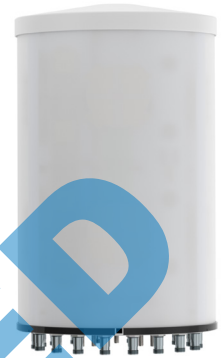











2C4U3MS070X06Fwxyso



Features

- 4G/5G 70° single sector configuration with 18 connectors
- Ideal for multi-carrier or 4x4 MIMO deployments
- This antenna meets the requirements of the U-NII
- Available for order with a grey, brown or black radome

PRODUCT OVERVIEW	Frequency Range (MHz)	LOW BAND		MID BAND				CBRS BAND		LAA BAND
		(2x) 696-960		(4x) 1695-2700				(2x) 3550-3700		(1x) 5150-5925
	Array	 R1	 R2	 Y1	 Y2	 Y3	 Y4	 P1	 P2	 O1
	Connector	4 PORTS		8 PORTS				4 PORTS		2 PORTS
	Polarization	XPOL		XPOL				XPOL		XPOL
	Azimuth Beamwidth (avg)	80°		70°				70°		70°
	Electrical Downtilt	0°		2°, 4°, 6°				0°		0°
	Configuration	SINGLE SECTOR CONFIGURATION								
	Total Connector Count	18 PORTS								
	Connector Type	4.3-10 FEMALE								
	Dimensions	625 x Ø371 mm (24.6 x Ø14.6 in)								
	Radome Color Options	GREY, BROWN or BLACK								

ELECTRICAL SPECIFICATIONS

Low Band

■ R1 ■ R2

Frequency Range		MHz	(2x) 696-960	
Frequency Sub-Range		MHz	696-806	806-960
Polarization		---	(2x) ±45°	
Gain	BASTA	dB	7.6 ± 0.7	7.2 ± 1.1
	MAX	dB	8.3	8.3
Azimuth Beamwidth (3 dB)		degrees	83.8° ± 8.6°	77.9° ± 21.3°
Elevation Beamwidth (3 dB)		degrees	79.4° ± 11.5°	80.1° ± 17.4°
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	
Front-to-Back Ratio		dB	> 17	> 13
Isolation	Intraband	dB	> 25	
	Interband	dB	> 28	
Input Power		Watts	500W	

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ELECTRICAL SPECIFICATIONS Mid Band

Y1 Y2 Y3 Y4

Frequency Range		MHz	(4x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(4x) ±45°			
Gain	BASTA	dBi	11.0 ± 0.6	10.6 ± 0.9	10.7 ± 1.0	11.2 ± 0.9
	MAX	dBi	11.6	11.5	11.7	12.1
Azimuth Beamwidth (3 dB)		degrees	72.7° ± 9.4°	76.3° ± 8.0°	71.0° ± 13.2°	54.9° ± 11.5°
Elevation Beamwidth (3 dB)		degrees	35.8° ± 4.5°	34.1° ± 4.4°	32.8° ± 5.0°	28.4° ± 4.6°
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	> 19	> 19	> 20	>20
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28			
Input Power		Watts	300W			

ELECTRICAL SPECIFICATIONS CBRS Band

P1 P2

Frequency Range	MHz	(2x) 3550-3700	
Polarization	---	(2x) $\pm 45^\circ$	
Gain	BASTA	dBi	9.0 ± 0.4
	MAX	dBi	9.4
Azimuth Beamwidth (3 dB)	degrees	$55.3^\circ \pm 6.0^\circ$	
Elevation Beamwidth (3 dB)	degrees	$40.8^\circ \pm 5.6^\circ$	
Electrical Downtilt	degrees	(y) 0°	
Impedance	Ohms	50 Ω	
VSWR	---	$\leq 1.5:1$	
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBc	N/A	
Upper Sidelobe Suppression	dB	N/A	
Front-to-Back Ratio	dB	> 24	
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
Input Power	Watts	100W	

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ELECTRICAL SPECIFICATIONS LAA Band

