

OMNI

18.0 IN

FIXED TILT

C2U2VT360X05Fwxys4

Features

- 18.0-inch height
- Pseudo omni configuration with 10 connectors
- 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	■ Y1 ■ Y2	■ P1 ■ P2
	Connector	2 PORTS	4 PORTS	4 PORTS
	Polarization	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°	360°
	Electrical Downtilt	0°	0°	0°
	Configuration	OMNI CONFIGURATION		
	Maximum Continuous Power Per Port @ 50° C (122° F)	300 W	300 W	100 W
	Maximum Total Continuous Power at 50° C (122° F)	2200 W		
	Connector Type	(10x) 4.3-10 FEMALE		
Dimensions	454 x Ø371 mm (18.0 x Ø14.6 in)			
Radome Color Options	GREY			

ELECTRICAL SPECIFICATIONS

■ R1

Frequency Range	MHz	(1x) 696-960	
Frequency Sub-Range	MHz	696-806	806-960
Polarization	---	±45°	
Gain	BASTA	dBi	5.7 ± 0.9
	MAX	dBi	6.6
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	39.3° ± 6.8°	35° ± 4°
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	> 23
	Interband	dB	> 25 different band

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ELECTRICAL SPECIFICATIONS

■ Y1 ■ Y2

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	7.9 ± 1.0	8.7 ± 1.3	8.8 ± 1.0	9.6 ± 1.1
	MAX	dBi	8.9	10.0	9.8	10.7
Azimuth Beamwidth (3 dB)	degrees	360°	360°	360°	360°	
Elevation Beamwidth (3 dB)	degrees	$21.2^\circ \pm 2.5^\circ$	$19.3^\circ \pm 2^\circ$	$18^\circ \pm 2.6^\circ$	$15.1^\circ \pm 2^\circ$	
Electrical Downtilt	degrees	(x) 0°				
Impedance	Ohms	50Ω				
VSWR	---	$\leq 1.5:1$				
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBc	< -153				
Upper Sidelobe Suppression	dB	> 12.8	> 14.2	> 14.4	> 14.4	
Isolation	Intraband	dB	> 23			
	Interband	dB	> 20 same band; > 20 different band			

ELECTRICAL SPECIFICATIONS

■ P1 ■ P2

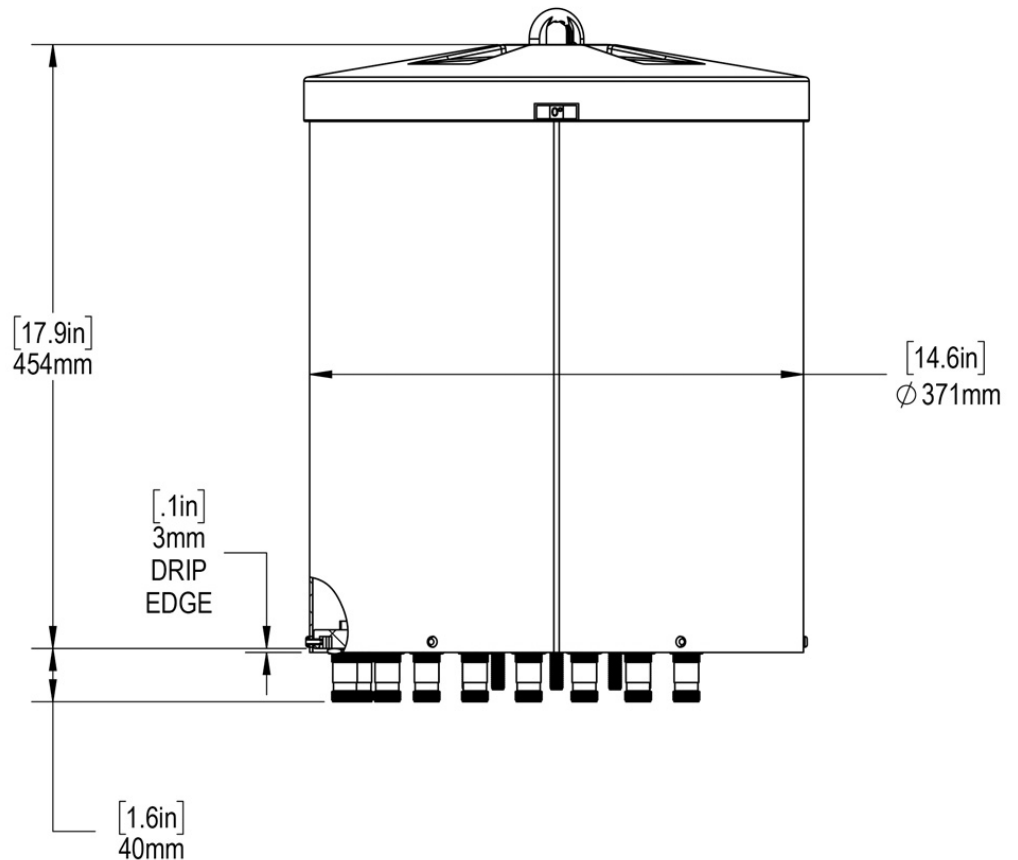
Frequency Range	MHz	(2x) 3300-4200			
Frequency Sub-Range	MHz	3300-3550	3550-3700	3700-4200	
Polarization	---	(2x) $\pm 45^\circ$			
Gain	BASTA	dBi	8.1 ± 1.2	8.8 ± 0.7	9.1 ± 1.1
	MAX	dBi	9.3	9.5	10.2
Azimuth Beamwidth (3 dB)	degrees	360°	360°	360°	
Elevation Beamwidth (3 dB)	degrees	$12.4^\circ \pm 1.3^\circ$	$11^\circ \pm 1.1^\circ$	$10.5^\circ \pm 0.9^\circ$	
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	> 12.8	> 13.8	> 13.4	
Isolation	Intraband	dB	> 25		
	Interband	dB	> 30 same band; > 28 different band		

