

## C2U2VT070X06Fwxys5

### Features

- 3-sector, clover-shape configuration with 30 connectors
- Improvements in gain, port isolation and VSWR
- 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 ■ P3 ■ P4 ■ P5 ■ P6
	Connector	6 PORTS	12 PORTS	12 PORTS
	Polarization	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	85°	65°	80°
	Electrical Downtilt	0°	6°	6°
	Configuration	3-SECTOR (CLOVER-SHAPE) CONFIGURATION		
	Maximum Continuous Power Per Port @ 50° C (122° F)	300 WATTS	300 WATTS	100 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	6600 WATTS		
	Total Connector Count	30 PORTS		
	Connector Type	4.3-10 FEMALE		
	Dimensions	609 x Ø371 mm (23.9 x Ø14.6 in)		
	Radome Color Options	GREY, BROWN or BLACK		

### ELECTRICAL SPECIFICATIONS

■ R1 ■ R2 ■ R3

Frequency Range		MHz	(1x) 696-960	
Frequency Sub-Range		MHz	696-806	806-960
Polarization		---	±45°	
Gain	BASTA	dBi	9.1 ± 0.9	9.3 ± 0.8
	MAX	dBi	10.0	10.1
Azimuth Beamwidth (3 dB)		degrees	88.9° ± 8.9°	83.4° ± 9.1°
Elevation Beamwidth (3 dB)		degrees	43.0° ± 2.0°	40.5° ± 5.6°
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	
Isolation	Intraband	dB	25	
	Interband	dB	28	

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### ELECTRICAL SPECIFICATIONS

■ 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	---	(2x) $\pm 45^\circ$			
Gain	BASTA	dBi	$12.0 \pm 0.9$	$11.9 \pm 0.9$	$12.6 \pm 1.2$
	MAX	dBi	12.9	12.8	13.8
Azimuth Beamwidth (3 dB)	degrees	$59.2^\circ \pm 8.6^\circ$	$69.2^\circ \pm 8.8^\circ$	$70.1^\circ \pm 7.5^\circ$	$58.8^\circ \pm 6.8^\circ$
Elevation Beamwidth (3 dB)	degrees	$21.7^\circ \pm 1.9^\circ$	$20.4^\circ \pm 1.3^\circ$	$19.3^\circ \pm 1.9^\circ$	$15.9^\circ \pm 1.7^\circ$
Electrical Downtilt	degrees	(x) $6^\circ$			
Impedance	Ohms	50 $\Omega$			
VSWR	---	1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBc	-153			
Upper Sidelobe Suppression	dB	> 12			
Isolation	Intraband	dB	25		
	Interband	dB	28		

### ELECTRICAL SPECIFICATIONS

■ P1 ■ P2 ■ P3 ■ P4 ■ P5 ■ P6

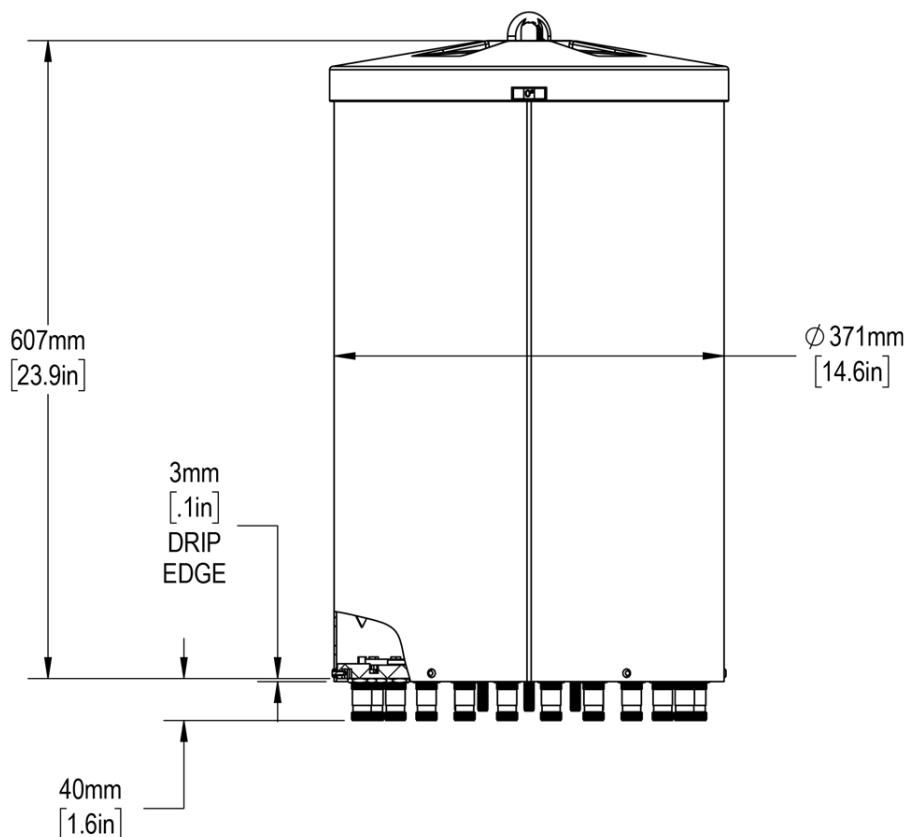
Frequency Range		MHz	(2x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(2x) ±45°		
Gain	BASTA	dBi	11.8 ± 0.5	12.3 ± 0.7	13.1 ± 0.6
	MAX	dBi	12.3	13.0	13.7
Azimuth Beamwidth (3 dB)		degrees	71.1° ± 17.2°	82.3° ± 10.5°	84.8° ± 6.8°
Elevation Beamwidth (3 dB)		degrees	20.8° ± 2.4°	19.7° ± 1.7°	24.8° ± 47.4°
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	> 15		
Isolation	Intraband	dB	25		
	Interband	dB	28		