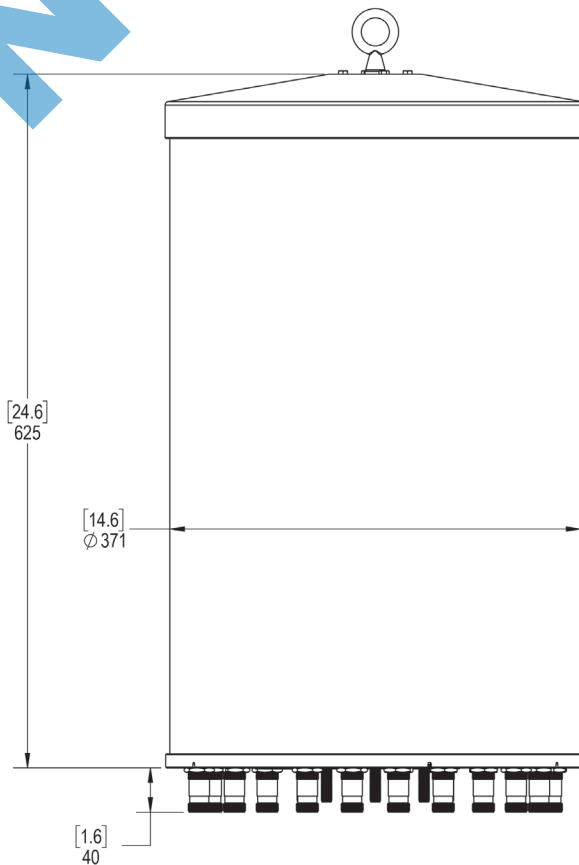
■ O1

Frequency Range		MHz	(1x) 5150-5925
Polarization		---	(1x) $\pm 45^\circ$
Gain	BASTA	dBi	5.4 ± 0.9
	MAX	dBi	6.3
Azimuth Beamwidth (3 dB)		degrees	$56.4^\circ \pm 26.3^\circ$
Elevation Beamwidth (3 dB)		degrees	$21.6^\circ \pm 2.8^\circ$
Electrical Downtilt		degrees	(y) 0°
Impedance		Ohms	50 Ω
VSWR		---	$\leq 1.5:1$
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A
Upper Sidelobe Suppression		dB	Meets FCC requirements upper pattern control for use in LAA outdoor network
Front-to-Back Ratio		dB	> 30
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
Input Power		Watts	50W
U-NII Compliant		---	Yes

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MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	625 (24.6)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	10.9 (24.0)
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	---	4.3-10 Female
	Quantity	---	18
	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

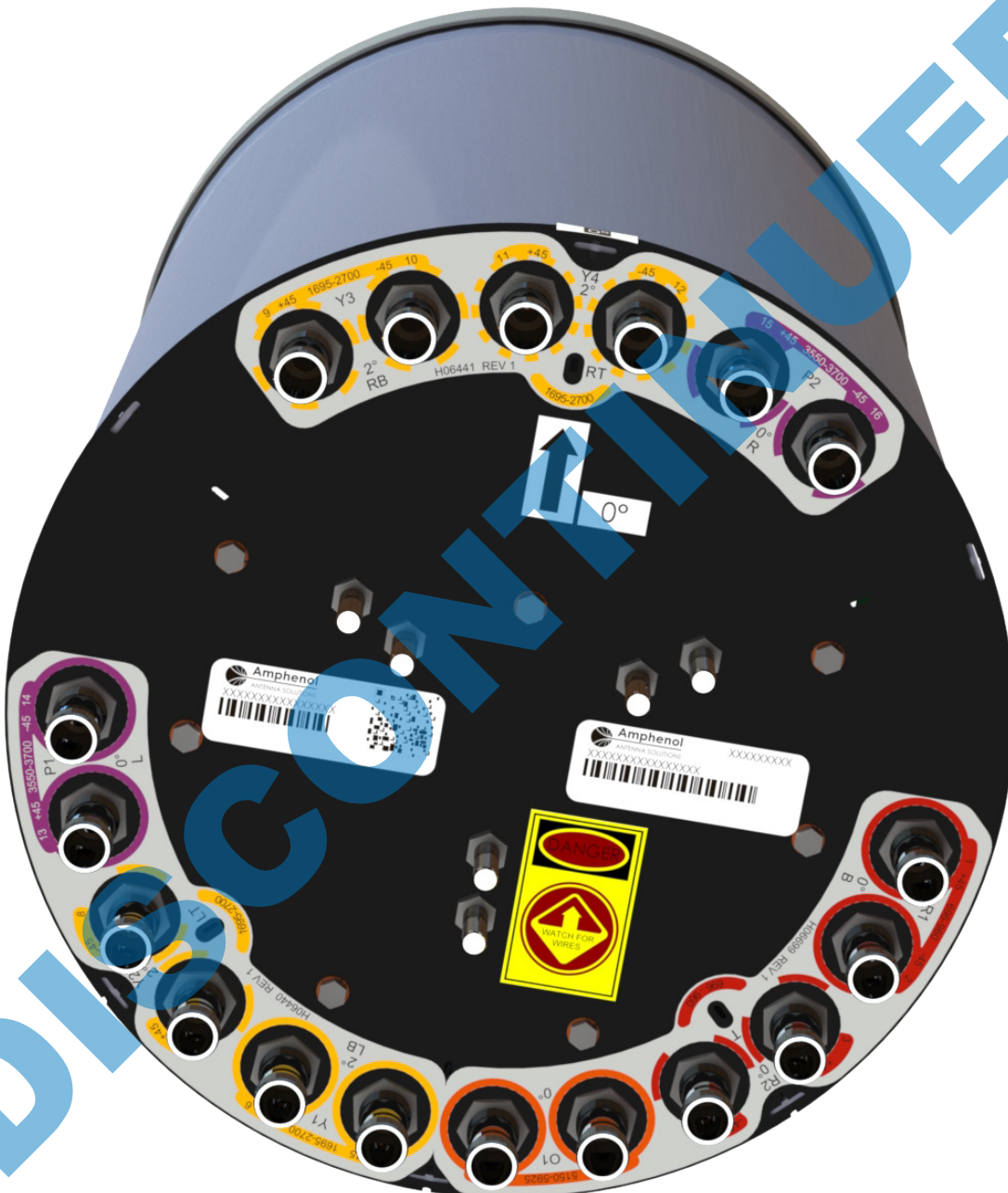
FREQUENCY		ARRAY	CONNECTOR	CONNECTOR TYPE
LOW BAND	696-960	■ R1	1-2	(2x) 4.3-10 Female
	696-960	■ R2	3-4	(2x) 4.3-10 Female
MID BAND	1695-2700	■ Y1	5-6	(2x) 4.3-10 Female
	1695-2700	■ Y2	7-8	(2x) 4.3-10 Female
	1695-2700	■ Y3	9-10	(2x) 4.3-10 Female
	1695-2700	■ Y4	11-12	(2x) 4.3-10 Female
CBRS BAND	3550-3700	■ P1	13-14	(2x) 4.3-10 Female
	3550-3700	■ P2	15-16	(2x) 4.3-10 Female
LAA BAND	5150-5925	■ O1	17-18	(2x) 4.3-10 Female



The illustration is not shown to scale.