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MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	454 (18.0)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	14 (31)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	144.7 (32.5)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m ² (ft ²)	0.17 (1.8)
Volume		m ³ (ft ³)	0.05 (1.74)
Connector	Type	---	(10x) 4.3-10 Female
	Position	---	Bottom
Radome Color		---	Grey (RAL 7035)
Lightning Protection (Grounding Type)		---	Direct Ground

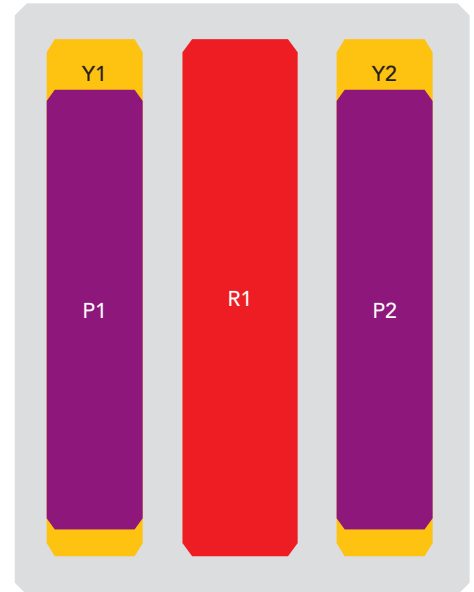