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### MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	609 (23.9)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	11.3 (25)
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	---	(30x) 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

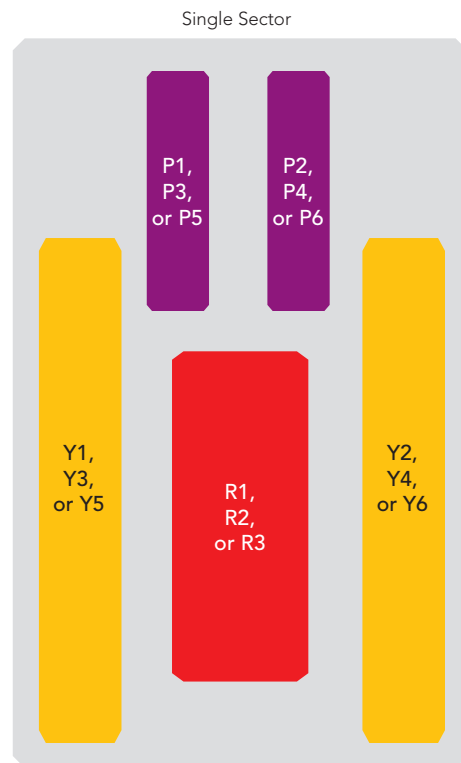


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### ARRAY LAYOUT Topology

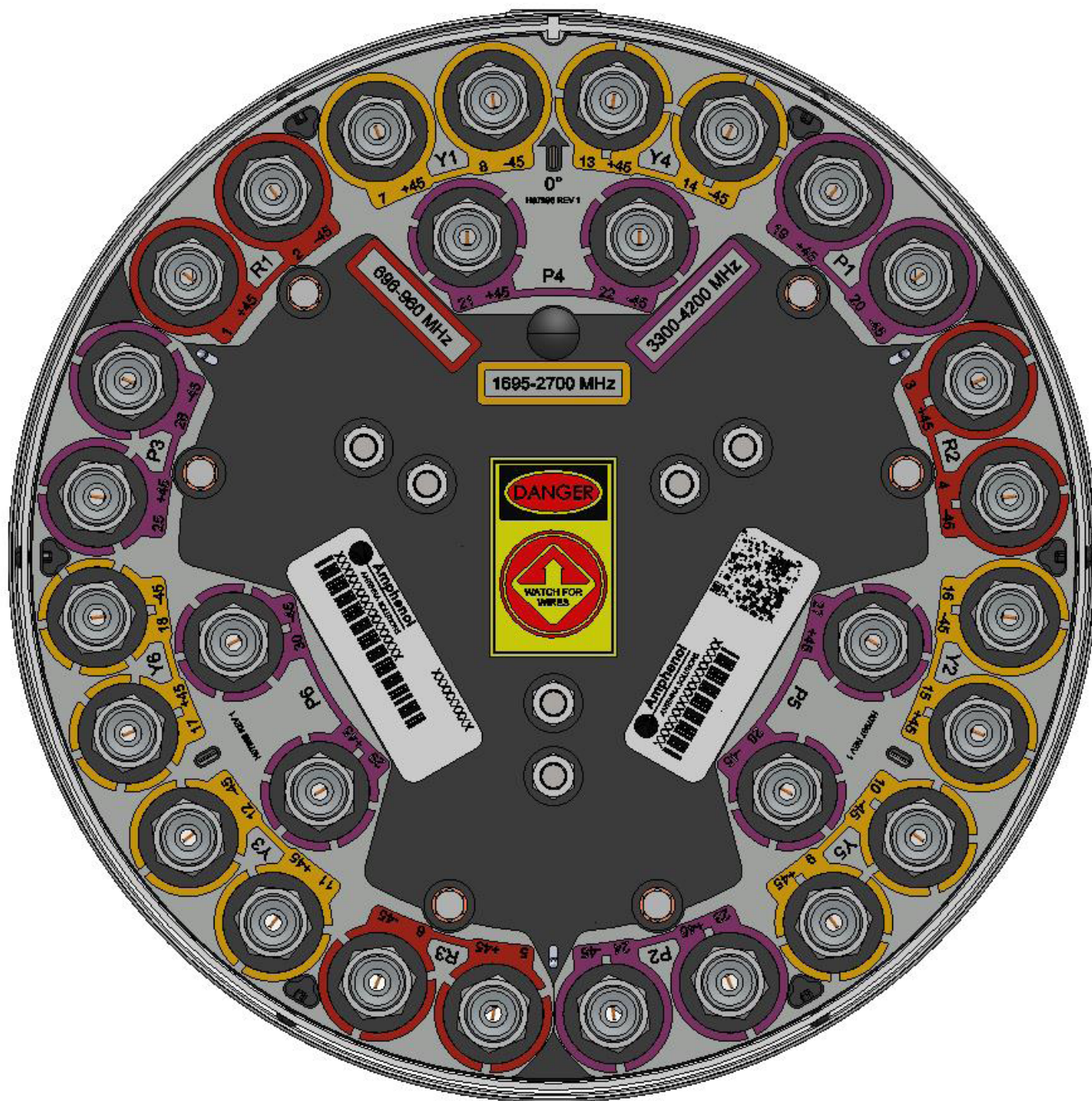
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	<span style="color: red;">■</span> R1	1-2	(2x) 4.3-10 Female
696-960 MHz	<span style="color: red;">■</span> R2	3-4	(2x) 4.3-10 Female
696-960 MHz	<span style="color: red;">■</span> R3	5-6	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y1	7-8	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y2	15-16	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y3	11-12	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y4	13-14	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y5	9-10	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y6	17-18	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P1	19-20	