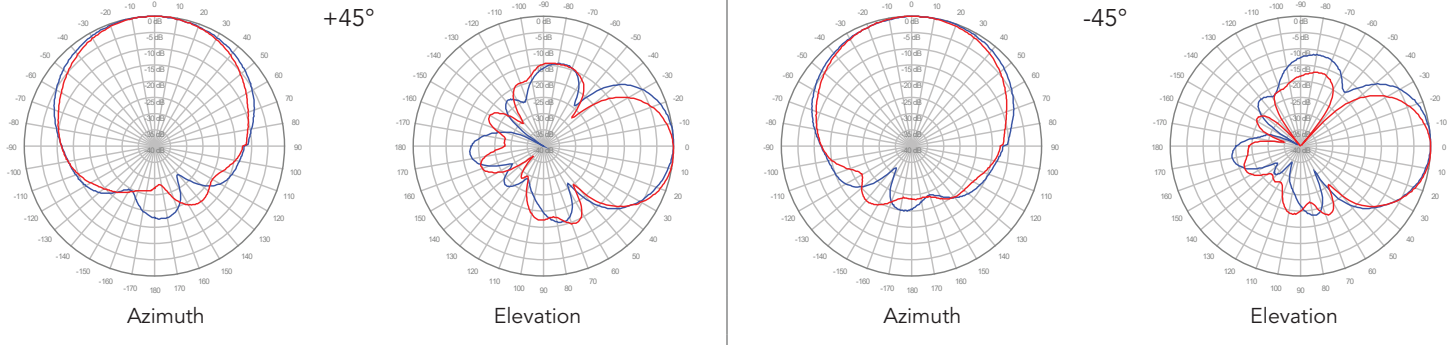
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			ANTENNA MODEL
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	
Grey RAL 7035	0°	2°	6°	C2U2VTSP1X06F026s4
	0°	4°	6°	C2U2VTSP1X06F046s4
	0°	6°	6°	C2U2VTSP1X06F066s4
Black RAL 9011	0°	2°	6°	C2U2VTSP1X06F026s4BK
	0°	4°	6°	C2U2VTSP1X06F046s4BK
	0°	6°	6°	C2U2VTSP1X06F066s4BK
Brown RAL 8022	0°	2°	6°	C2U2VTSP1X06F026s4BR
	0°	4°	6°	C2U2VTSP1X06F046s4BR
	0°	6°	6°	C2U2VTSP1X06F066s4BR

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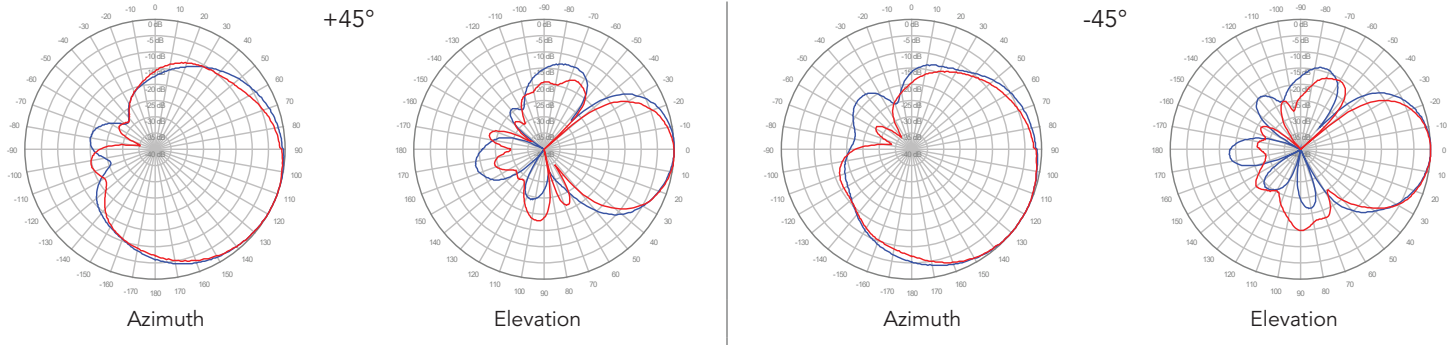
750 MHz ————
850 MHz ————

