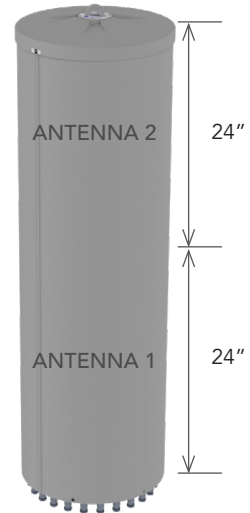


2C6U4MT360X12Fwxys4

Features

- 4G/5G pseudo omni configuration with 24 connectors
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- New, enhanced mechanical and antenna design
 - Easily removable lifting ring
 - Extended CBRS Band
 - Improvements in gain, port isolation and VSWR
- 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	(6x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925
	Array	■ R1 ■ R2	■ Y1 ■ Y2 ■ Y3 ■ Y4 ■ Y5 ■ Y6	■ P1 ■ P2	■ O1 ■ O2
	Connector	4 PORTS	12 PORTS	4 PORTS	4 PORTS
	Polarization	XPOL	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°	360°	360°
	Electrical Downtilt	0°	2°, 4°, 6°	0°	0°
	Configuration	OMNI CONFIGURATION			
	Connector Type	(24x) 4.3-10 FEMALE CONNECTORS			
	Dimensions	1208.4 x Ø371 mm (47.6 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	dBi	4.1 ± 0.5	3.4 ± 0.7
	MAX	dBi	4.6	4.1
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	69.4° ± 14.2°	70.9° ± 13.3°
Electrical Downtilt		degrees	(w) 0°	
Impedance		Ohms	50	
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	
Input Power		Watts	500W	

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ELECTRICAL SPECIFICATIONS Mid Band

■ 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	8.0 ± 0.6	8.3 ± 0.5	8.4 ± 0.6	9.2 ± 0.7
	MAX	dBi	8.6	8.8	9.0	9.9
Azimuth Beamwidth (3 dB)	degrees	360°	360°	360°	360°	
Elevation Beamwidth (3 dB)	degrees	21.5° ± 3.0°	19.5° ± 1.7°	18.6° ± 1.9°	15.5° ± 2.1°	
Electrical Downtilt	degrees	(x) 2°, 4°, 6°				
Impedance	Ohms	50				
VSWR	---	≤ 1.5:1				
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBc	< -153				
Upper Sidelobe Suppression	dB	N/A	N/A	N/A	N/A	
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28			
Input Power	Watts	300W				

ELECTRICAL SPECIFICATIONS CBRS Band

■ P1 ■ P2

Frequency Range	MHz	(2x) 3300-4200	
Polarization	---	(2x) ±45°	
Gain	BASTA	dBi	5.8 ± 0.5
	MAX	dBi	6.3
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	26.4 ± 6.1°	
Electrical Downtilt	degrees	(y) 0°	
Impedance	Ohms	50	
VSWR	---	≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBc	N/A	
Upper Sidelobe Suppression	dB	N/A	
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
Input Power	Watts	100W	

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ELECTRICAL SPECIFICATIONS LAA Band

■ O1 ■ O2

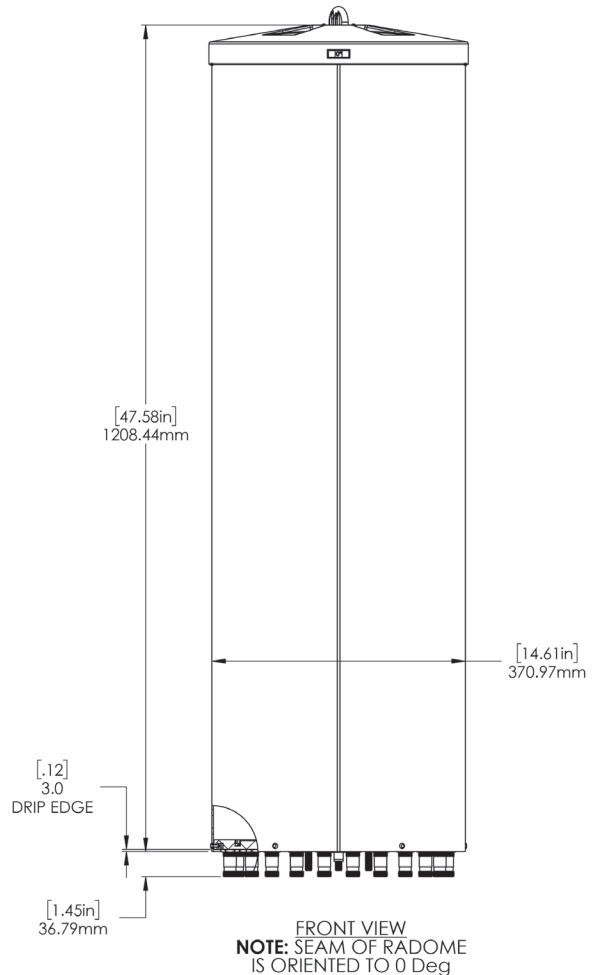
Frequency Range		MHz	(2x) 5150-5925
Polarization		---	(2x) ±45°
Gain	BASTA	dBi	5.2 ± 0.8
	MAX	dBi	6.0
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	20.6° ± 3.0°
Electrical Downtilt		degrees	(y) 0°
Impedance		Ohms	50Ω
VSWR		---	≤ 1.5:1
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A
Upper Sidelobe Suppression		dB	> 11
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)	1208.4 (47.6)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	20.4 (45.0)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	391 (88)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m ² (ft ²)	0.47 (5.0)
Volume	Total	m ³ (ft ³)	0.13 (4.7)
	Each Antenna	m ³ (ft ³)	0.065 (2.33)
Connector	Type	---	(24x) 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