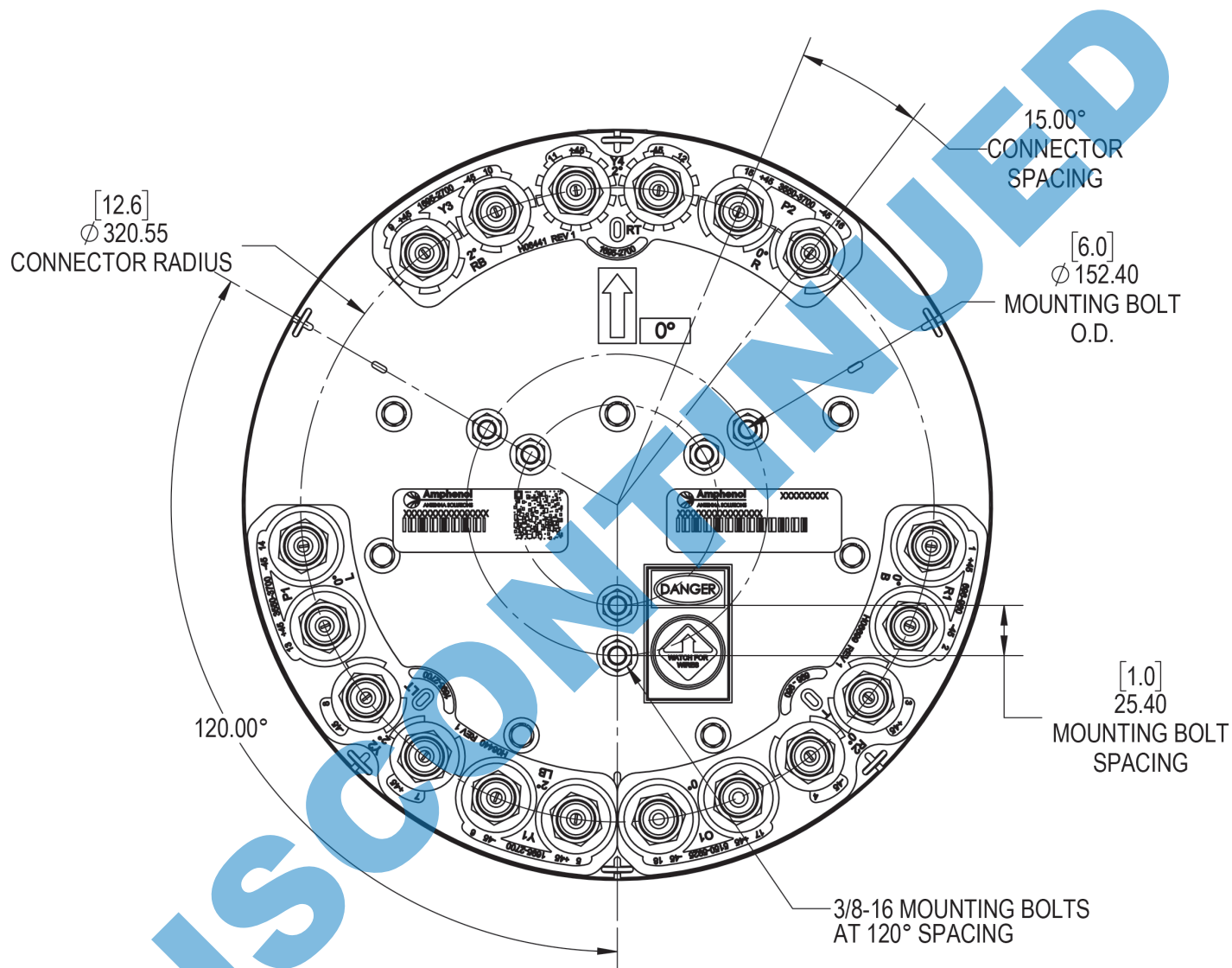
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BOTTOM VIEW - LABELING



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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.

2C4U3MS070X06Fwxys0

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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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
2C	4U	3M		S	070	X	06	F	wxy	s	0	BK BR
(2x) 696-960	(4x) 1695-2700	(2x) 3550-3700	(1x) 5150-5925	Single 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	Original Variation	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