C2U2VTSP1X06Fwxys4

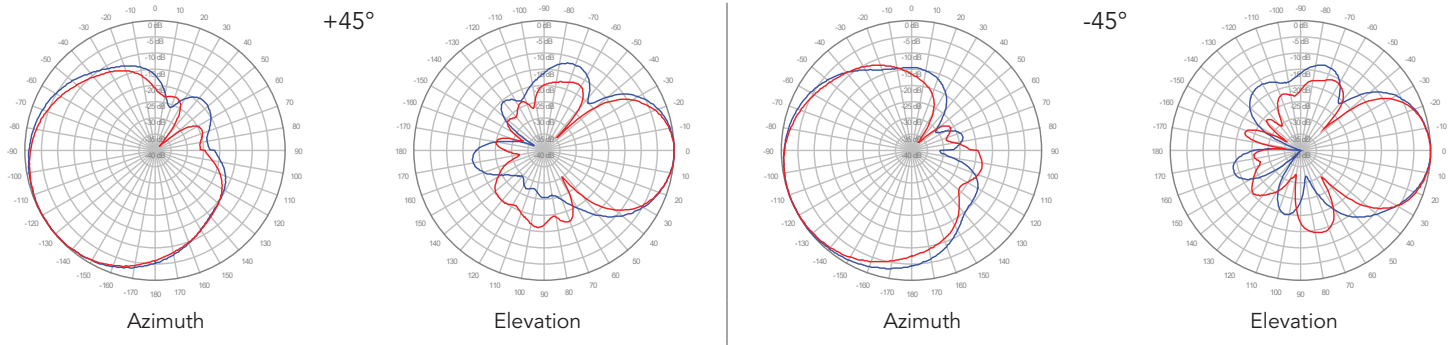
R1, 0° TILT



R2, 0° TILT



R3, 0° TILT

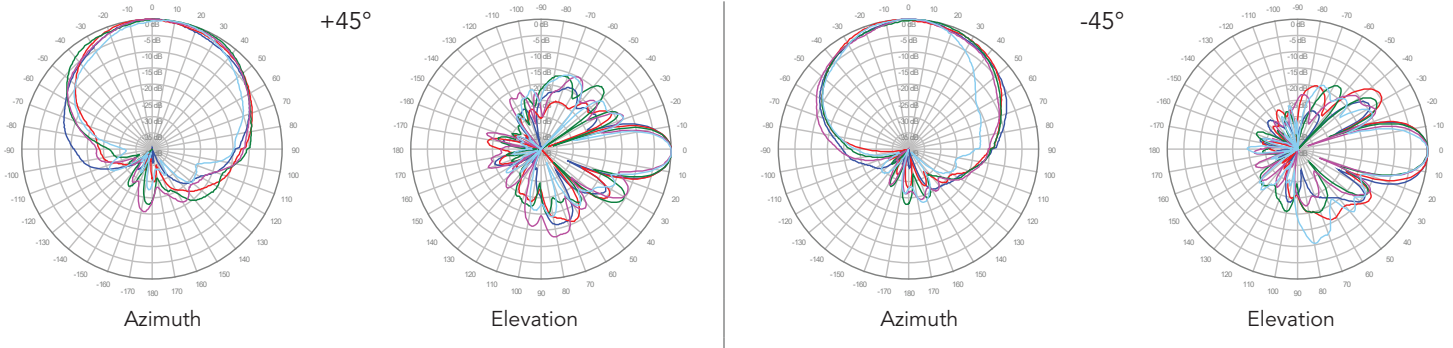


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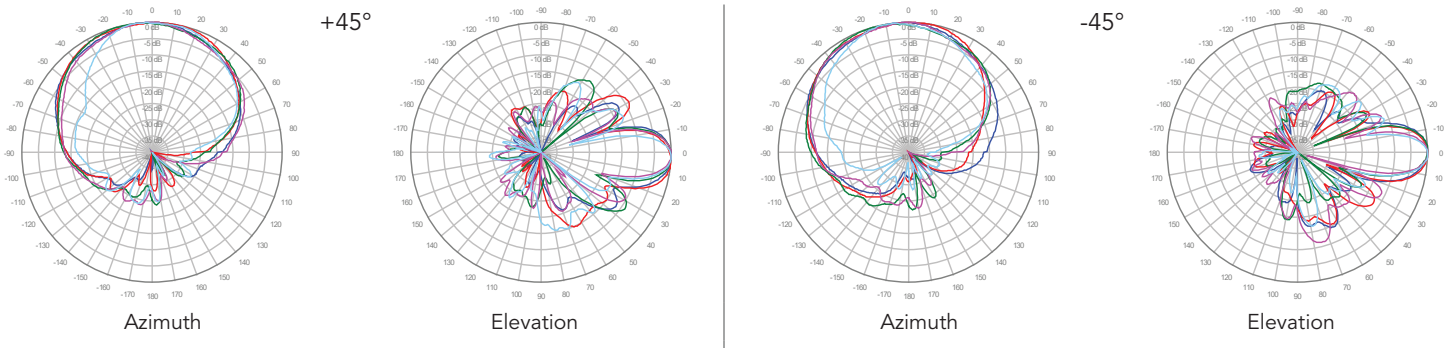
C2U2VTSP1X06Fwxys4