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P2	23-24	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P3	25-26	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P4	21-22	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P5	27-28	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P6	29-30	(2x) 4.3-10 Female



The illustration is not shown to scale.

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## BOTTOM VIEW - LABELING



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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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## C2U2VT070X06Fwxy<sup>s</sup>5

### HOW TO READ THE MODEL NUMBER Each letter and number has meaning.

NUMBER OF BANDS and OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BMWIDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
C	2U	2V	T	070	X	06	F	wxy	s	5	BK BR
(1x) 696-960	(2x) 1695-2700	(2x) 3300-4200	Tri-Sector	70°	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	5th 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.

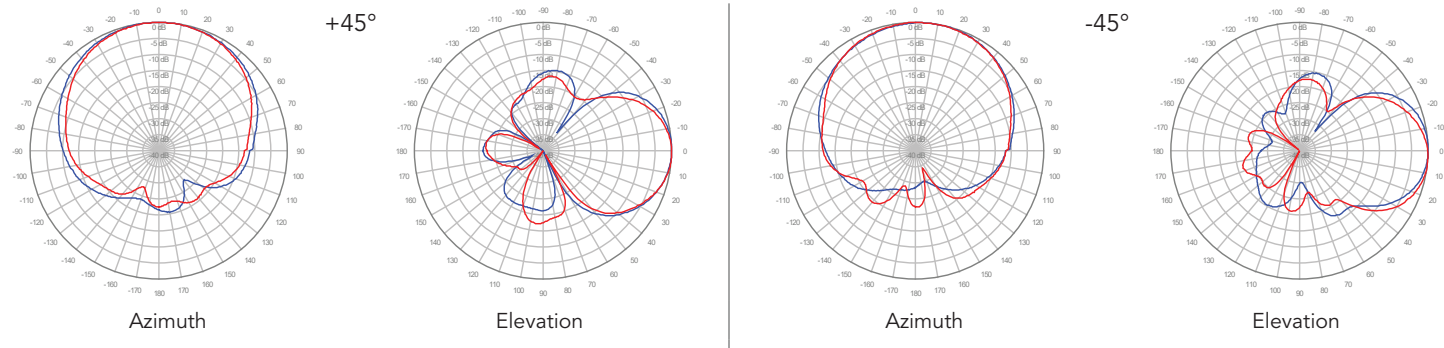
### ORDERING OPTIONS Select from the following ordering options

SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			MODEL NUMBER
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	
Grey Pantone 420 C	0°	6°	6°	C2U2VT070X06F066s5
Brown Pantone 476 C	0°	6°	6°	C2U2VT070X06F066s5BR
Black RAL 9011	0°	6°	6°	C2U2VT070X06F066s5BK

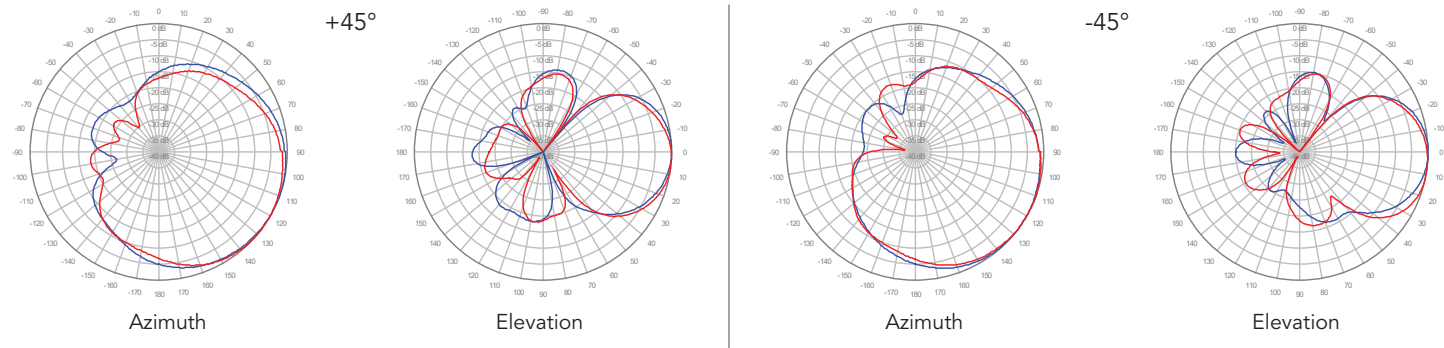
C2U2VT070X06Fwxys5

750 MHz ————  
850 MHz ————

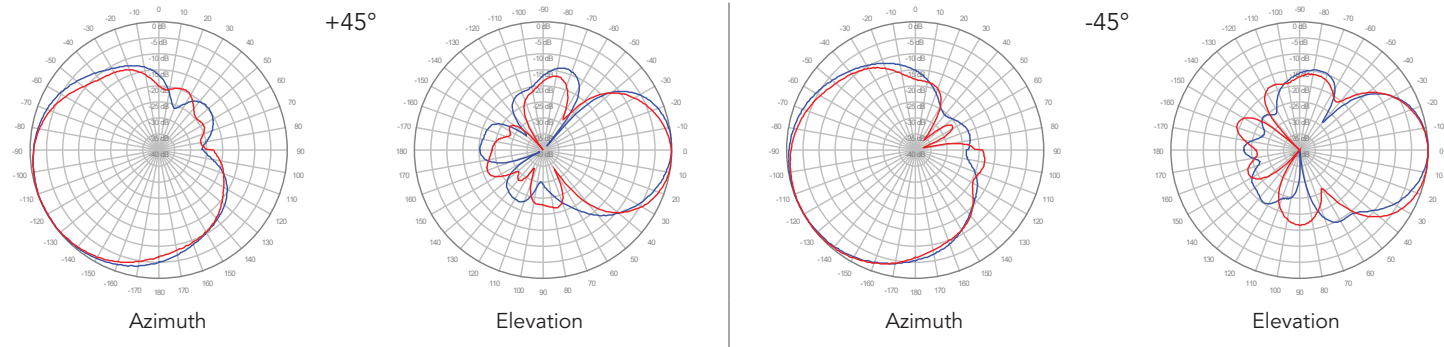