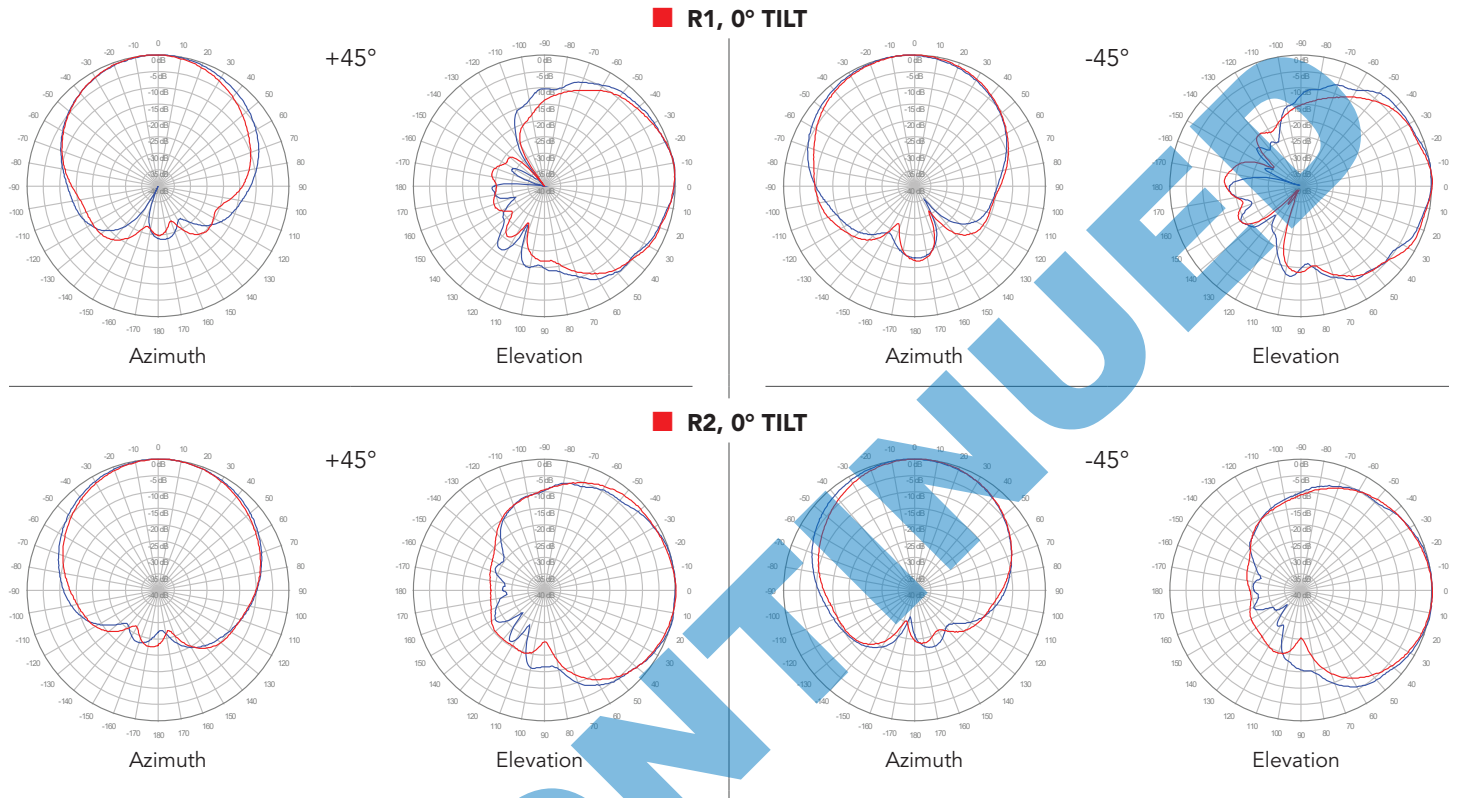
Select from the following ordering options

SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND				ORDER MODEL NUMBER
	LOW BAND	MID BAND	CBRS BAND	LAA BAND	
Grey Pantone 420 C	0°	2°	0°	0°	2C4U3MS070X06F020s0
	0°	4°	0°	0°	2C4U3MS070X06F040s0
	0°	6°	0°	0°	2C4U3MS070X06F060s0
Brown Pantone 476 C	0°	2°	0°	0°	2C4U3MS070X06F020s0BR
	0°	4°	0°	0°	2C4U3MS070X06F040s0BR
	0°	6°	0°	0°	2C4U3MS070X06F060s0BR
Black RAL 9011	0°	2°	0°	0°	2C4U3MS070X06F020s0BK
	0°	4°	0°	0°	2C4U3MS070X06F040s0BK
	0°	6°	0°	0°	2C4U3MS070X06F060s0BK

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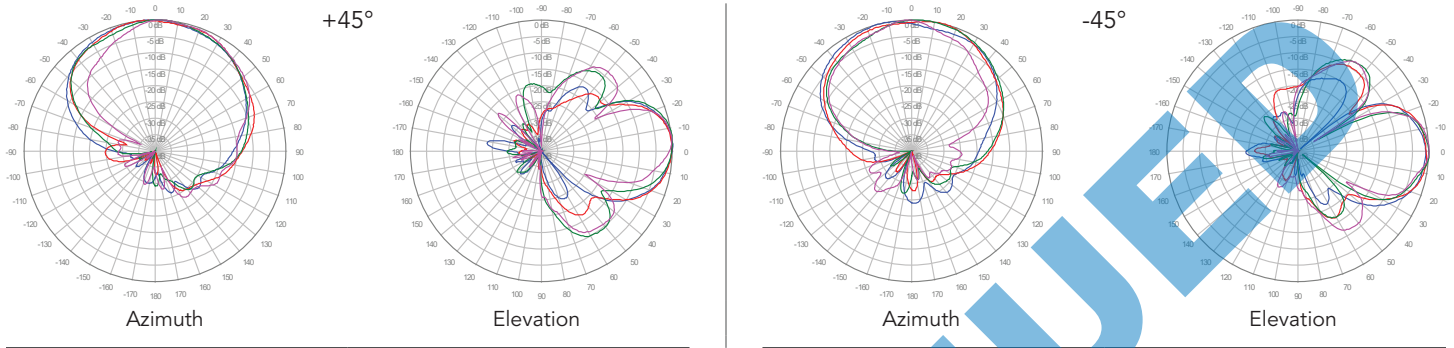
750 MHz ————
850 MHz ————