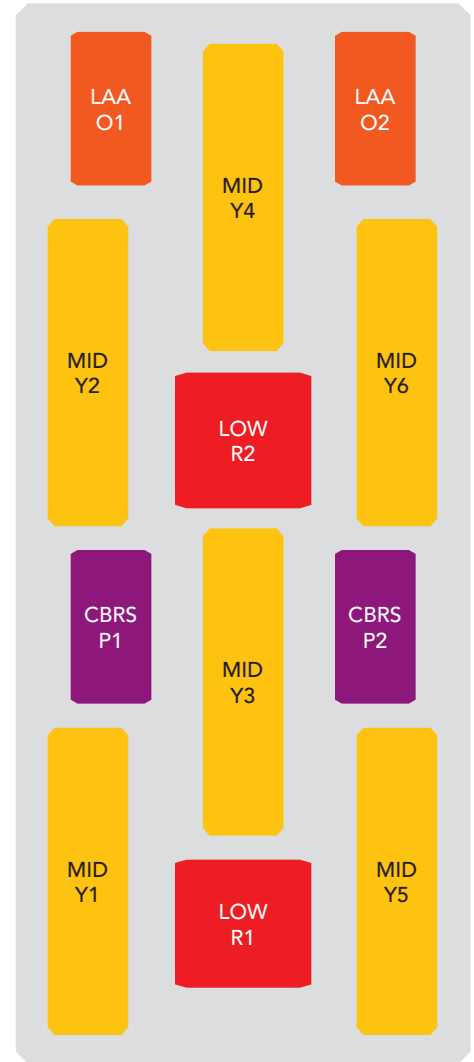


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ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
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
	1695-2700	■ Y5	13-14 (2x) 4.3-10 Female
	1695-2700	■ Y6	15-16 (2x) 4.3-10 Female
CBRS BAND	3300-4200	■ P1	17-18 (2x) 4.3-10 Female
	3300-4200	■ P2	19-20 (2x) 4.3-10 Female
LAA BAND	5150-5925	■ O1	21-22 (2x) 4.3-10 Female
	5150-5925	■ O2	23-24 (2x) 4.310 Female



The illustration is not shown to scale.

2C6U4MT360X12Fwxys4

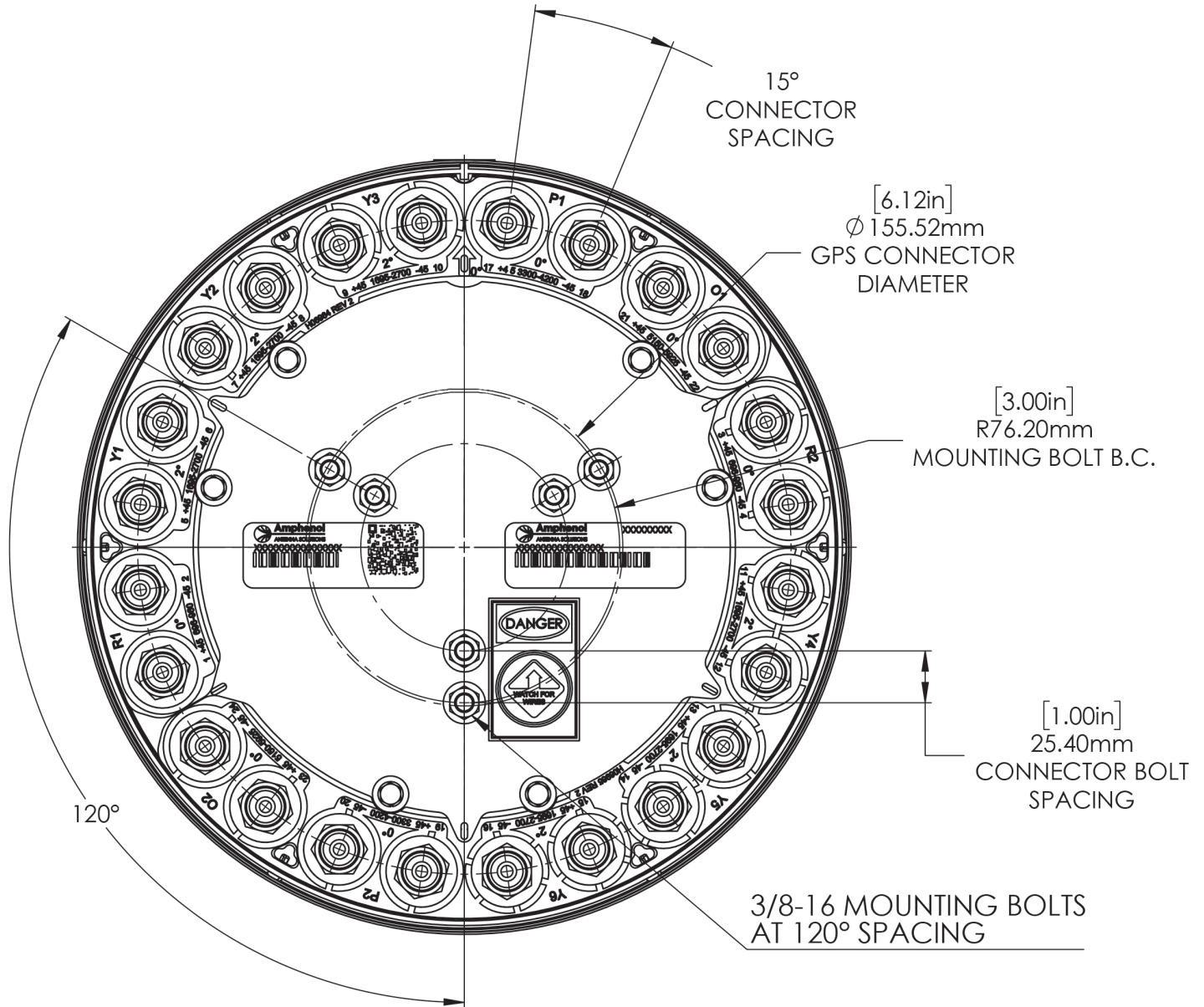
BOTTOM VIEW - LABELING



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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		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	4M		T	360	X	12	F	wxy	s	4	BK BR
(2x) 696- 960	(6x) 1695- 2700	(2x) 3300- 4200	(2x) 5150- 5925	Tri-Sector	360°	XPOL	1.2 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

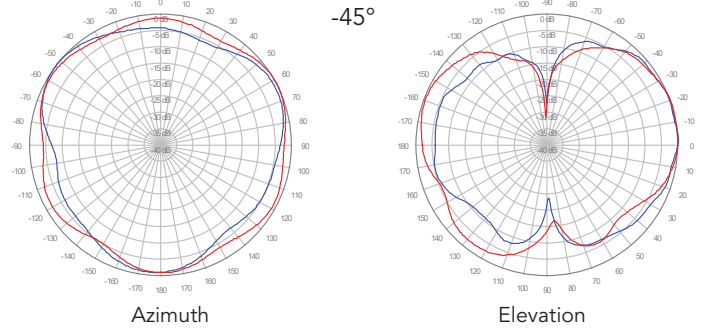
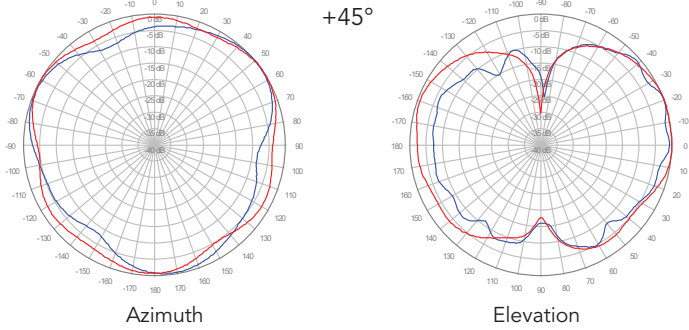
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND				ORDER MODEL NUMBER
	LOW BAND	MID BAND	CBRS BAND	LAA BAND	
Grey Pantone 420 C	0°	2°	0°	0°	2C6U4MT360X12F020s4
	0°	4°	0°	0°	2C6U4MT360X12F040s4
	0°	6°	0°	0°	2C6U4MT360X12F060s4
Brown Pantone 476 C	0°	2°	0°	0°	2C6U4MT360X12F020s4BR
	0°	4°	0°	0°	2C6U4MT360X12F040s4BR
	0°	6°	0°	0°	2C6U4MT360X12F060s4BR
Black RAL 9011	0°	2°	0°	0°	2C6U4MT360X12F020s4BK
	0°	4°	0°	0°	2C6U4MT360X12F040s4BK
	0°	6°	0°	0°	2C6U4MT360X12F060s4BK