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

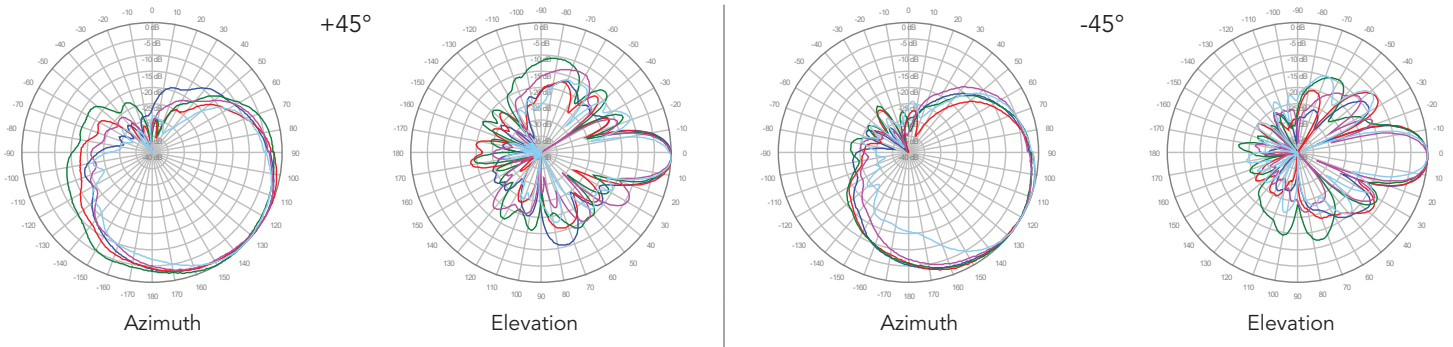
■ Y1, 2° TILT



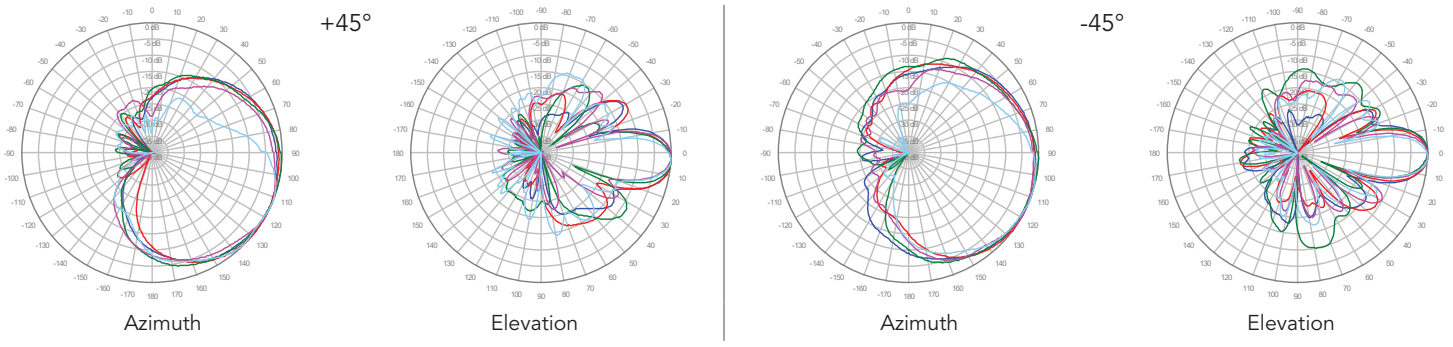
■ Y2, 2° TILT



■ Y3, 2° TILT



■ Y4, 2° TILT

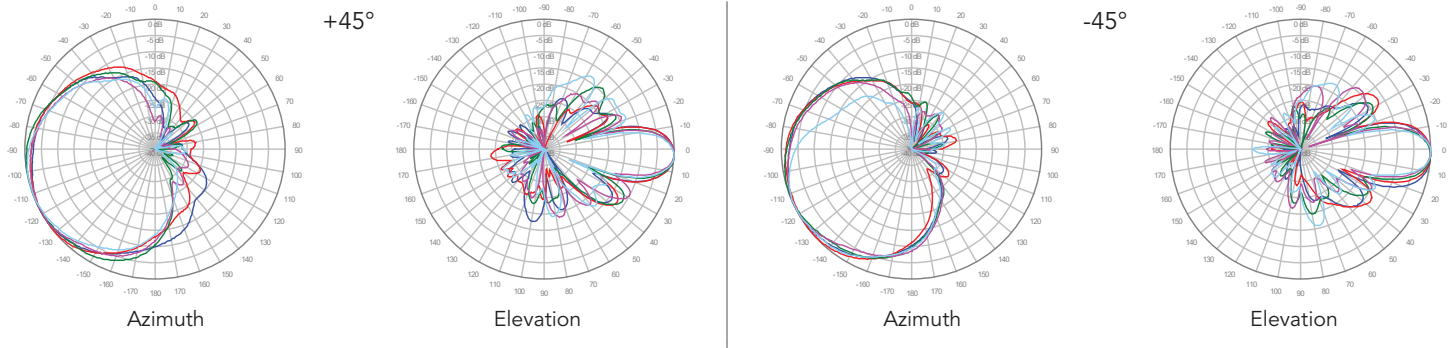


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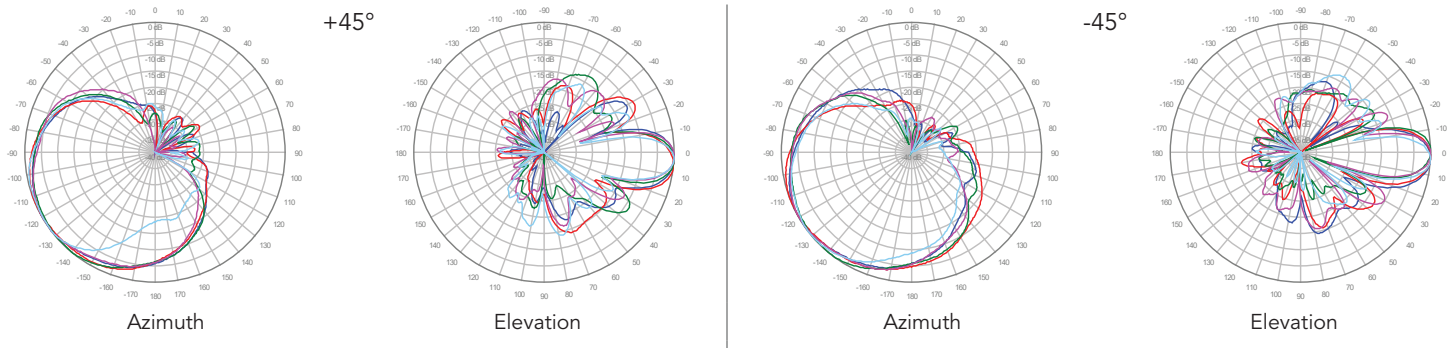
C2U2VTSP1X06Fwxys4

