

## 2C4U3MT360X06Fwxys3



### Features

- 4G/5G Pseudo Omni configuration with 18 connectors
- Ideal for Small Cell / DAS applications
- Features extended CBRS Band from 3300 to 4200 MHz
- 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 (2x) 696-960		MID BAND (4x) 1695-2700				CBRS BAND (2x) 3300-4200		LAA BAND (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)	360°		360°				360°		360°
	Electrical Downtilt	0°		2°, 4°, 6°				0°		0°
	Configuration	OMNI CONFIGURATION								
	Total Connector Count	18 PORTS								
	Connector Type	4.3-10 FEMALE								
	Dimensions	610 x Ø371 mm (24.0 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	4.2 ± 0.9
	MAX	dBi	5.1
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	96.9° ± 26.7°	72.0° ± 21.7°
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	
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
Input Power	Watts	500W	

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## 2C4U3MT360X06FwxyS3

### 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	7.0 ± 0.6	7.3 ± 0.9	7.0 ± 0.9	7.2 ± 0.8
	MAX	dBi	7.6	8.2	7.9	8.0
Azimuth Beamwidth (3 dB)	degrees	360°	360°	360°	360°	
Elevation Beamwidth (3 dB)	degrees	35.2° ± 8.7°	31.6° ± 7.1°	32.0° ± 18.9°	25.0° ± 7.0°	
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				
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	5.7 ± 0.4
	MAX	dBi	6.1
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	26.5° ± 4.3°	
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

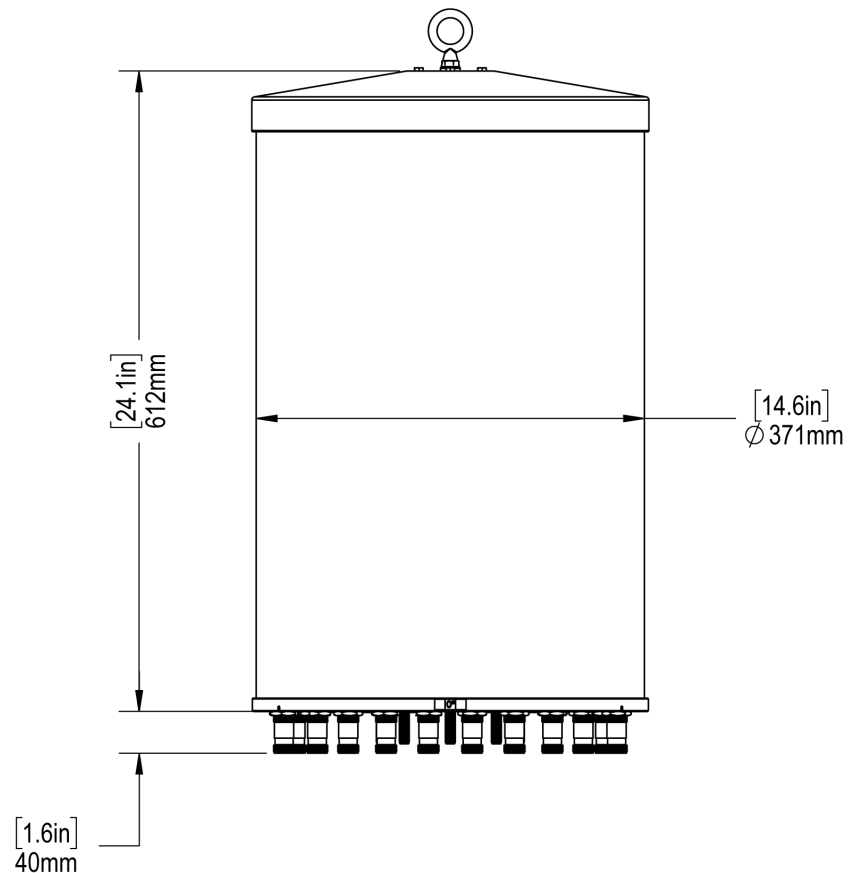
Frequency Range	MHz	(1x) 5150-5925	
Polarization	---	(1x) ±45°	
Gain	BASTA	dBi	5.0 ± 1.1
	MAX	dBi	6.1
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	20.8° ± 2.2°	
Electrical Downtilt	degrees	(y) 0°	
Impedance	Ohms	50Ω	
VSWR	---	≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBc	N/A	
Upper Sidelobe Suppression	dB	Meets FCC requirements upper pattern control for use in LAA outdoor network	
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)	612 (24.1)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	11.3 (25.0)
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	---	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