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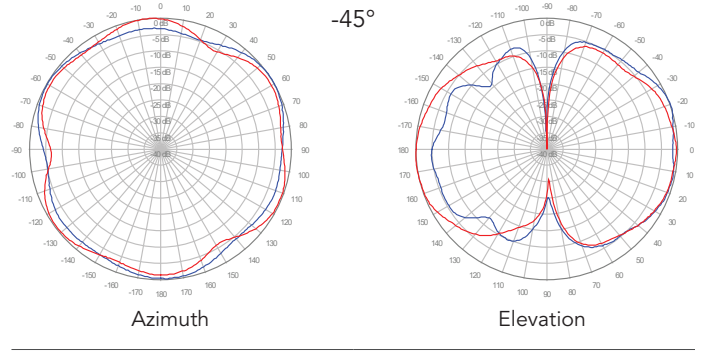
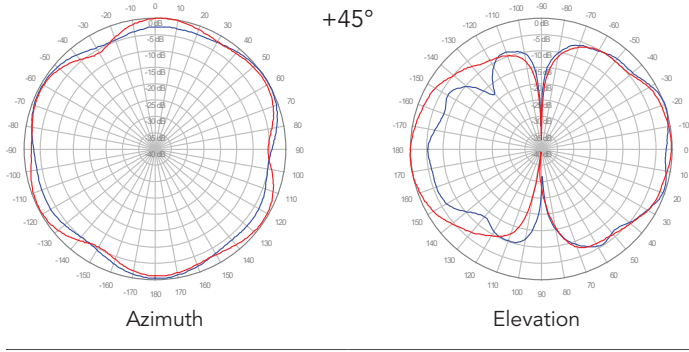
750 MHz ————
850 MHz ————

2C6U4MT360X12Fwxys4

R1, 0° TILT



R2, 0° TILT

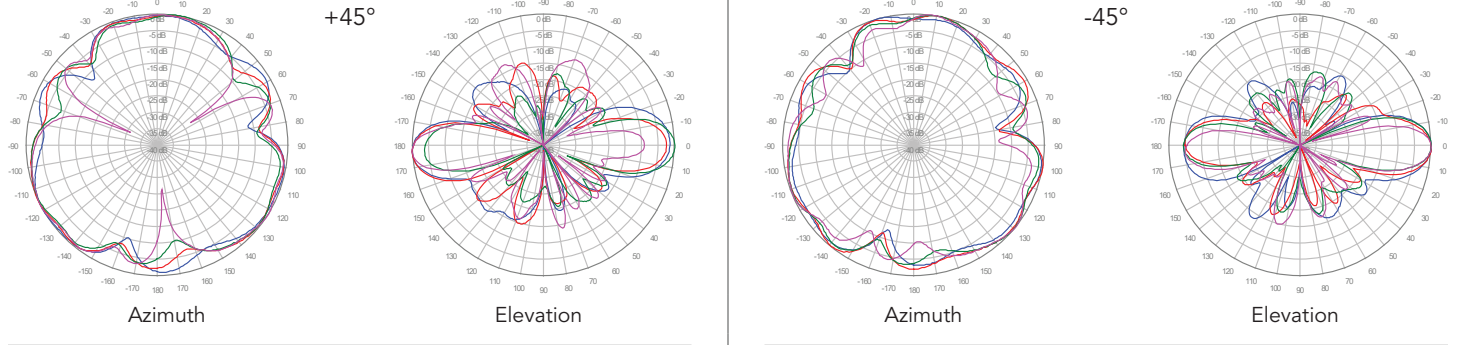


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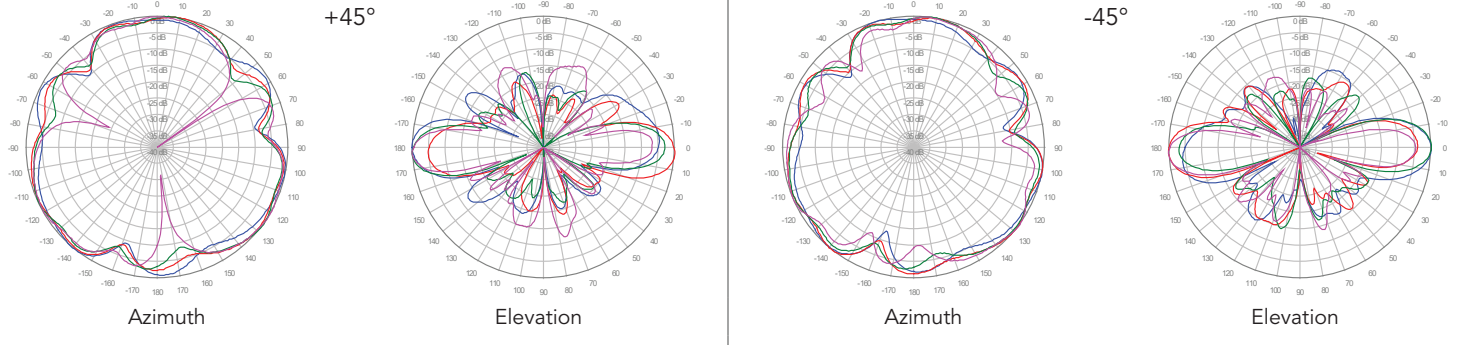
2C6U4MT360X12Fwxys4