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

■ Y5, 2° TILT

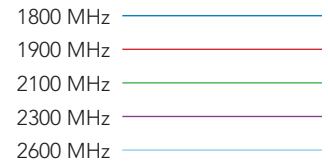


■ Y6, 2° TILT

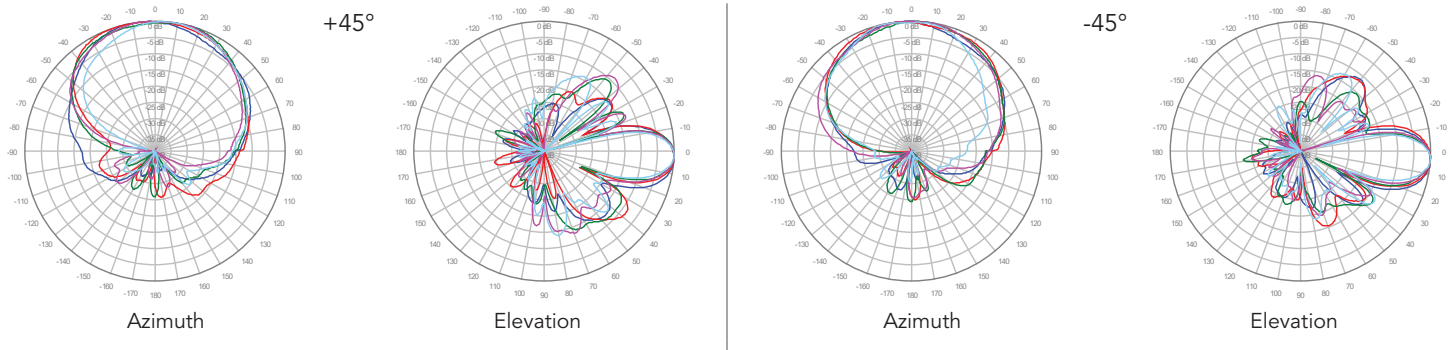


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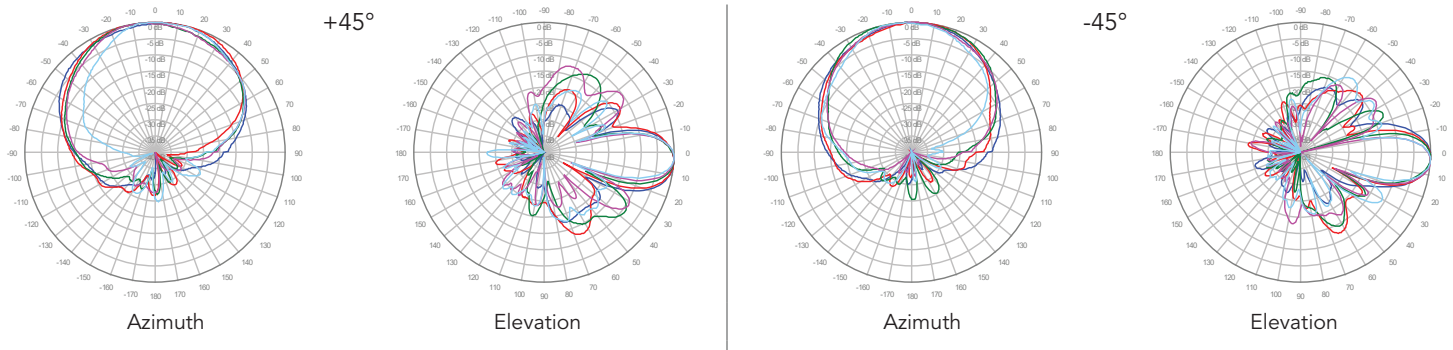
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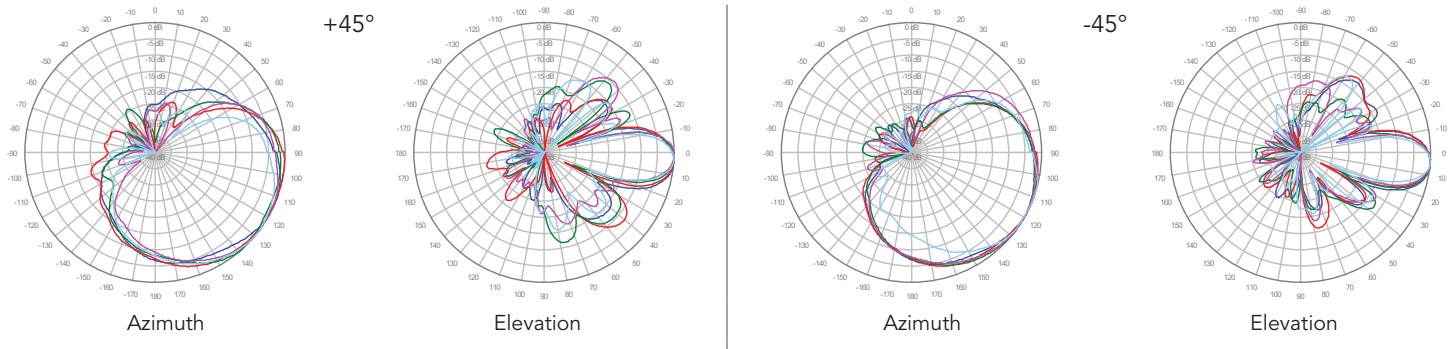
Y1, 4° TILT