**R1, 0° TILT**



**R2, 0° TILT**



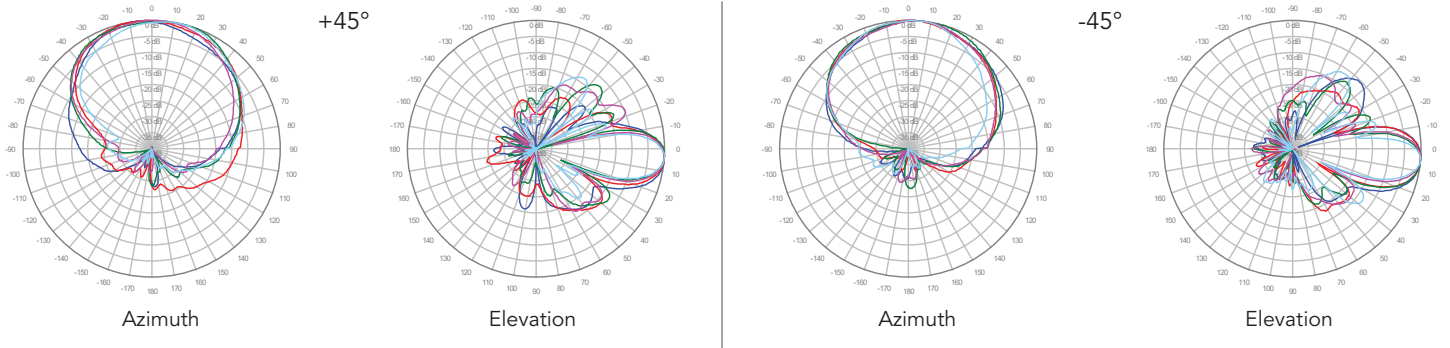
**R3, 0° TILT**



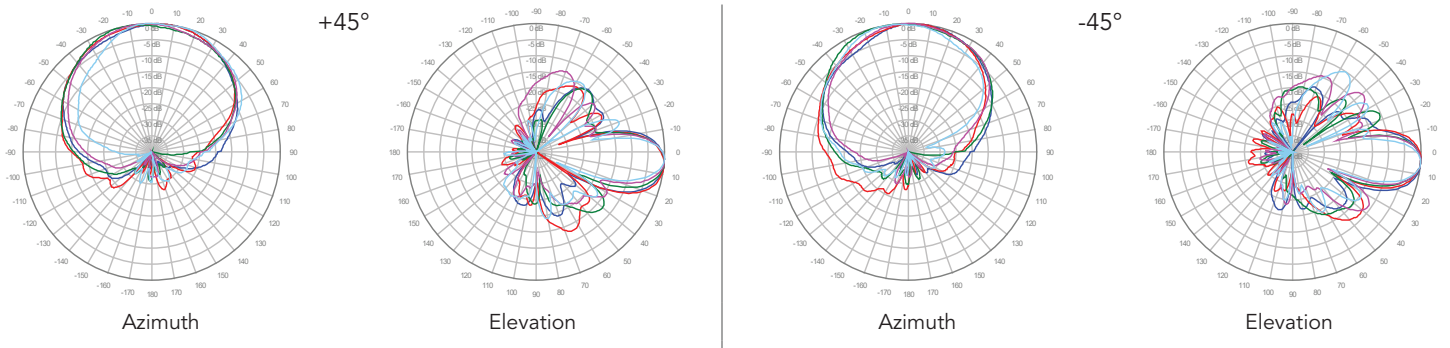
C2U2VT070X06Fwxys5

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

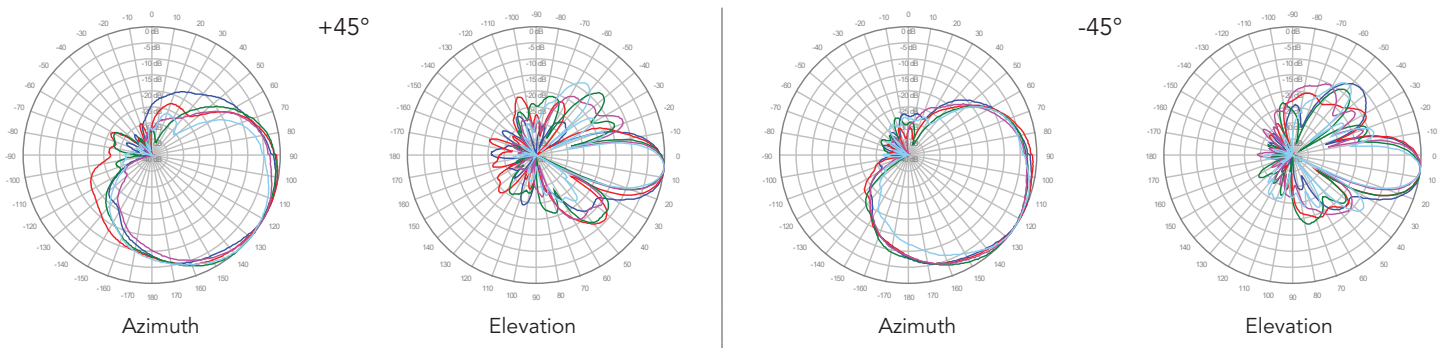
■ Y1, 6° TILT



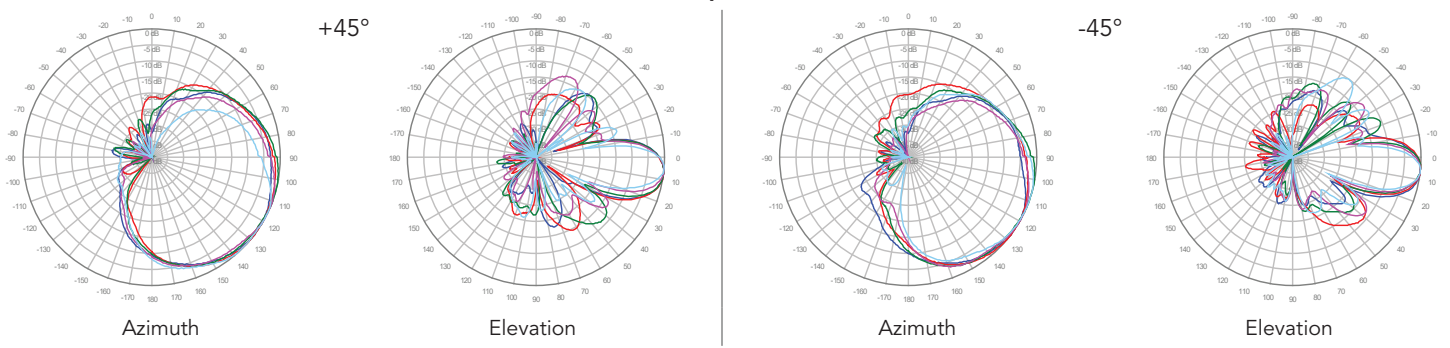
■ Y2, 6° TILT



■ Y3, 6° TILT



■ Y4, 6° TILT

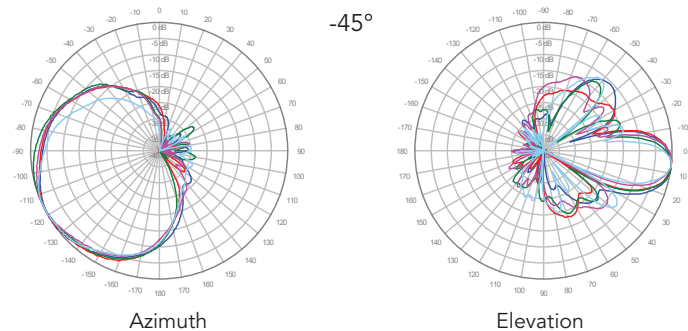
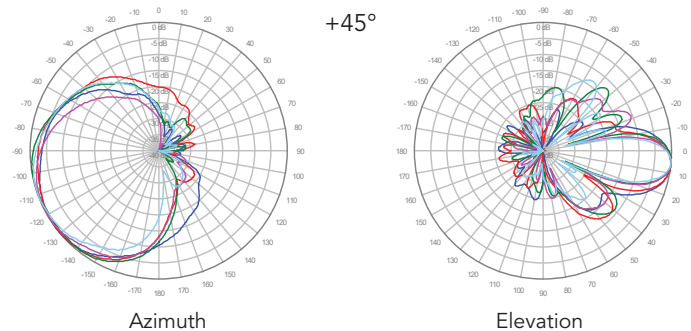