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

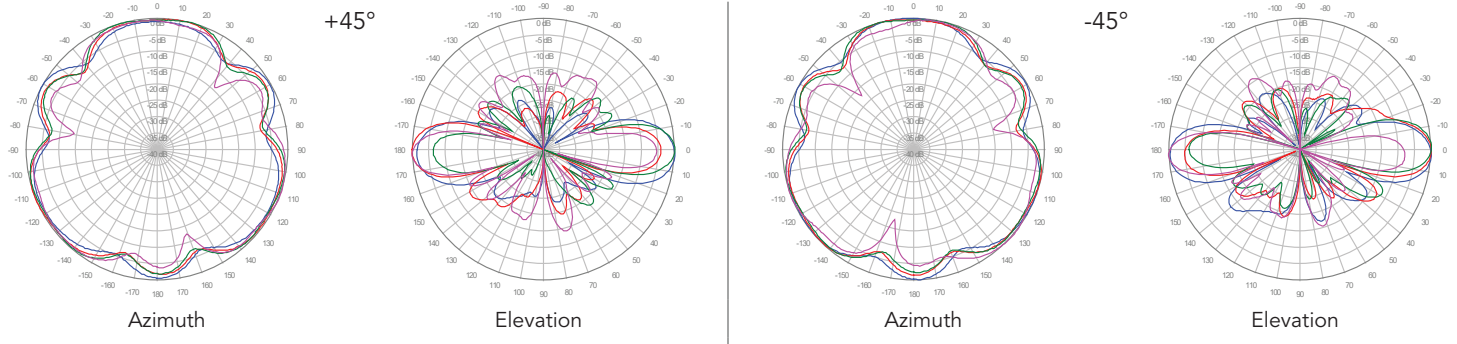
Y1, 2° TILT



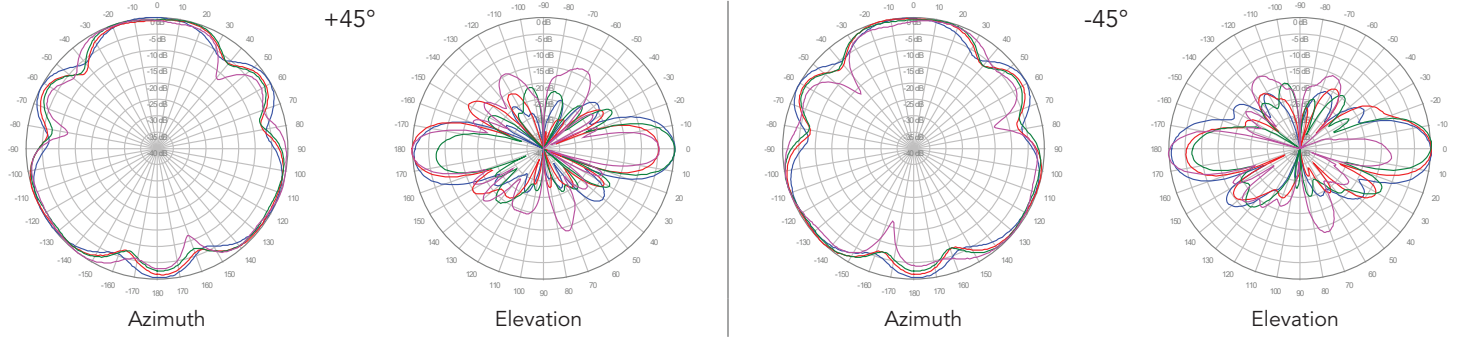
Y2, 2° TILT



Y3, 2° TILT



Y4, 2° TILT



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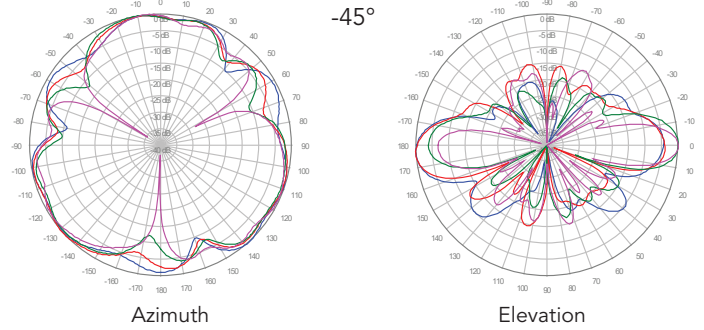
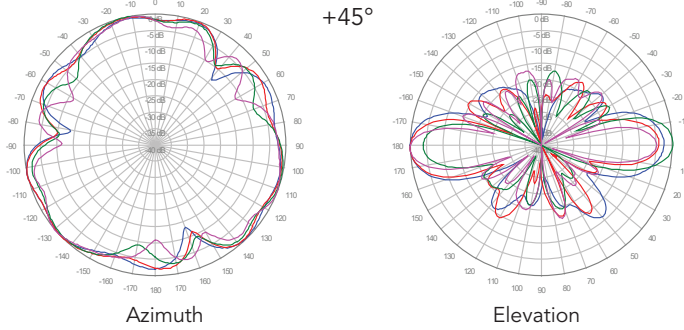
47.6 IN

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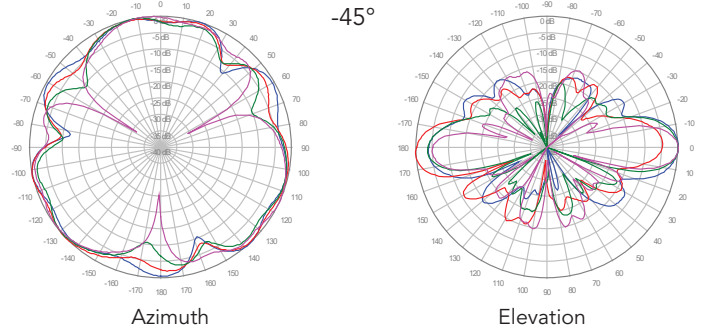
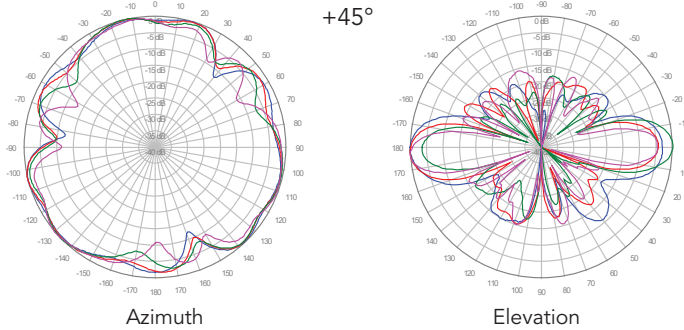
2C6U4MT360X12Fwxys4