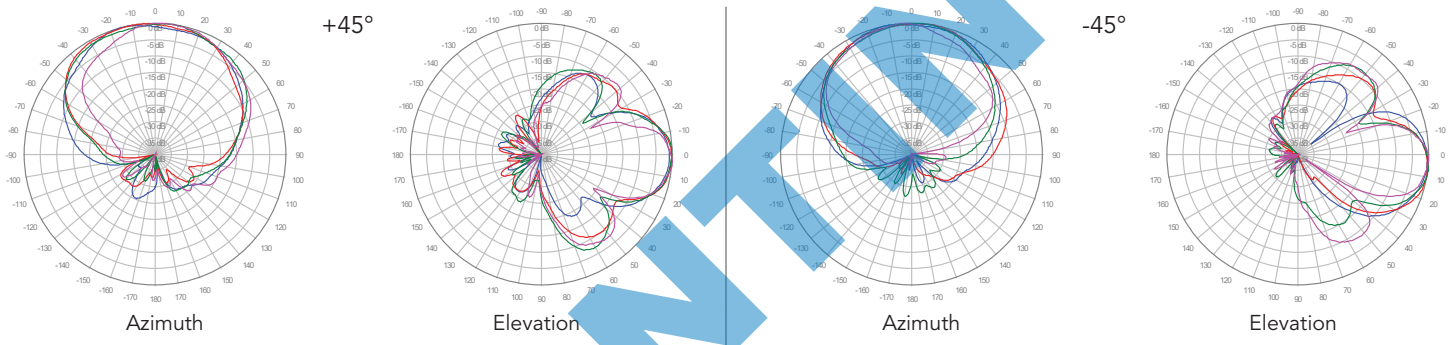
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1800 MHz —
1900 MHz —
2100 MHz —
2600 MHz —