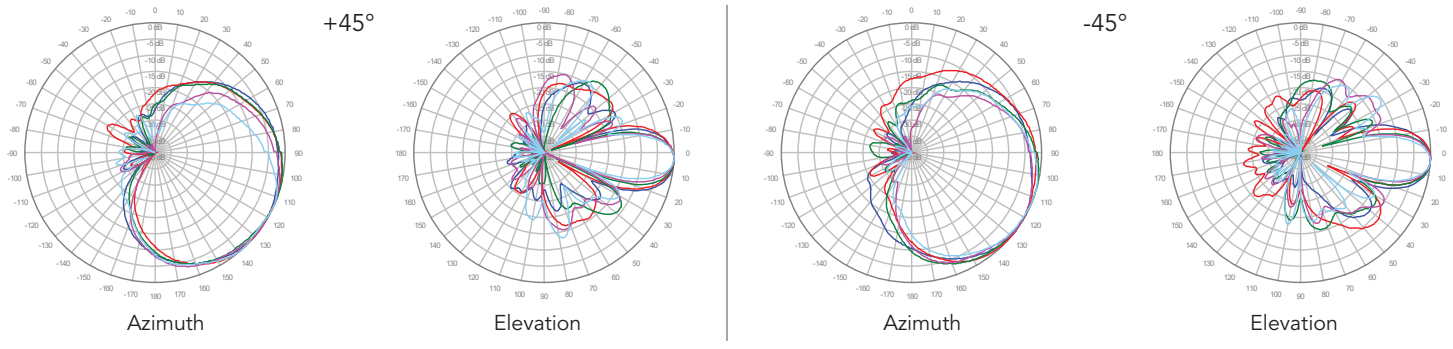
Y2, 4° TILT



Y3, 4° TILT



Y4, 4° TILT

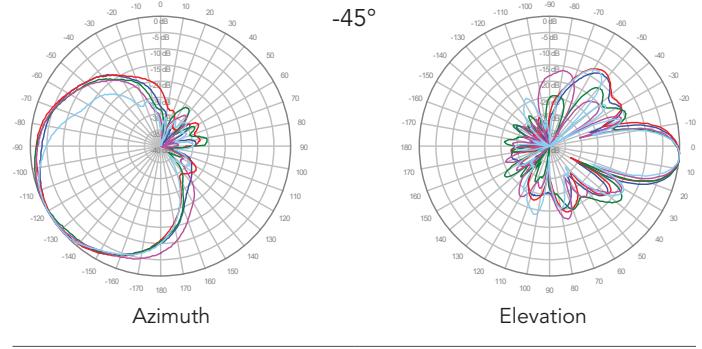
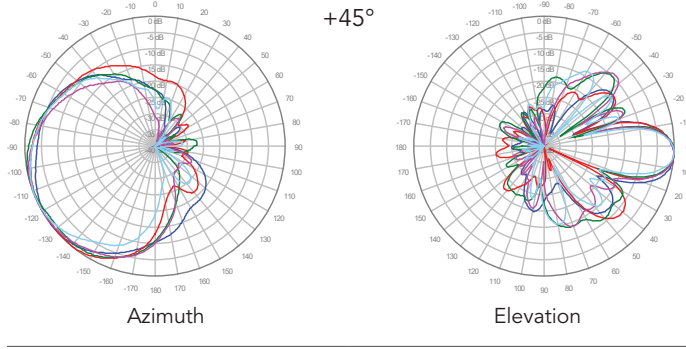