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

Y5, 2° TILT



Y6, 2° TILT

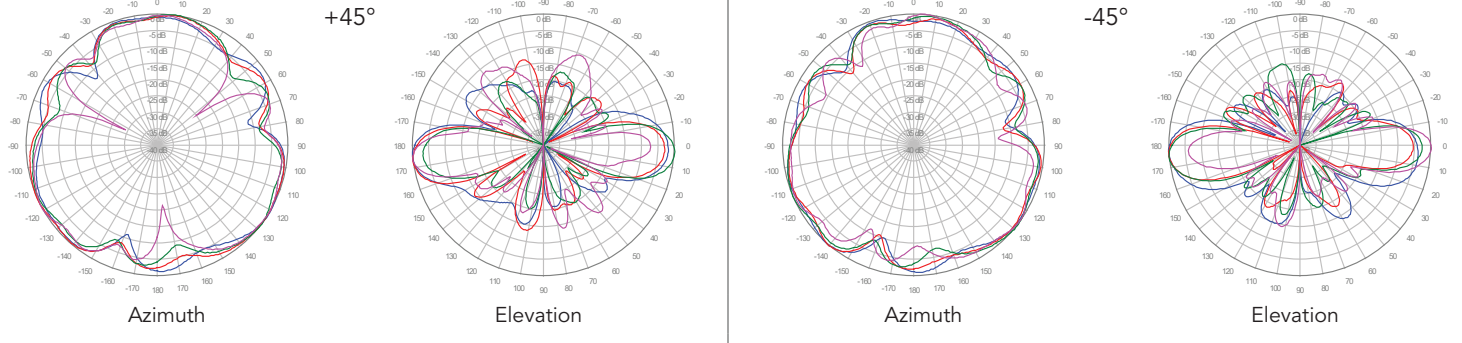


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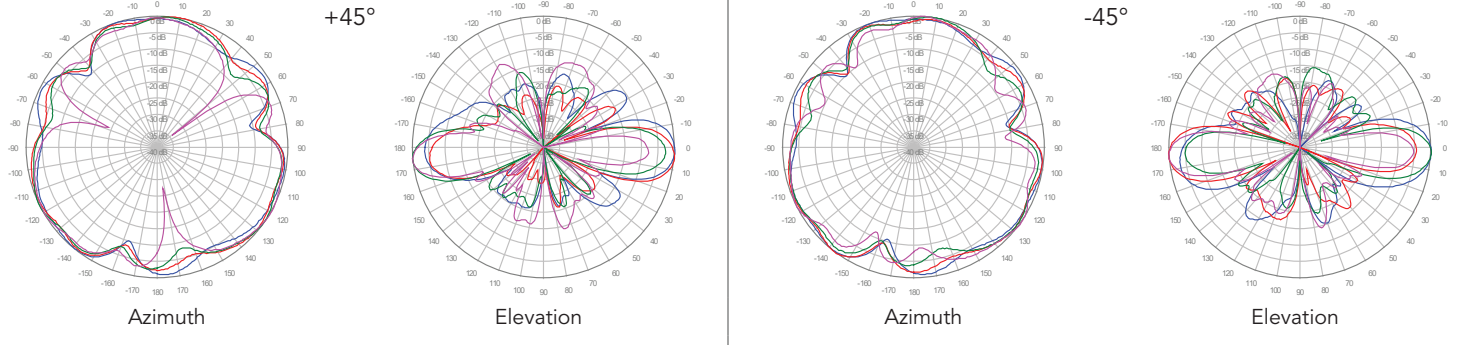
2C6U4MT360X12Fwxys4