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ARRAY LAYOUT Topology

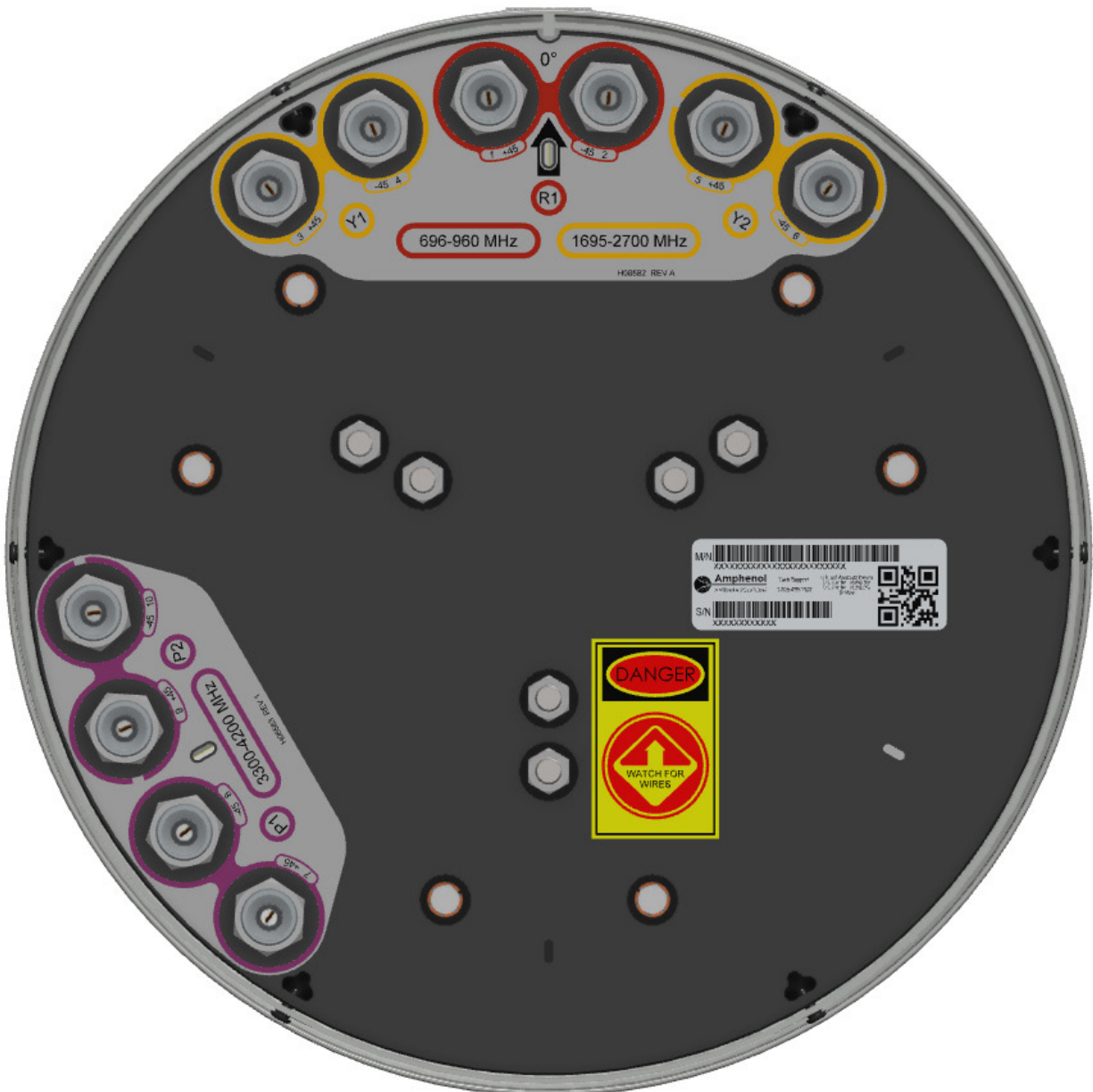
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	■ R1	1-2	(2x) 4.3-10 Female
1695-2700 MHz	■ Y1	3-4	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	5-6	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	7-8	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	9-10	(2x) 4.3-10 Female



The illustration is not shown to scale.

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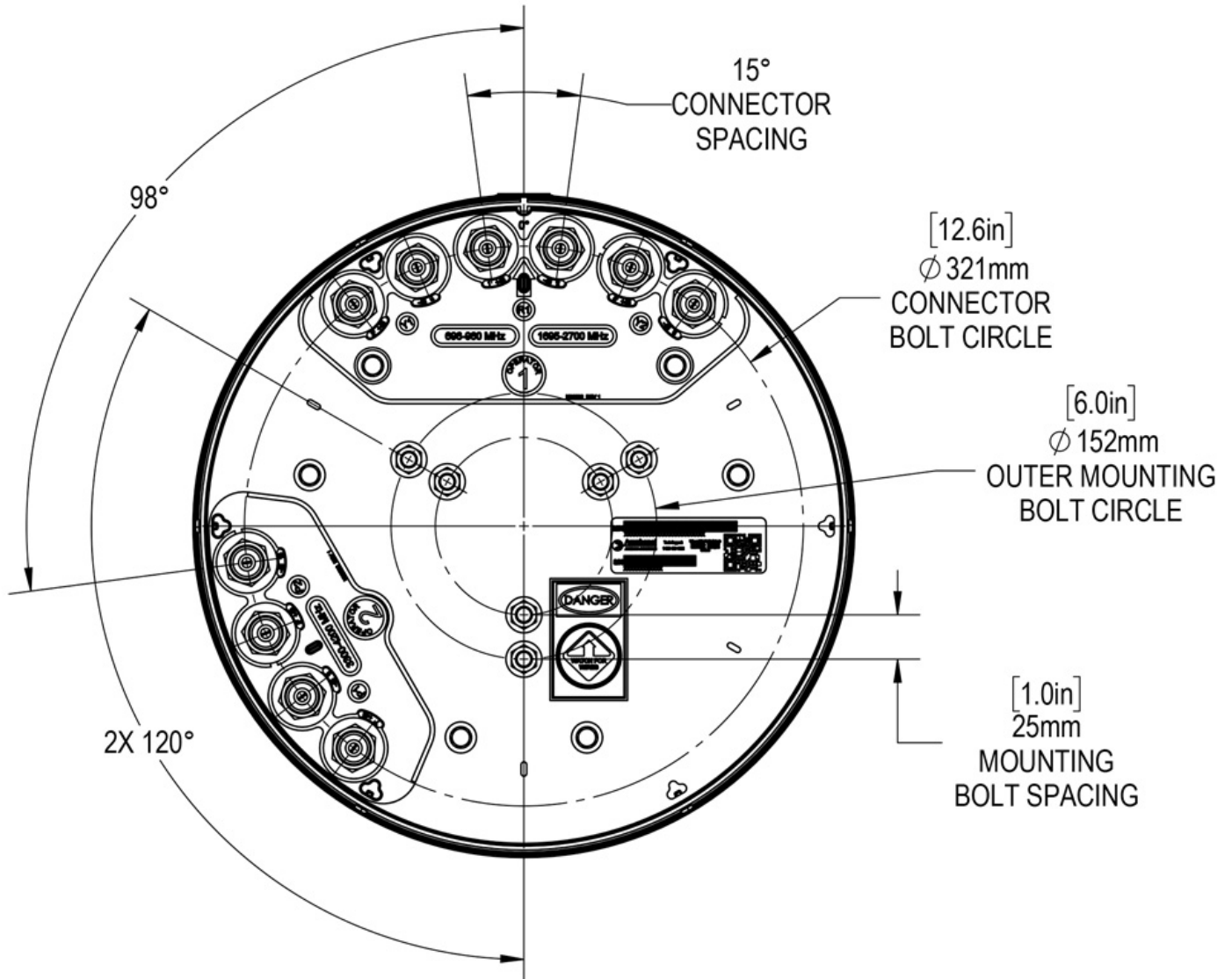
BOTTOM VIEW - LABELING