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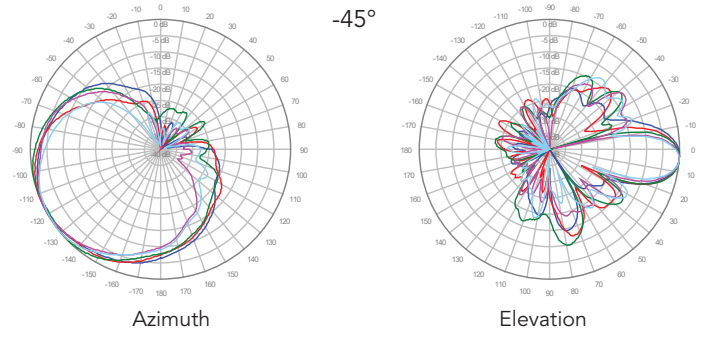
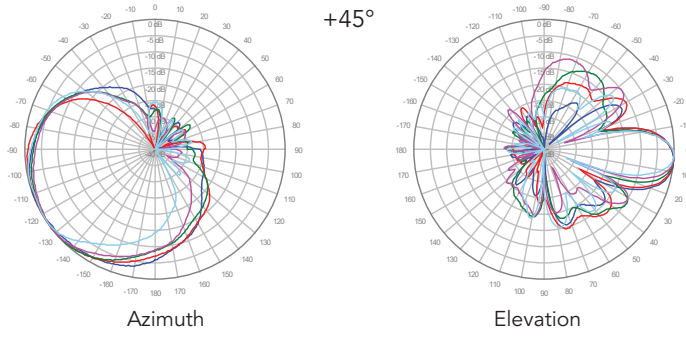
C2U2VTSP1X06Fwxys4

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

■ Y5, 4° TILT



■ Y6, 4° TILT

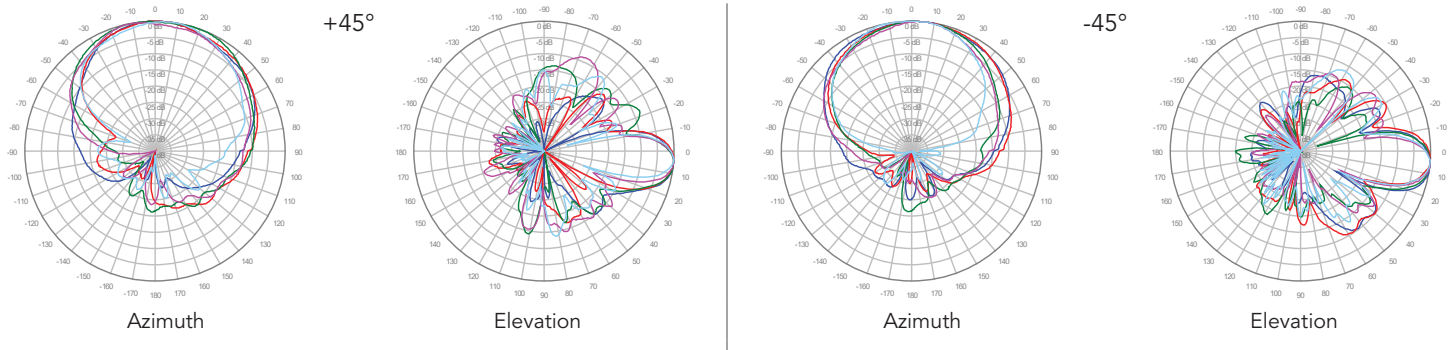


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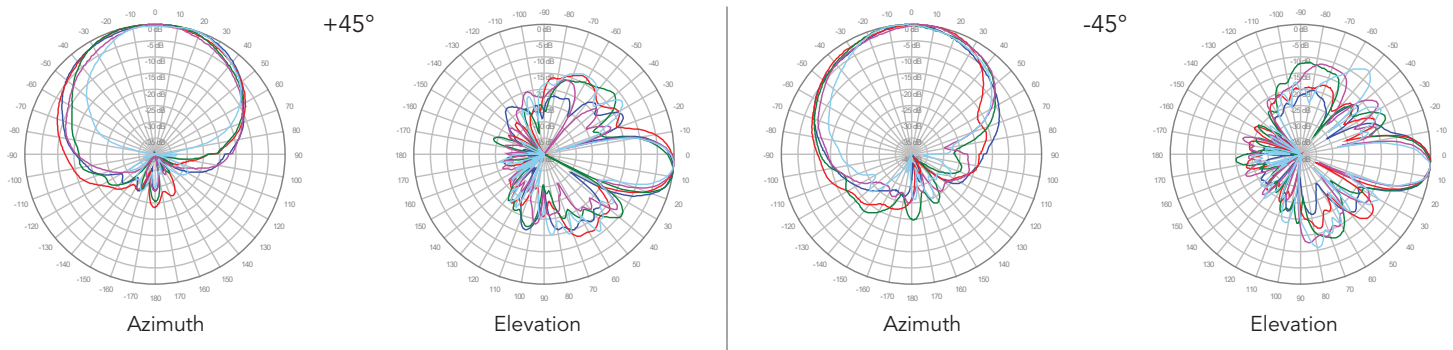
C2U2VTSP1X06Fwxys4