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

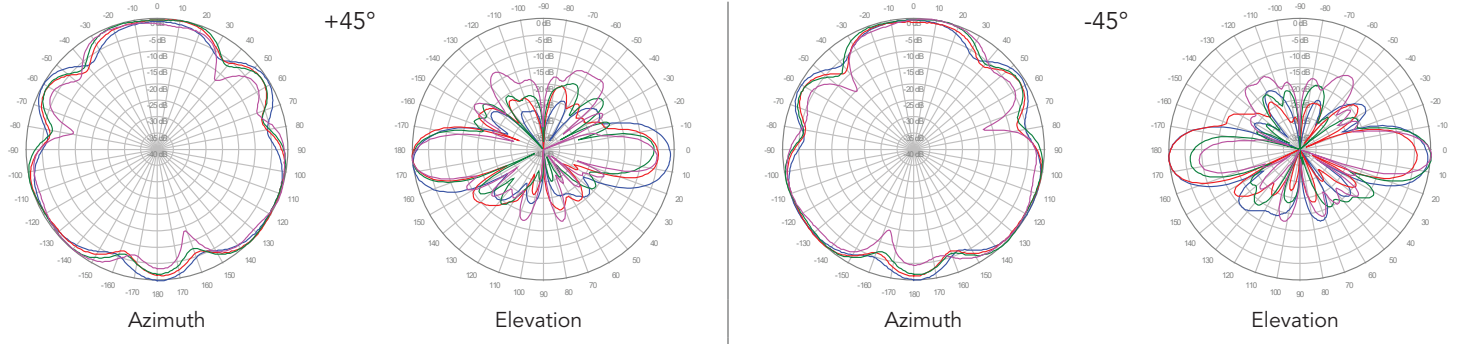
Y1, 4° TILT



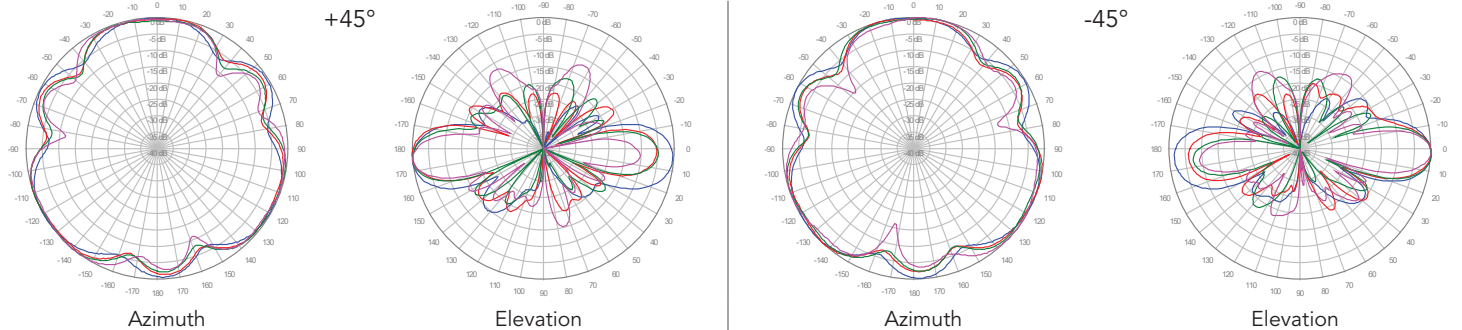
Y2, 4° TILT



Y3, 4° TILT



Y4, 4° TILT



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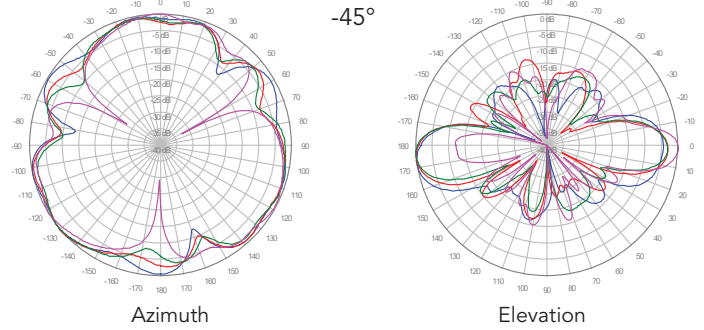
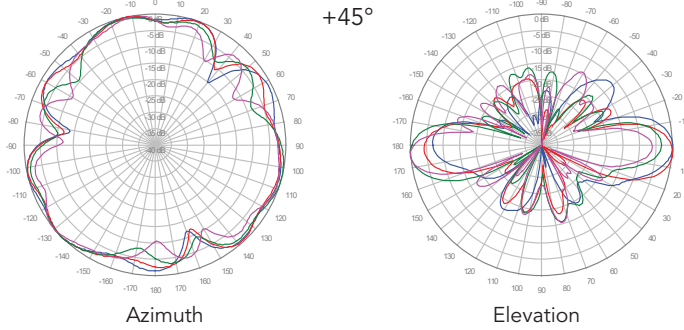
47.6 IN

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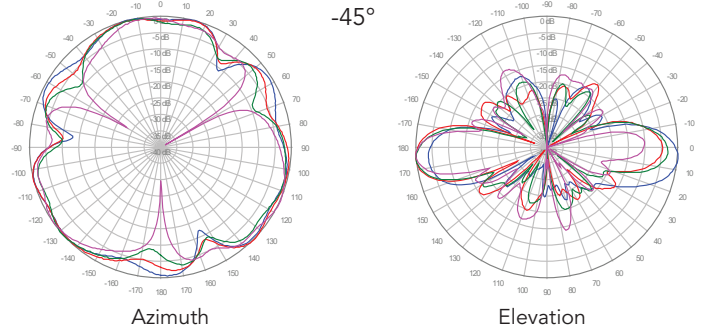
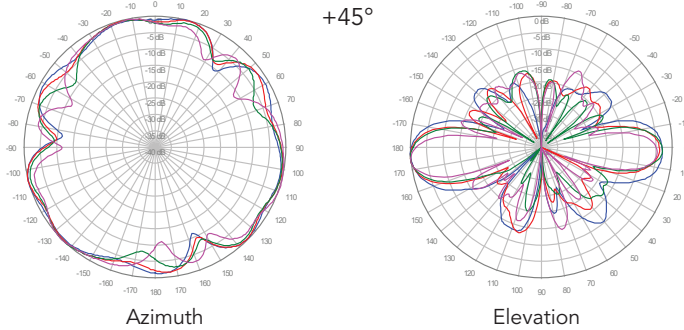
2C6U4MT360X12Fwxys4

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

Y5, 4° TILT



Y6, 4° TILT

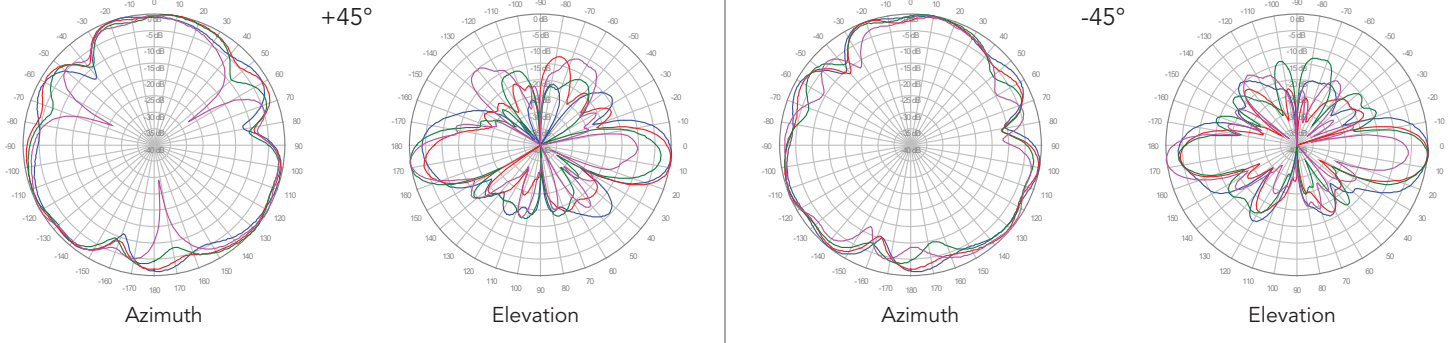


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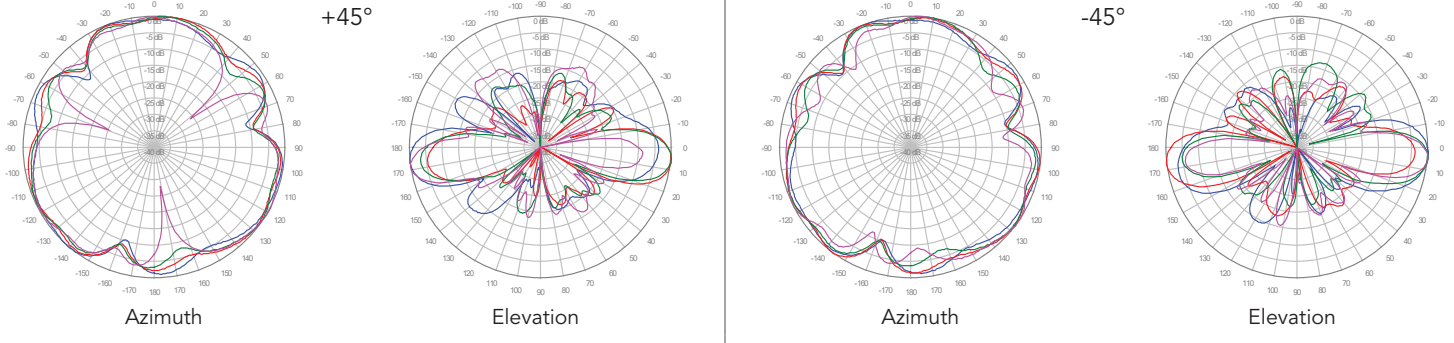
2C6U4MT360X12Fwxys4