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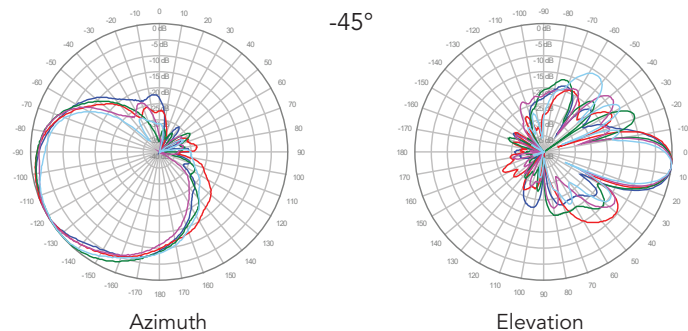
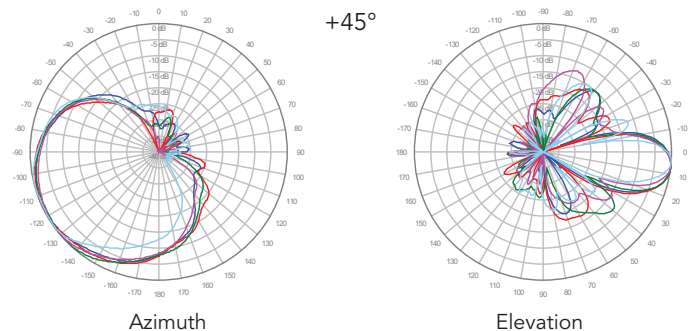
C2U2VT070X06Fwxys5