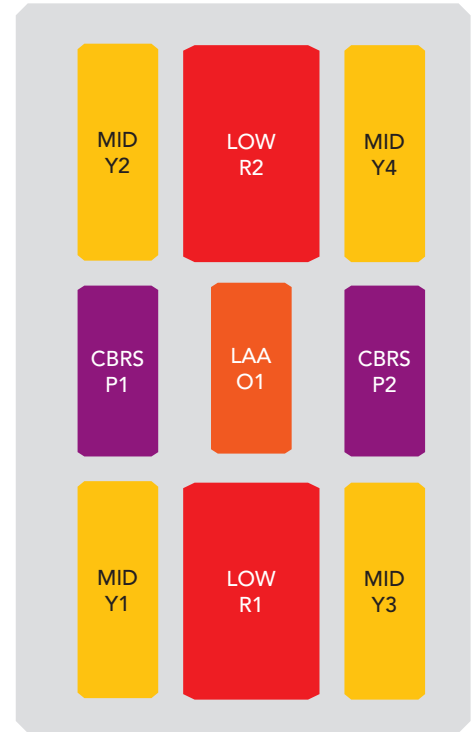


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### ARRAY LAYOUT Topology

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	3300-4200	P1	13-14 (2x) 4.3-10 Female
	3300-4200	P2	15-16 (2x) 4.3-10 Female
LAA BAND	5150-5925	O1	17-18 (2x) 4.3-10 Female