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

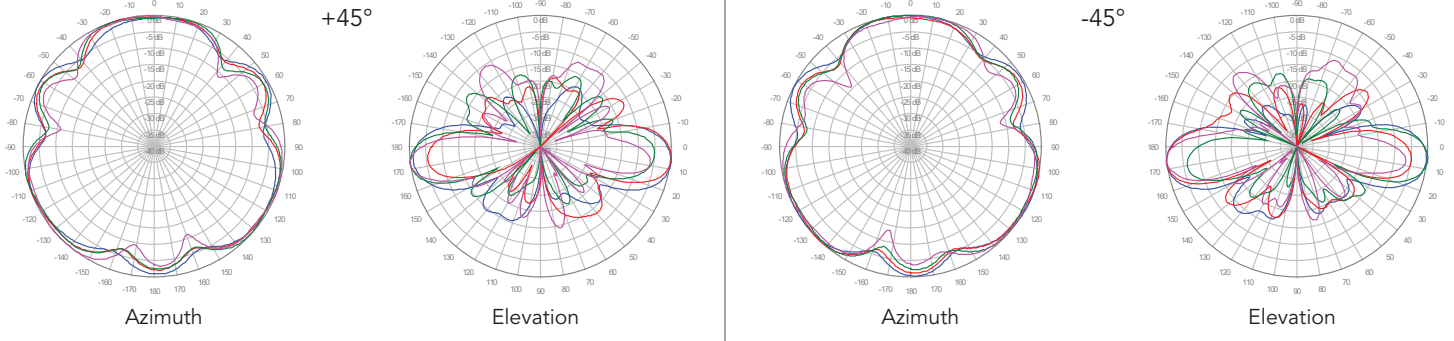
Y1, 6° TILT



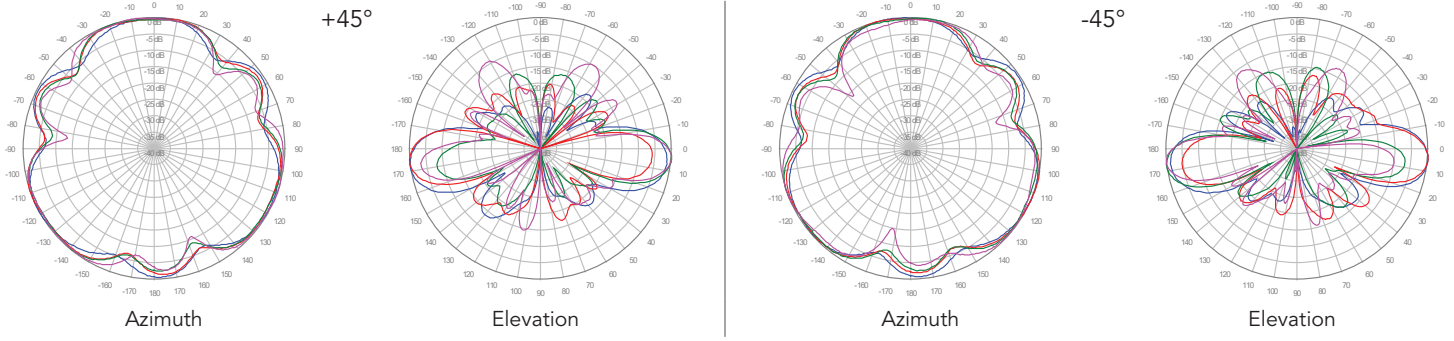
Y2, 6° TILT



Y3, 6° TILT



Y4, 6° TILT



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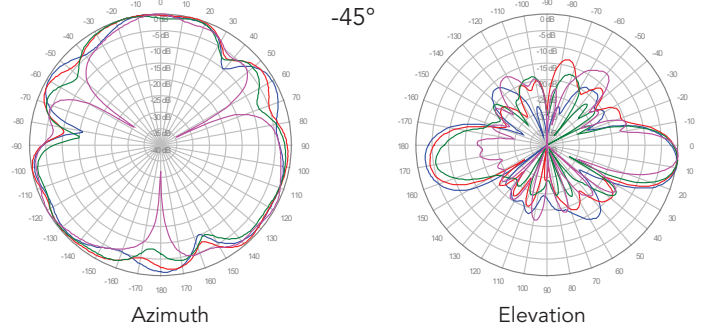
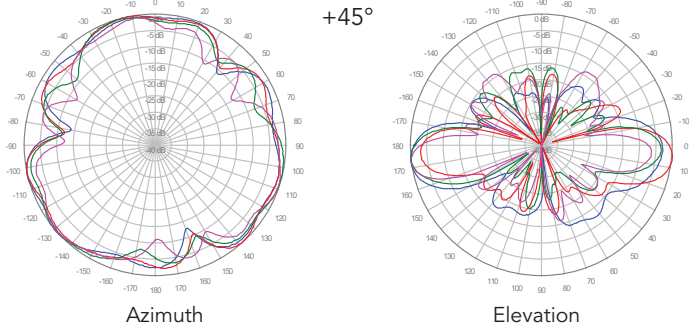
47.6 IN

FIXED TILT

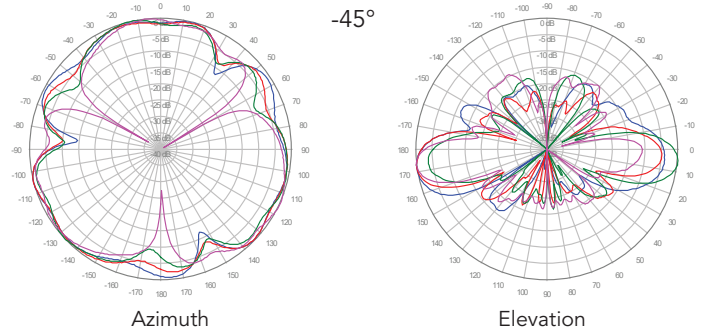
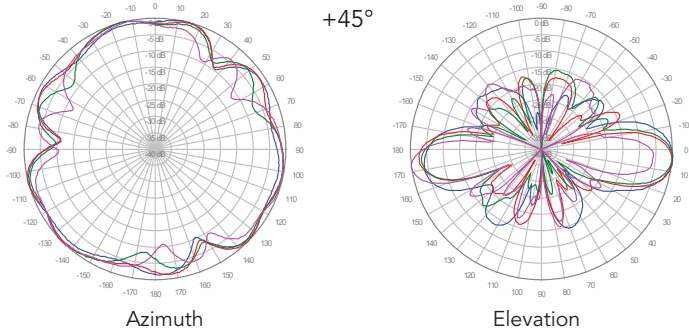
2C6U4MT360X12Fwxys4