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

■ Y5, 6° TILT



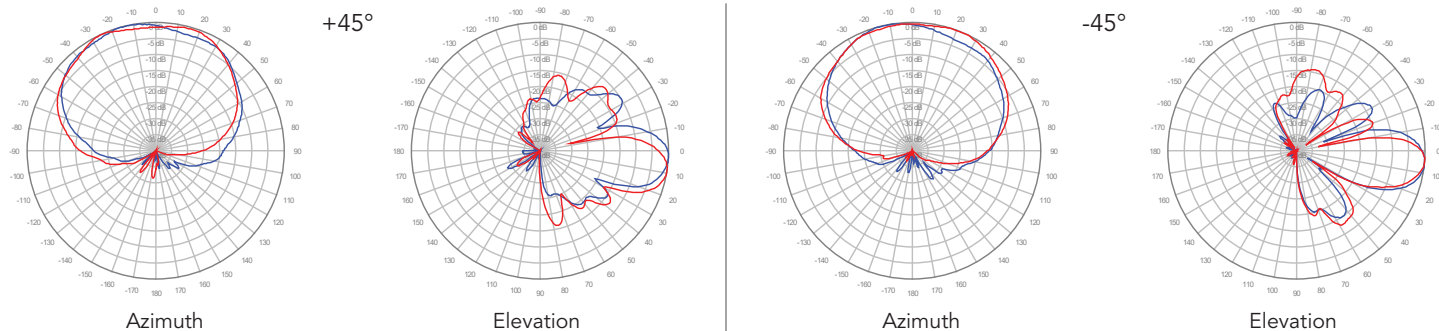
■ Y6, 6° TILT



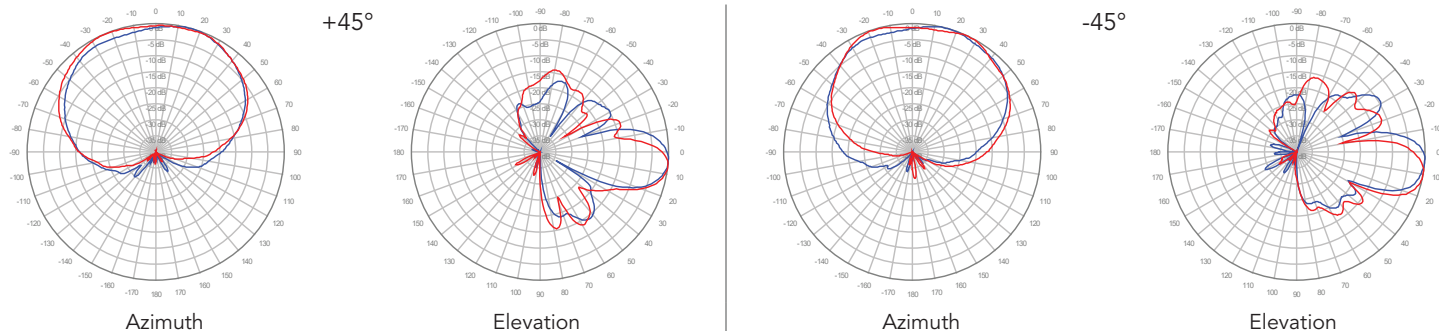
C2U2VT070X06Fwxys5

3600 MHz ————  
4000 MHz ————

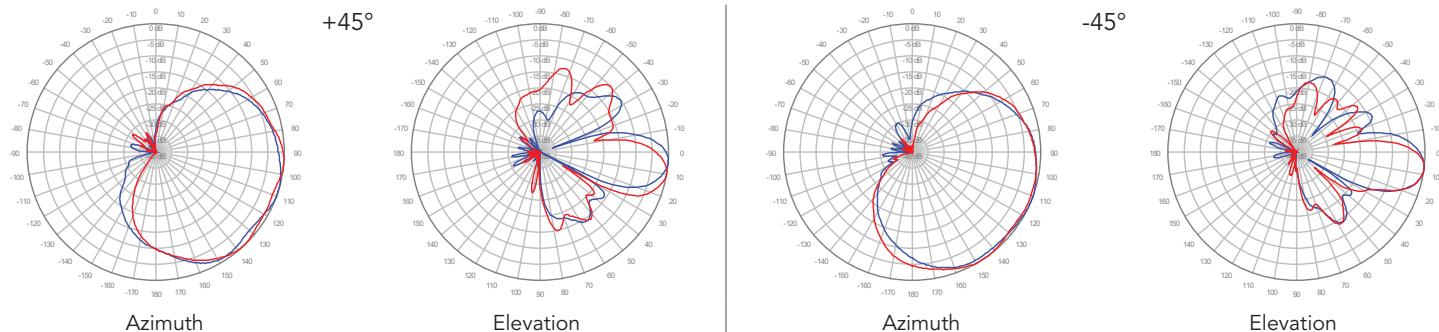