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

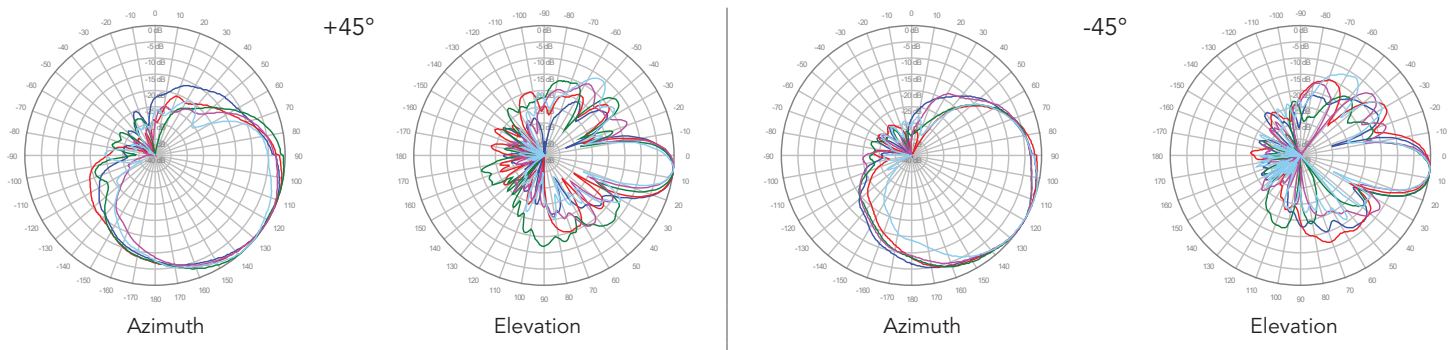
Y1, 6° TILT



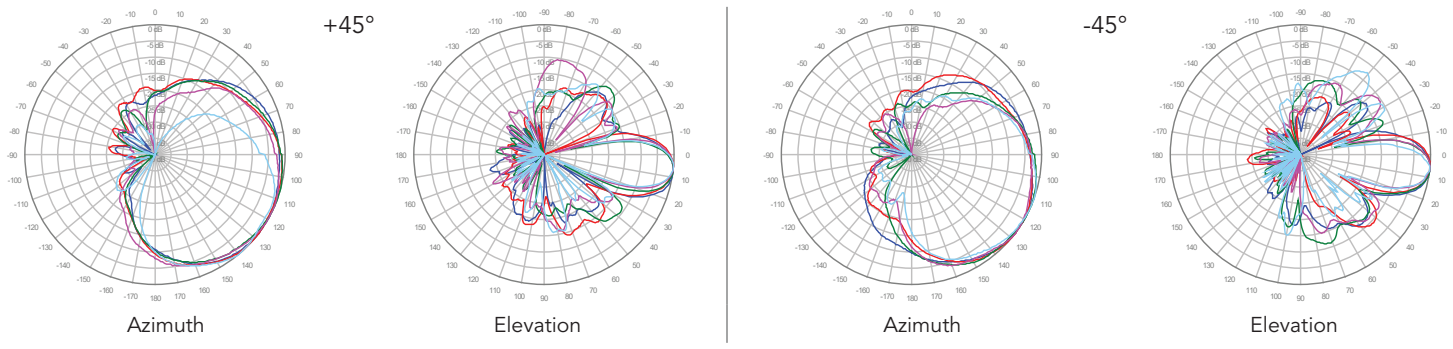
Y2, 6° TILT



Y3, 6° TILT



Y4, 6° TILT

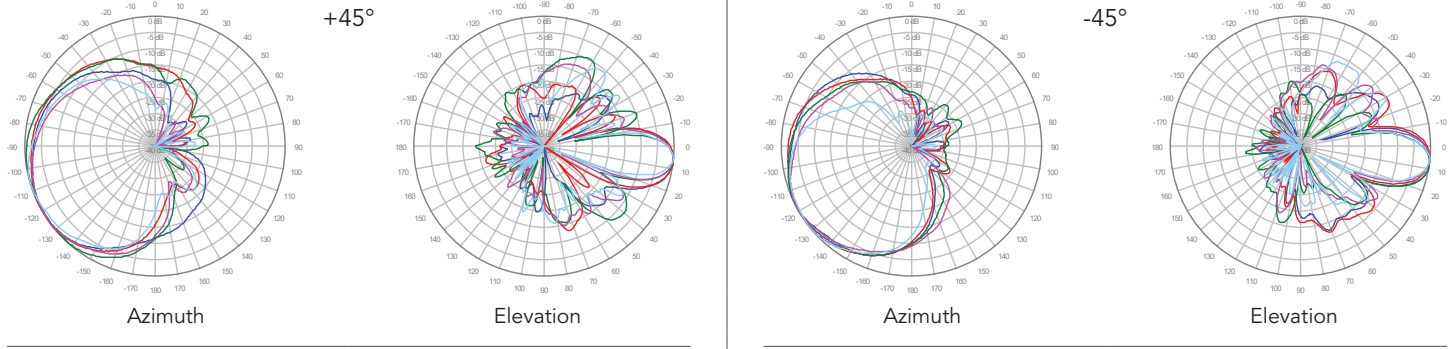


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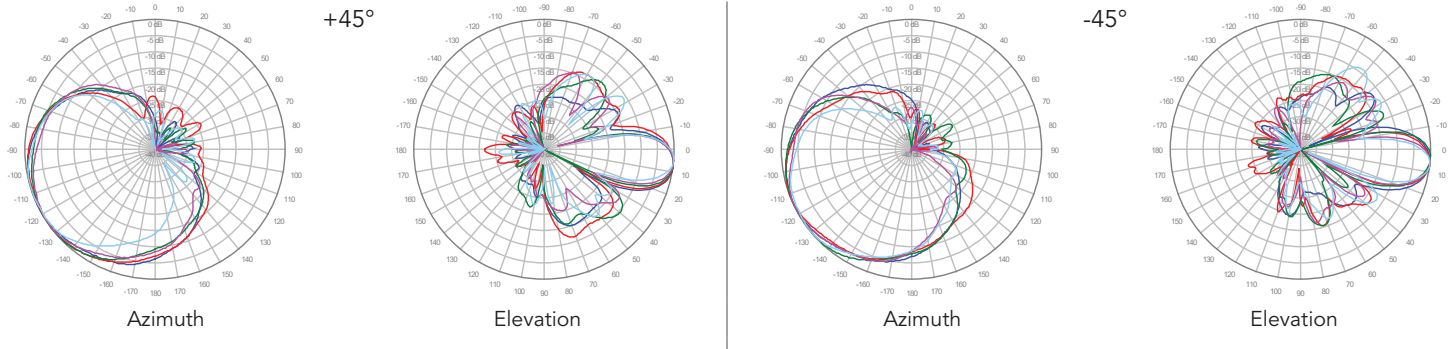
C2U2VTSP1X06Fwxys4