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

■ Y5, 6° TILT



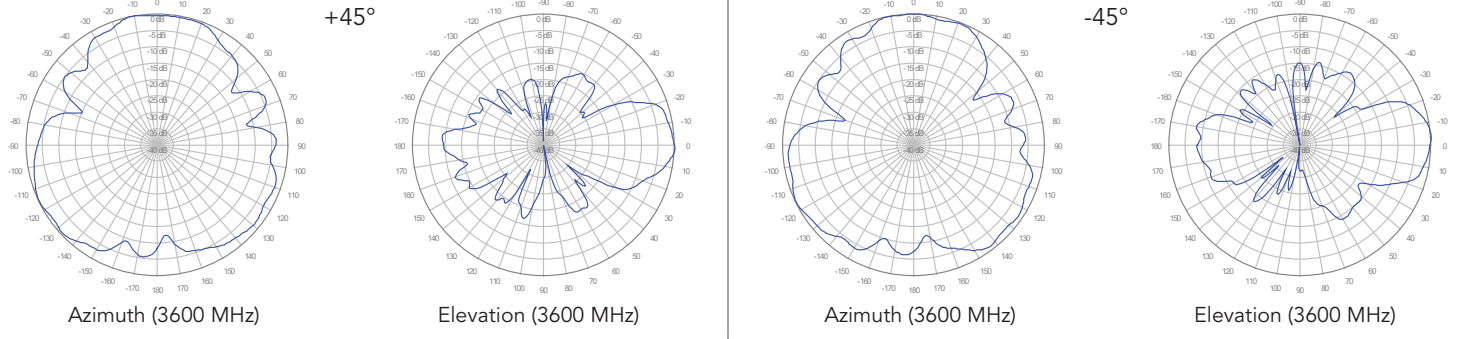
■ Y6, 6° TILT



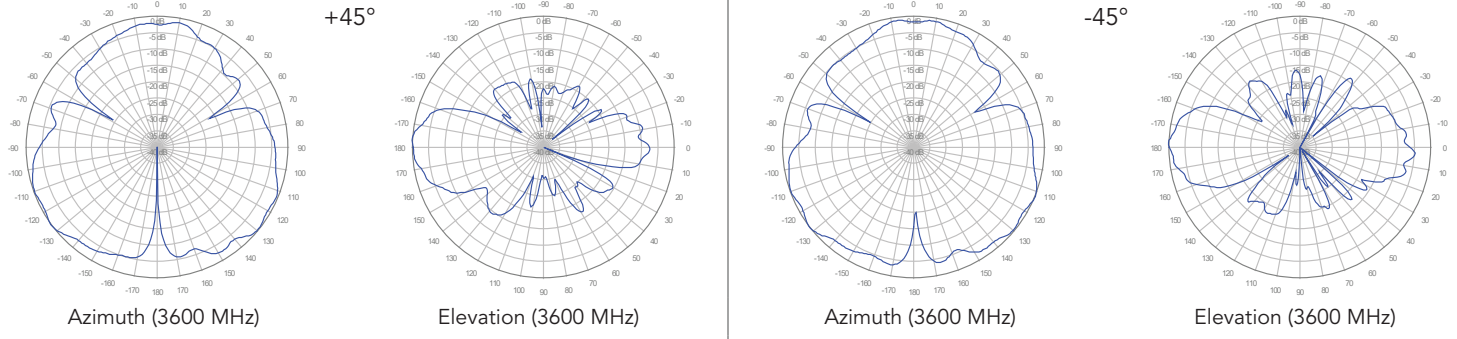
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2C6U4MT360X12Fwxys4

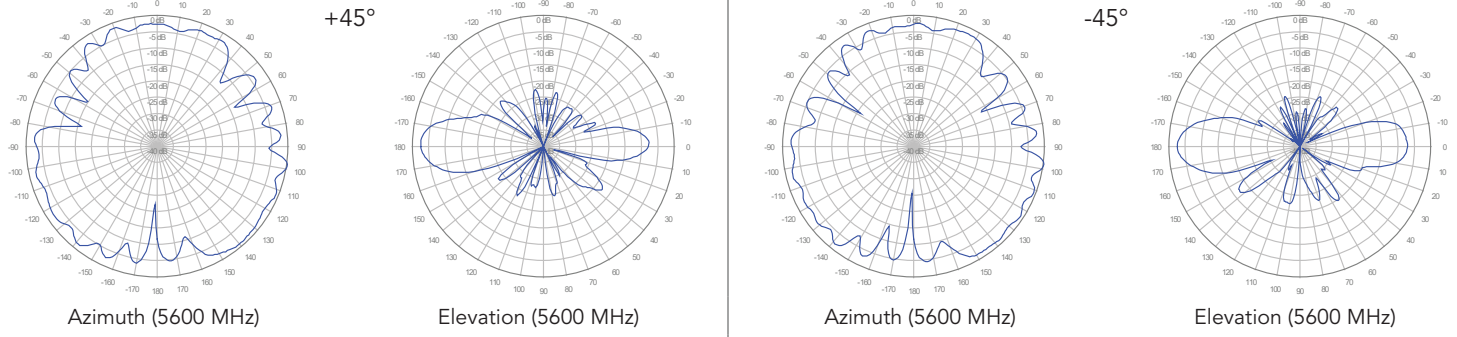
P1, 0° TILT



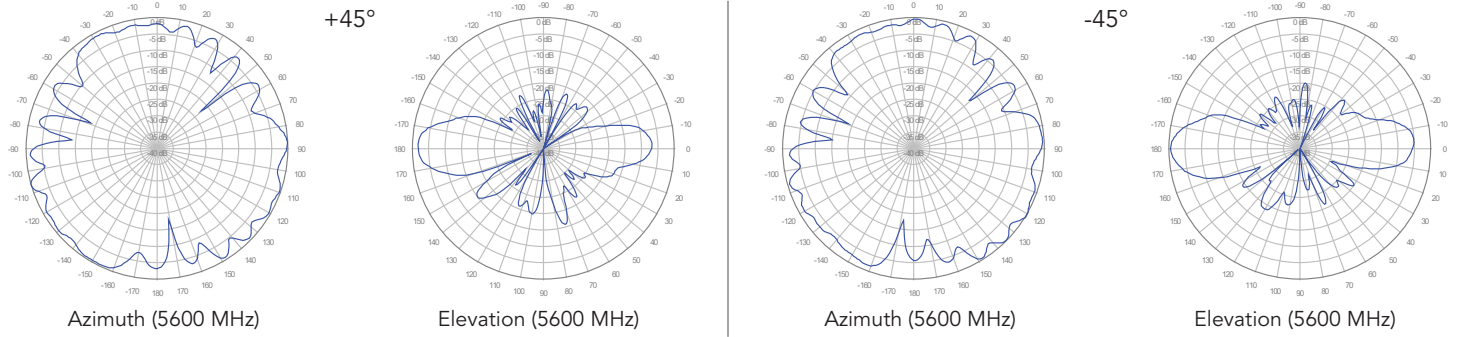
P2, 0° TILT



O1, 0° TILT



O2, 0° TILT



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