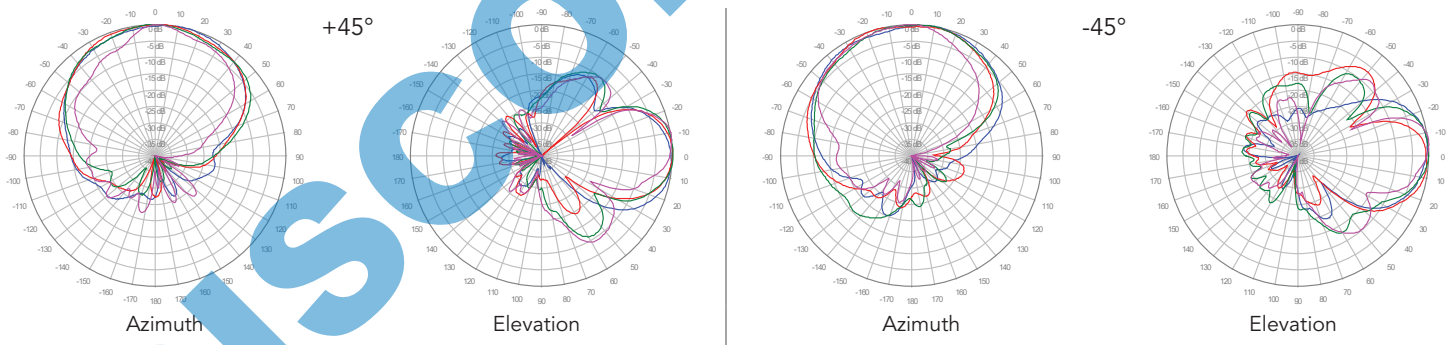
■ Y1, 2° TILT



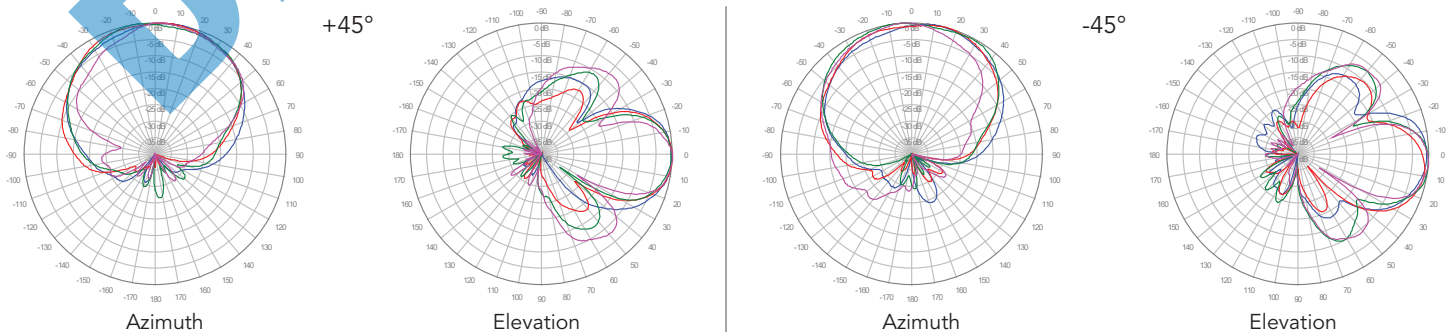
■ Y2, 2° TILT



■ Y3, 2° TILT



■ Y4, 2° TILT

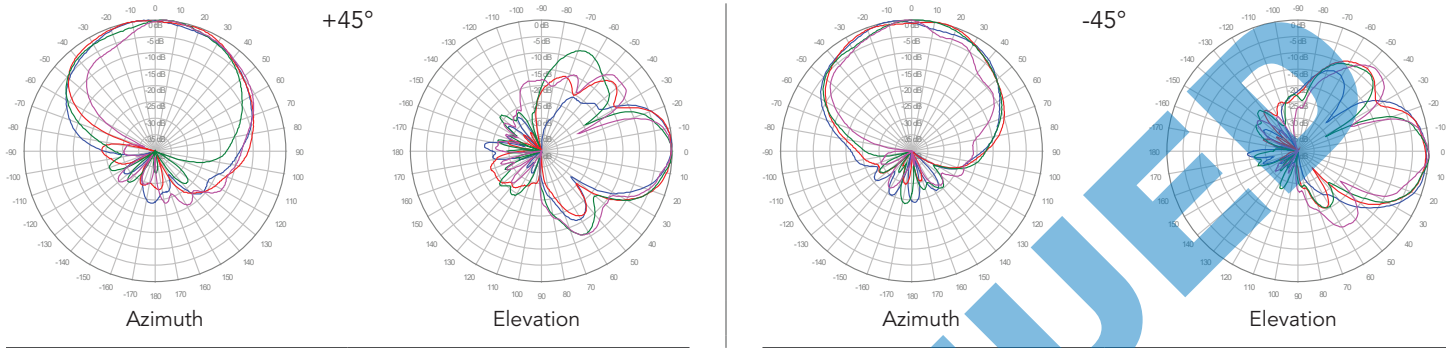


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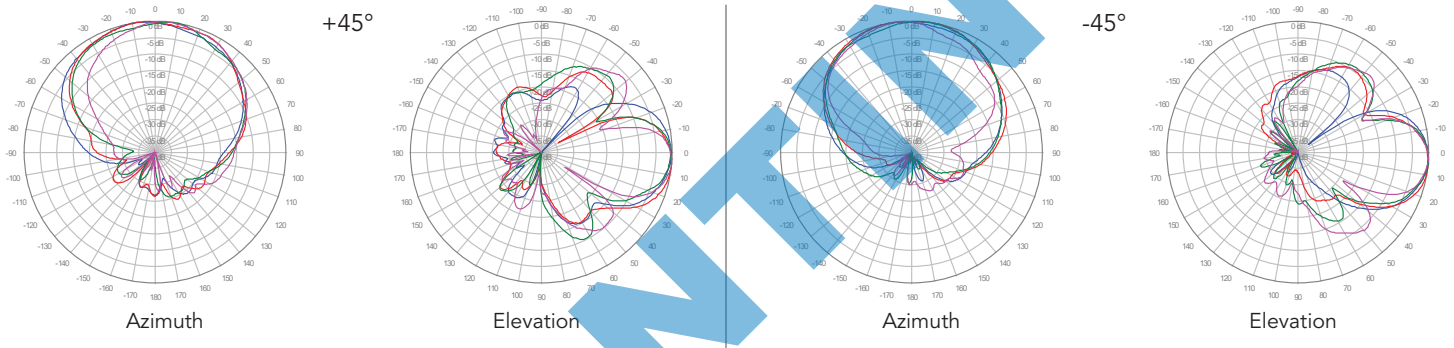
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1800 MHz —
1900 MHz —
2100 MHz —
2600 MHz —