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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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HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

NUMBER OF BANDS and OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BMWDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION
C	2U	2V	T	360	X	05	F	wxy	s	4
(1x) 696-960	(2x) 1695-2700	(2x) 3300-4200	Tri-Sector	360°	XPOL	0.5 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

ORDERING OPTIONS

Select from the following ordering options

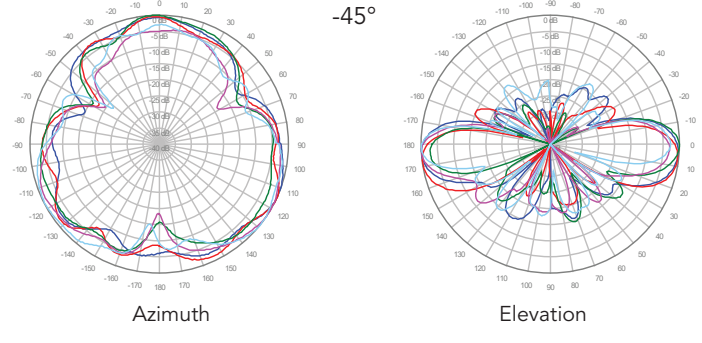
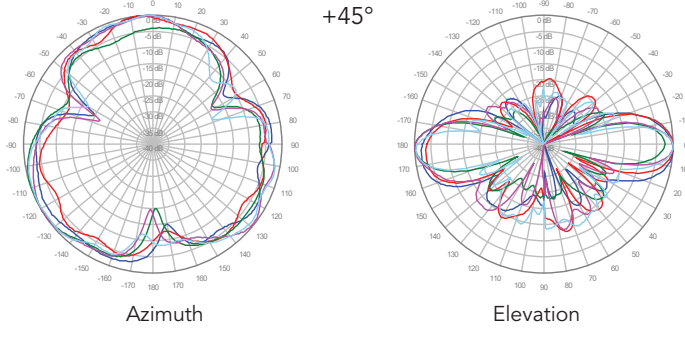
RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			MODEL NUMBER
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	
Grey RAL 7035	0°	0°	0°	C2U2VT360X05F000s4