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

■ Y5, 6° TILT



■ Y6, 6° TILT

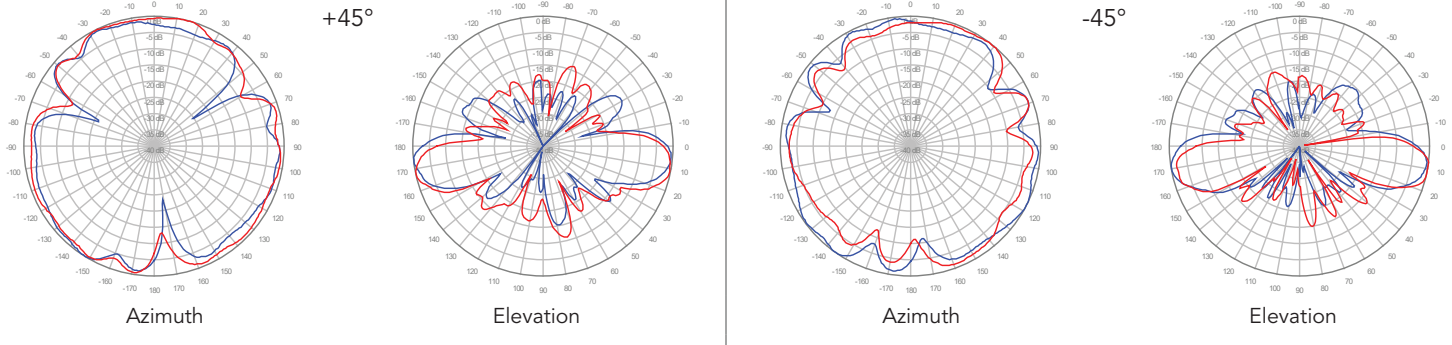


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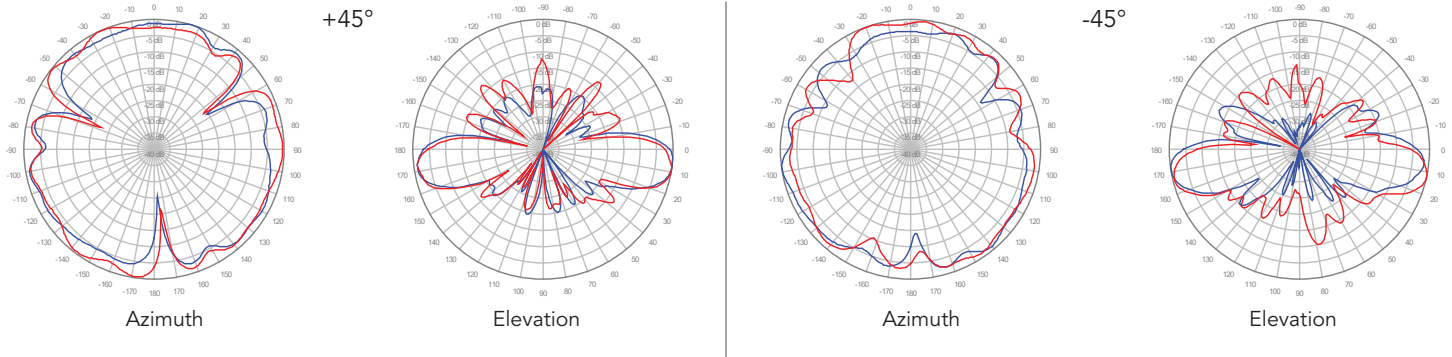
3600 MHz ————
 4000 MHz ————

C2U2VTSP1X06Fwxys4

■ P1, 6° TILT



■ P2, 6° TILT



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