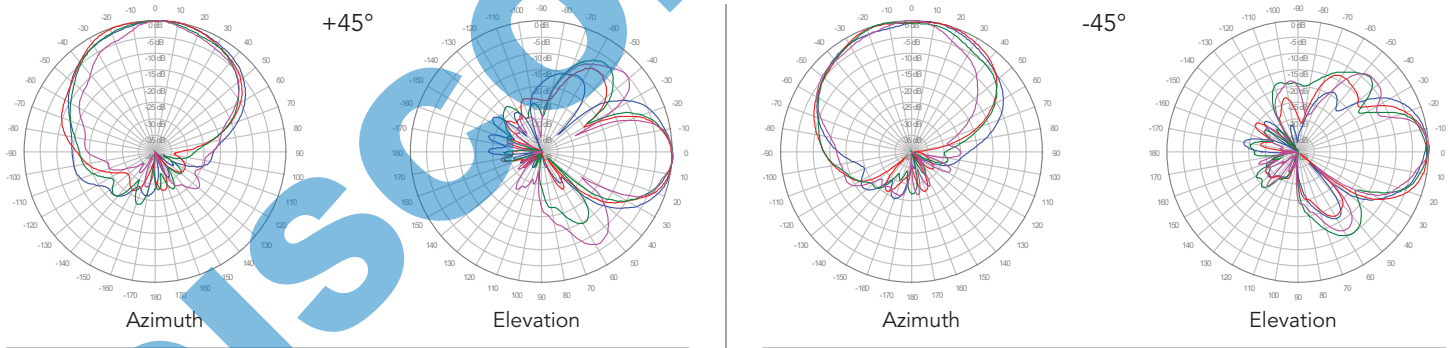
■ Y1, 4° TILT



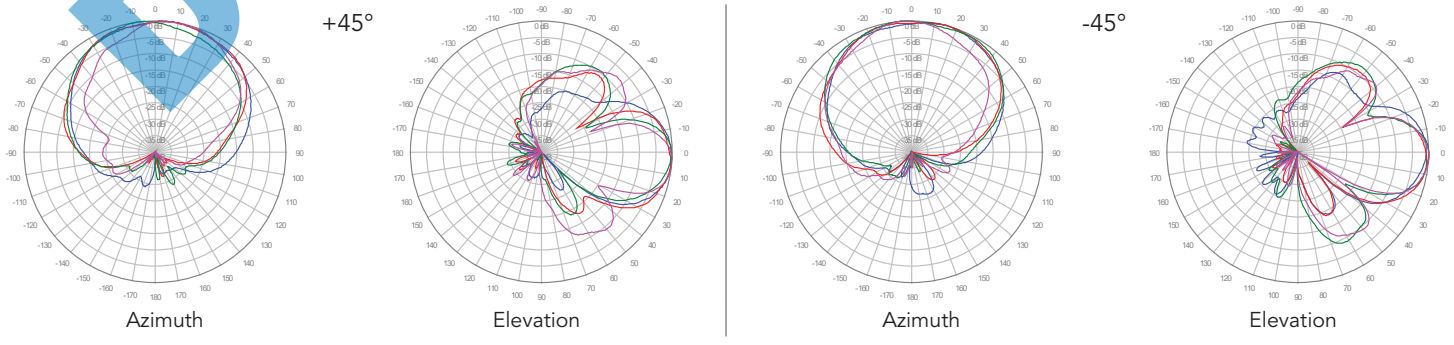
■ Y2, 4° TILT



■ Y3, 4° TILT



■ Y4, 4° TILT

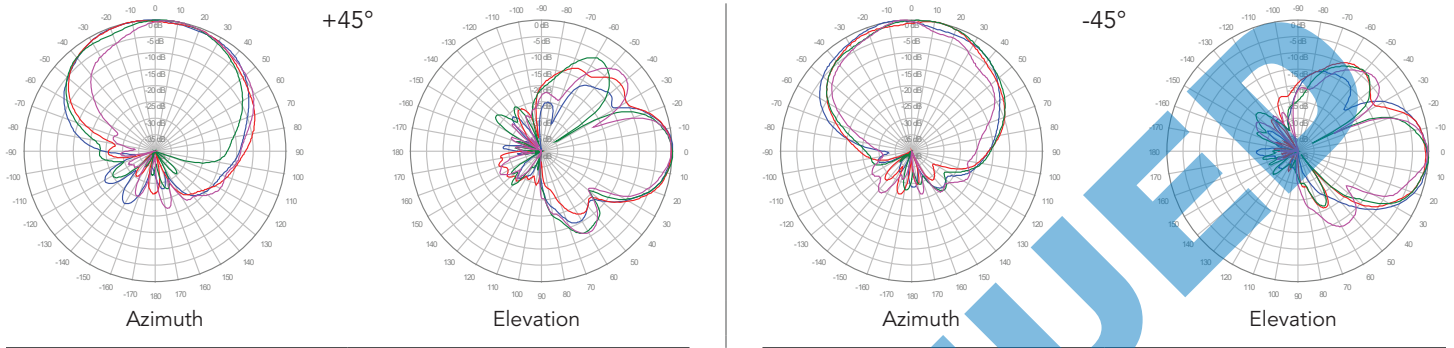


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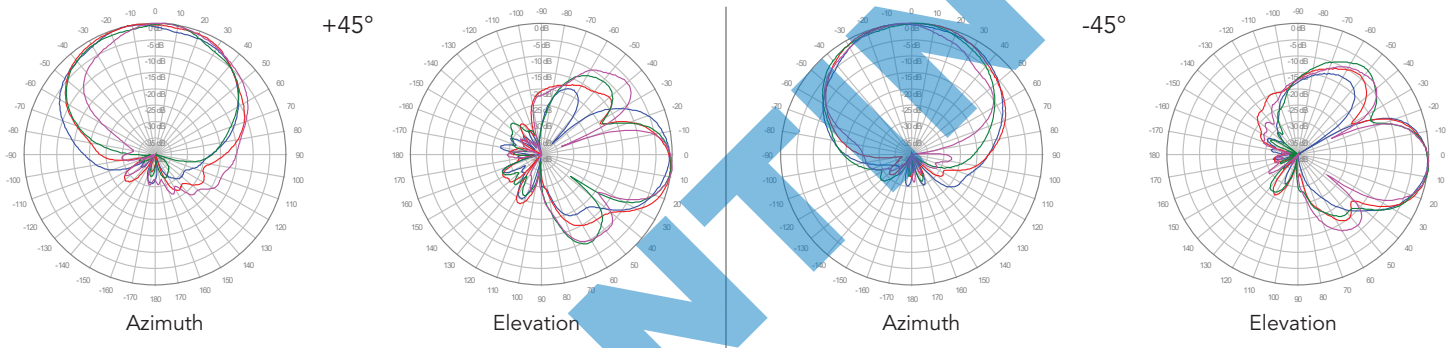
2C4U3MS070X06Fwxyso