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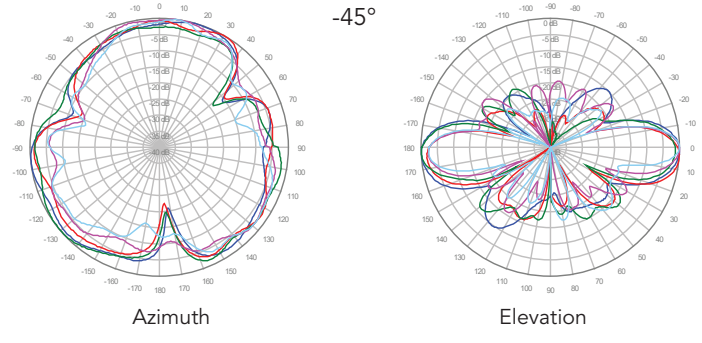
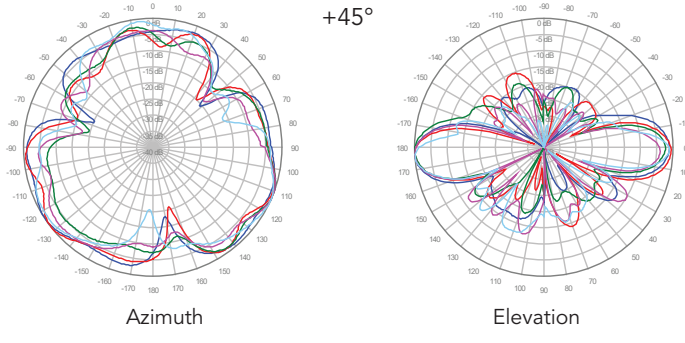
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- 1800 MHz ———
- 1900 MHz ———
- 2100 MHz ———
- 2300 MHz ———
- 2600 MHz ———

■ Y1, 0° TILT



■ Y2, 0° TILT

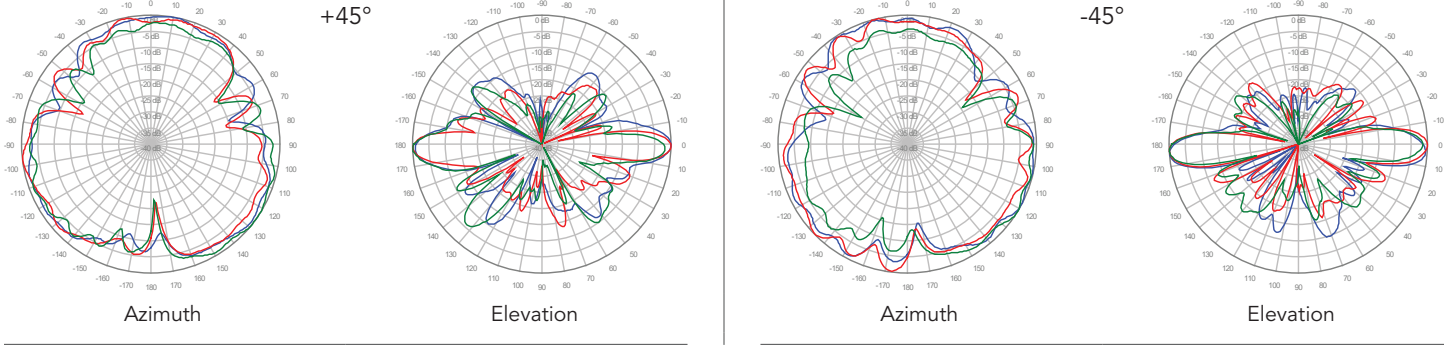


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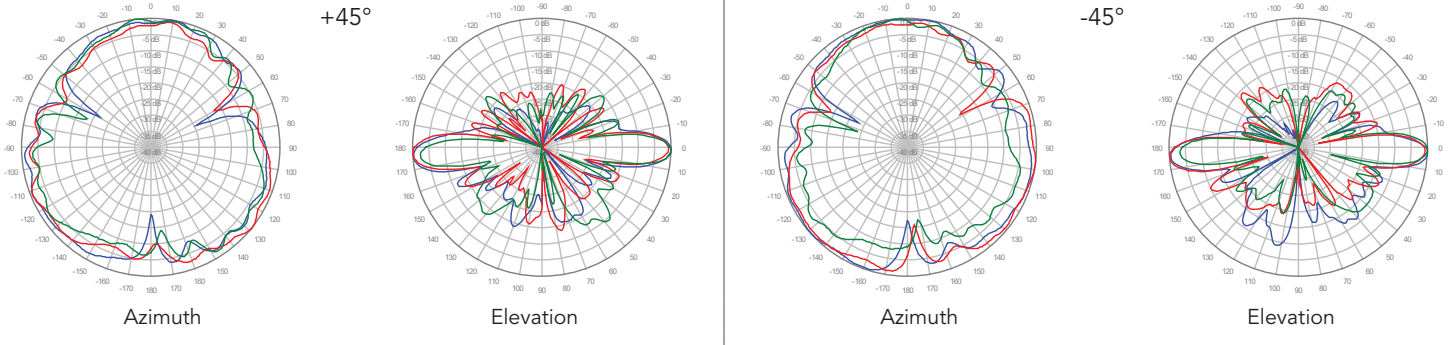
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3300 MHz ————
 3600 MHz ————
 3900 MHz ————

P1, 0° TILT



P2, 0° TILT



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