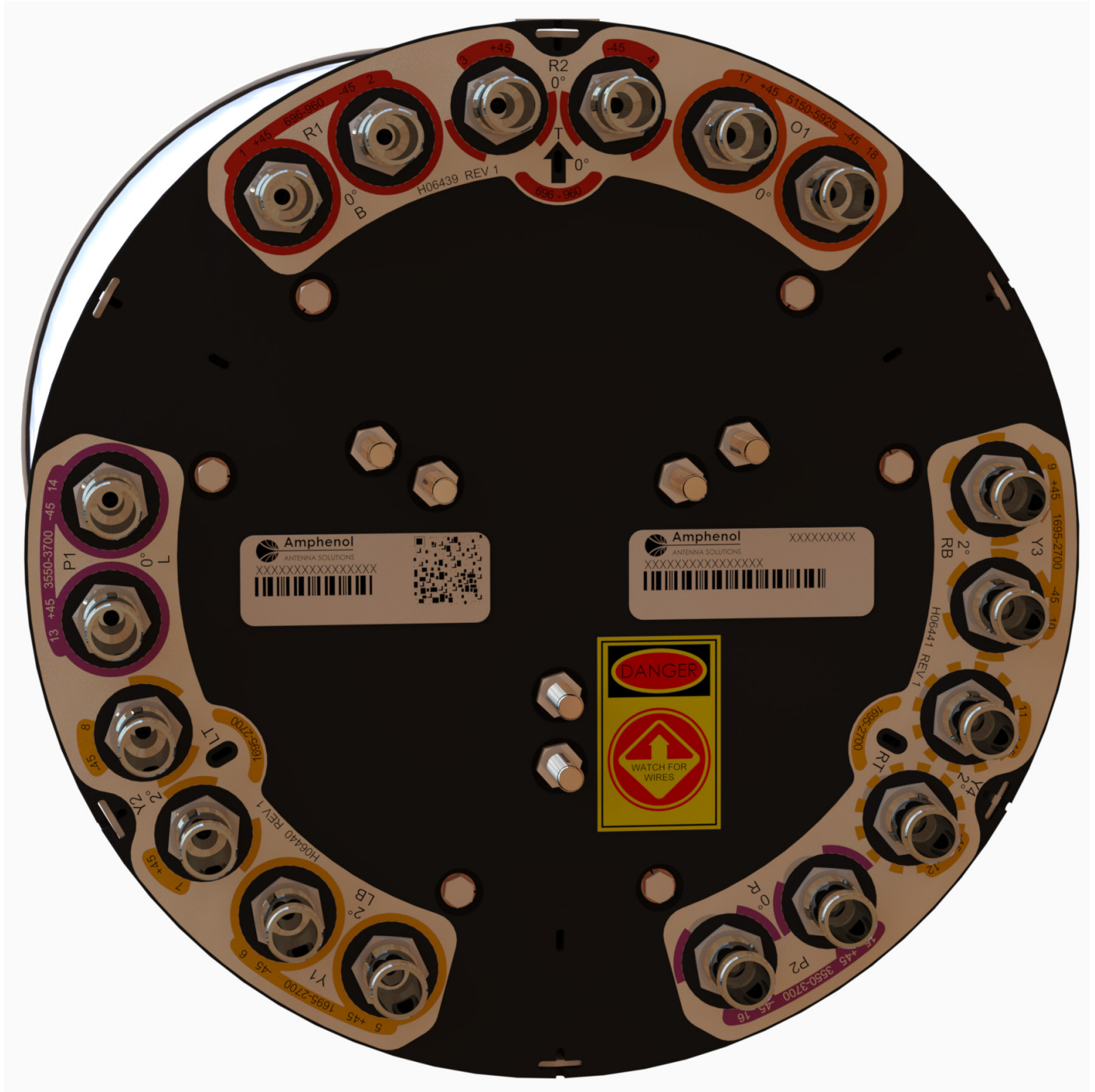


The illustration is not shown to scale.