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

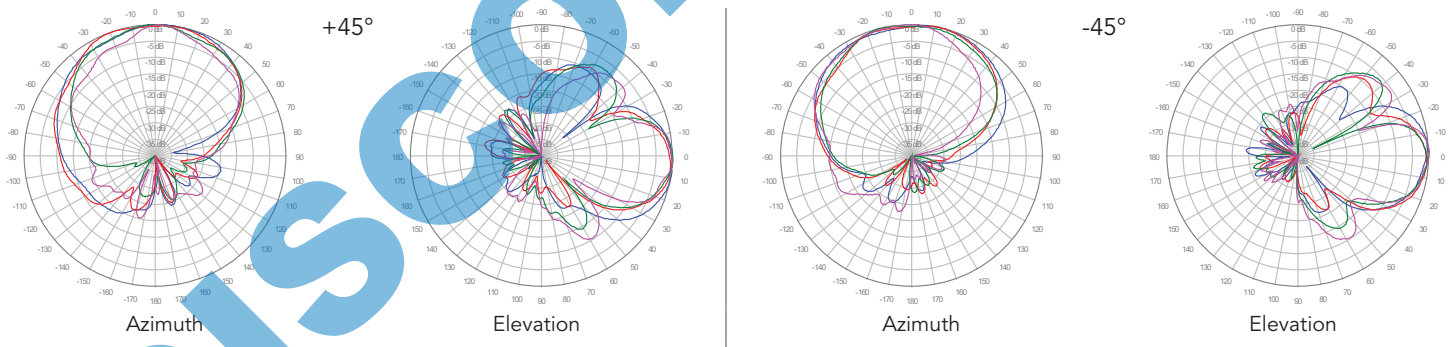
■ Y1, 6° TILT



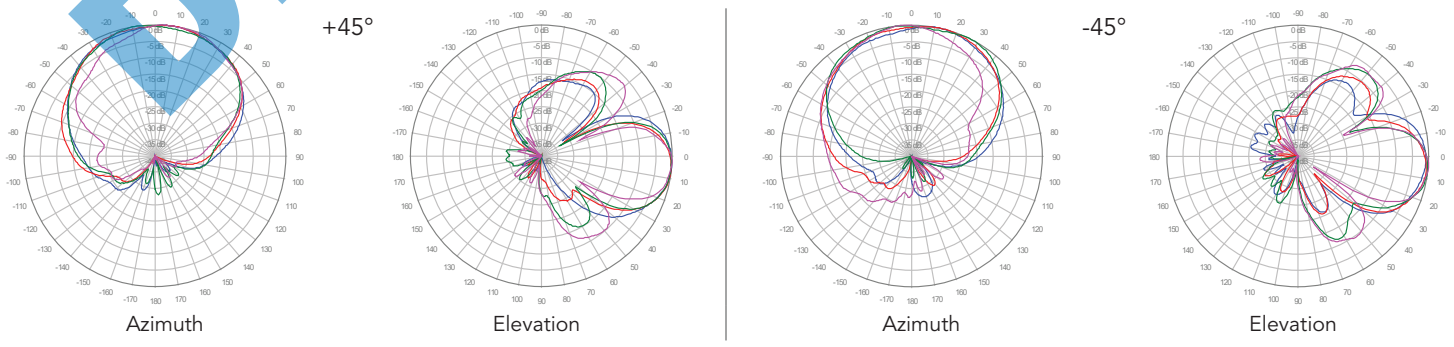
■ Y2, 6° TILT



■ Y3, 6° TILT



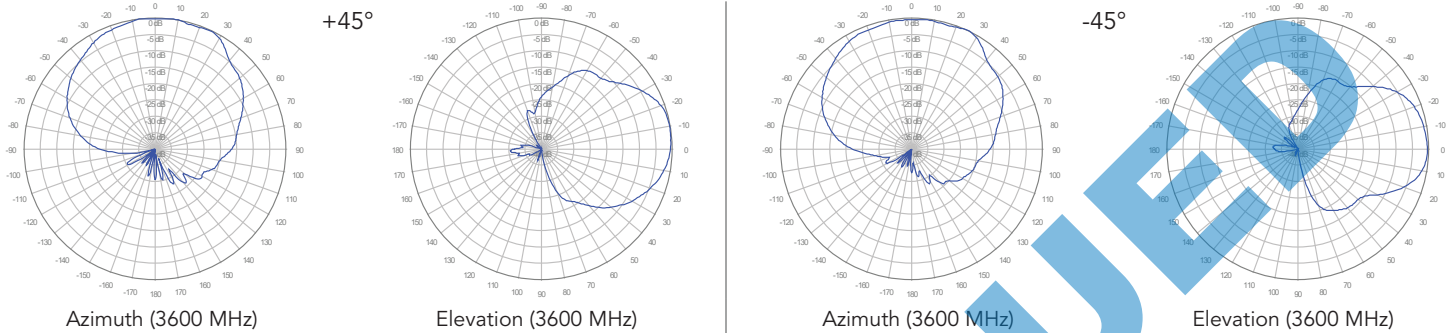
■ Y4, 6° TILT



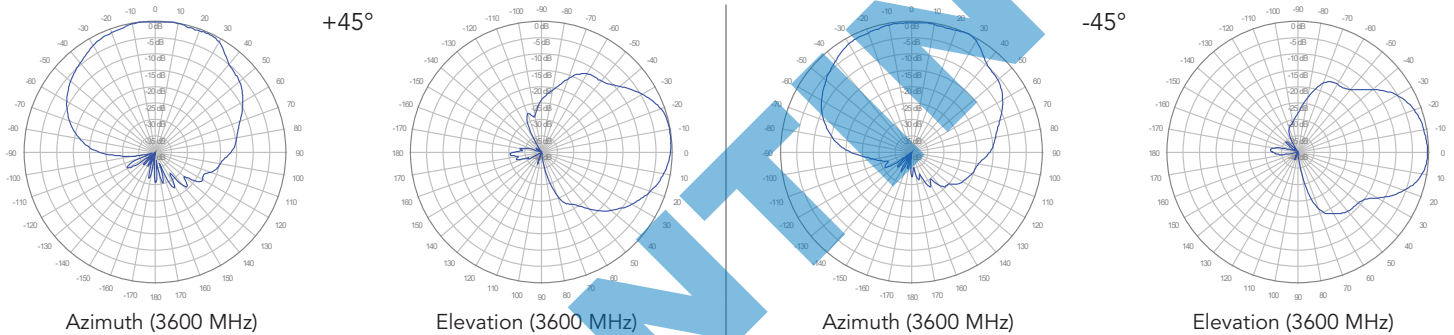
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P1, 0° TILT



P2, 0° TILT



O1, 0° TILT