**P1, 6° TILT**



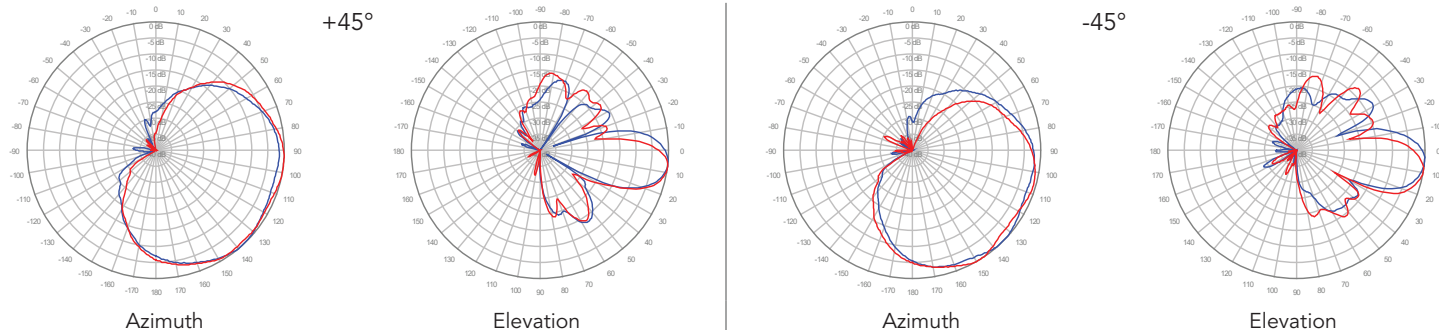
**P2, 6° TILT**



**P3, 6° TILT**



**P4, 6° TILT**

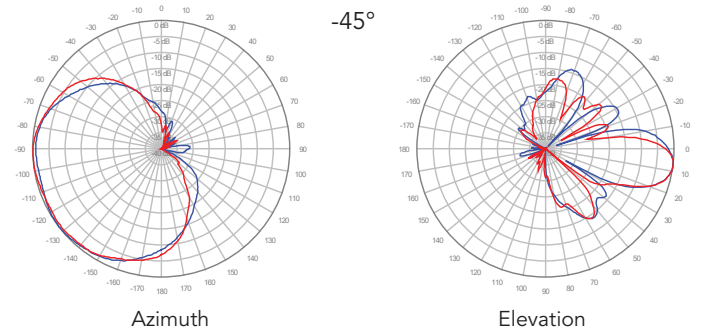
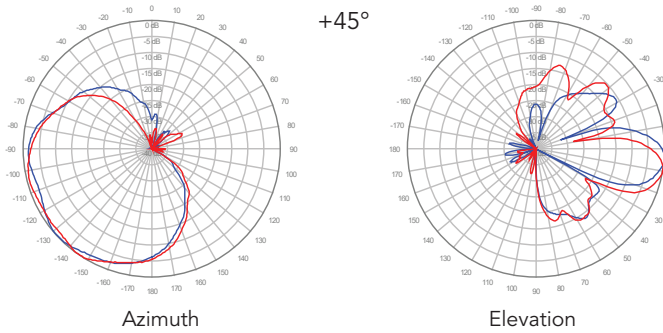


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3600 MHz ————  
4000 MHz ————

**P5, 6° TILT**



**P6, 6° TILT**