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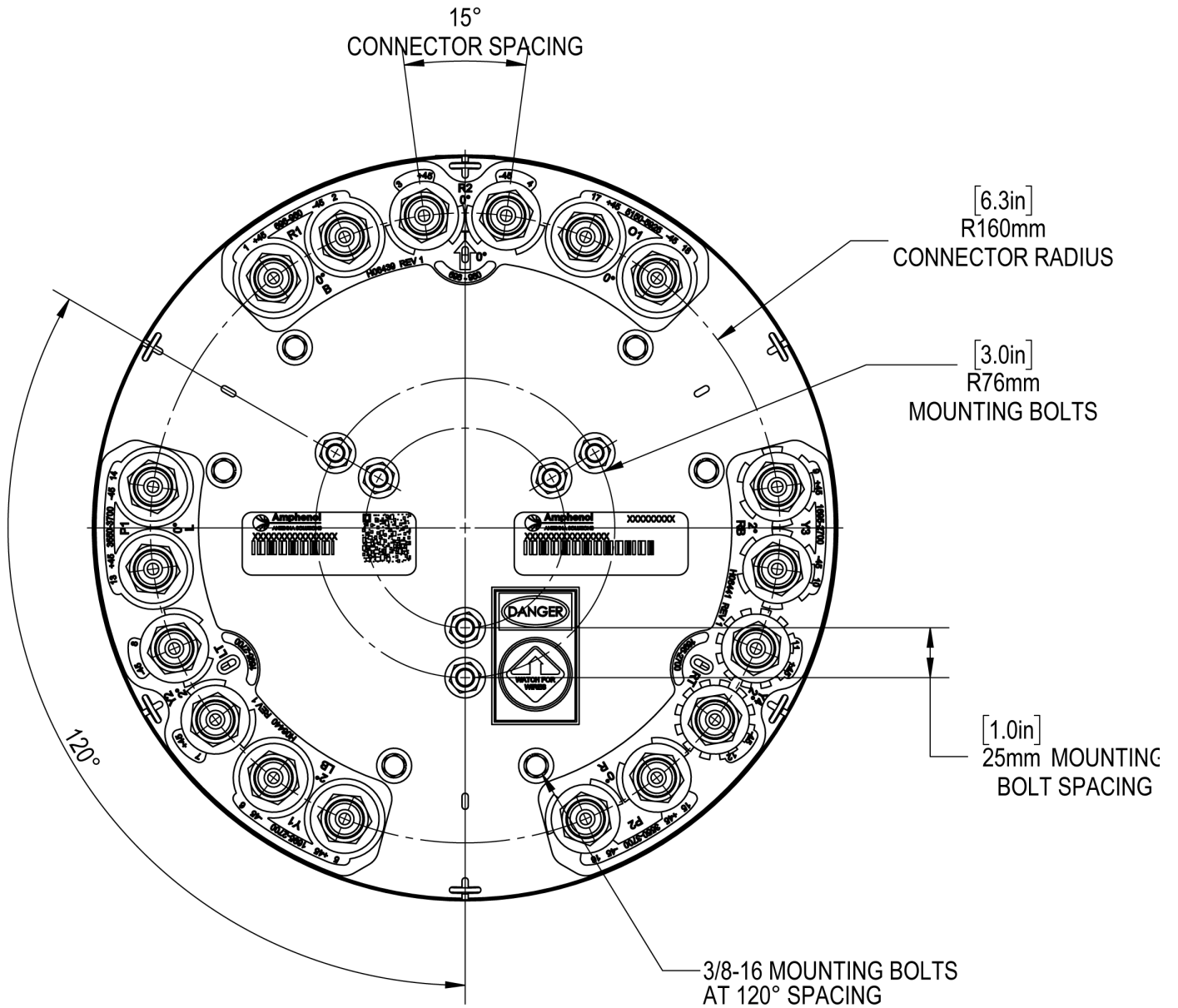
BOTTOM VIEW - LABELING



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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.

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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 and OPERATING FREQUENCY				PATTERN TYPE	AZIMUTH BMWIDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
2C	4U	3M		T	360	X	06	F	wxy	s	3	BK BR
(2x) 696-960	(4x) 1695-2700	(2x) 3300-4200	(1x) 5150-5925	Tri-Sector	360° Omni	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	3rd generation 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

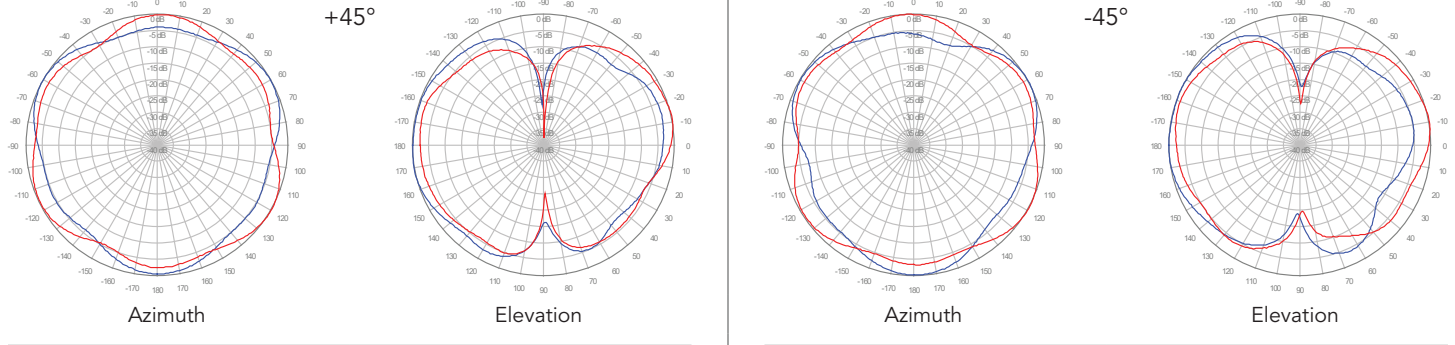
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND				ORDER MODEL NUMBER	18-CHARACTER ALIAS FOR SELECT ORDERING SYSTEMS
	LOW BAND	MID BAND	CBRS BAND	LAA BAND		
Grey Pantone 420 C	0°	2°	0°	0°	2C4U3MT360X06F020s3	2C4U3MT360X06F02s3
	0°	4°	0°	0°	2C4U3MT360X06F040s3	2C4U3MT360X06F04s3
	0°	6°	0°	0°	2C4U3MT360X06F060s3	2C4U3MT360X06F06s3
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2C4U3MT360X06FAAAs3	2C4U3MT360X06FAAs3
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FBBBs3	2C4U3MT360X06FBBs3
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FCCCs3	2C4U3MT360X06FCCs3
Brown Pantone 476 C	0°	2°	0°	0°	2C4U3MT360X06F020s3BR	2C4U3MT36006F02s3B
	0°	4°	0°	0°	2C4U3MT360X06F040s3BR	2C4U3MT36006F04s3B
	0°	6°	0°	0°	2C4U3MT360X06F060s3BR	2C4U3MT36006F06s3B
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2C4U3MT360X06FAAAs3BR	2C4U3MT36006FAAs3B
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FBBBs3BR	2C4U3MT36006FBBs3B
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FCCCs3BR	2C4U3MT36006FCCs3B
Black RAL 9011	0°	2°	0°	0°	2C4U3MT360X06F020s3BK	2C4U3MT36006F02s3K
	0°	4°	0°	0°	2C4U3MT360X06F040s3BK	2C4U3MT36006F04s3K
	0°	6°	0°	0°	2C4U3MT360X06F060s3BK	2C4U3MT36006F06s3K
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2C4U3MT360X06FAAAs3BK	2C4U3MT36006FAAs3K
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FBBBs3BK	2C4U3MT36006FBBs3K
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2C4U3MT360X06FCCCs3BK	2C4U3MT36006FCCs3K

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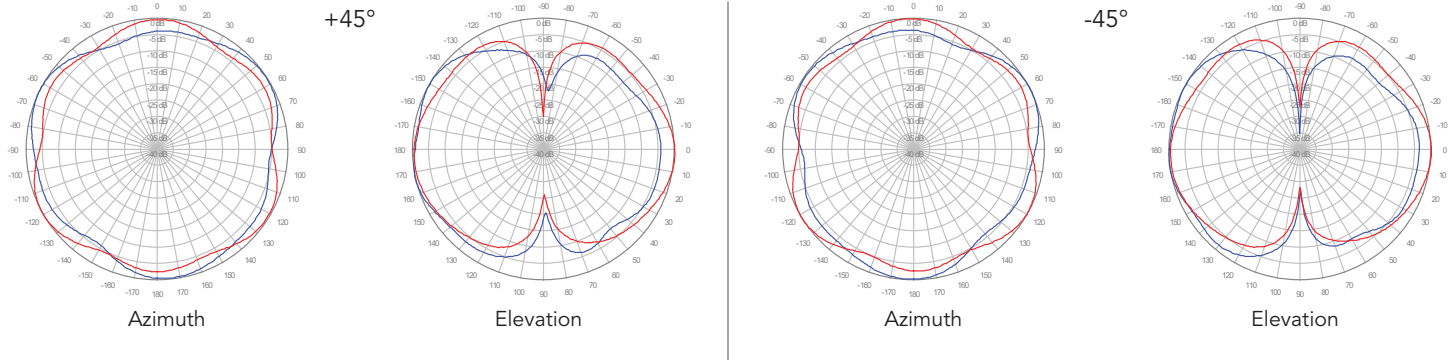
## 2C4U3MT360X06Fwxys3

750 MHz ————  
850 MHz ————

**R1, 0° TILT**



**R2, 0° TILT**

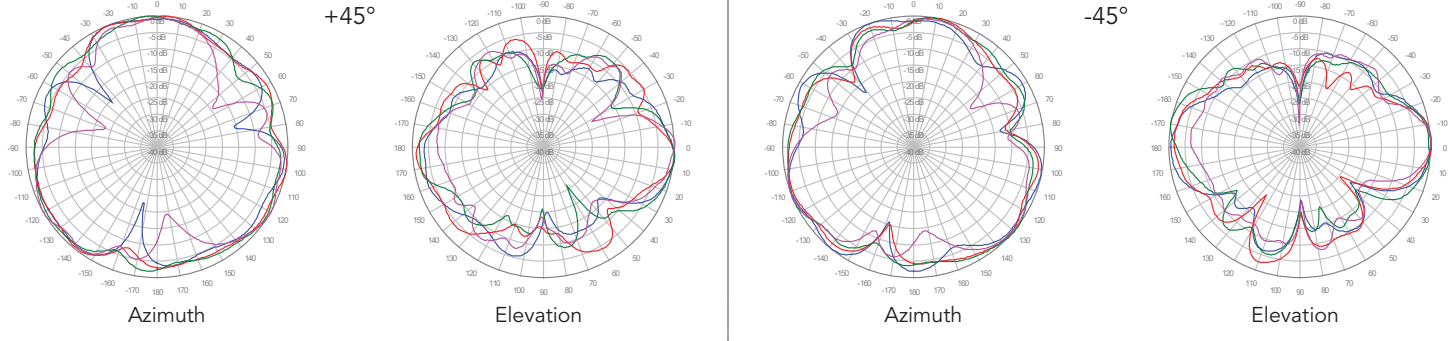


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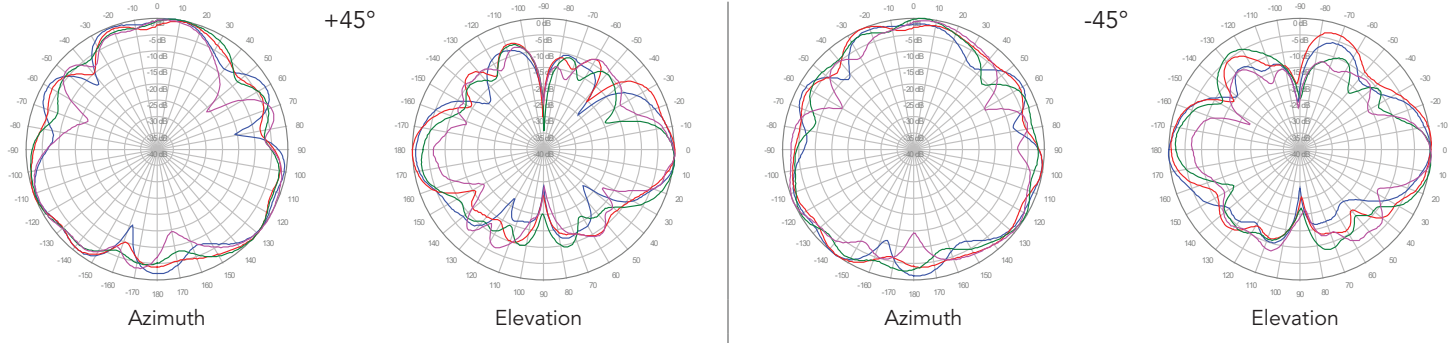
## 2C4U3MT360X06Fwxys3

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

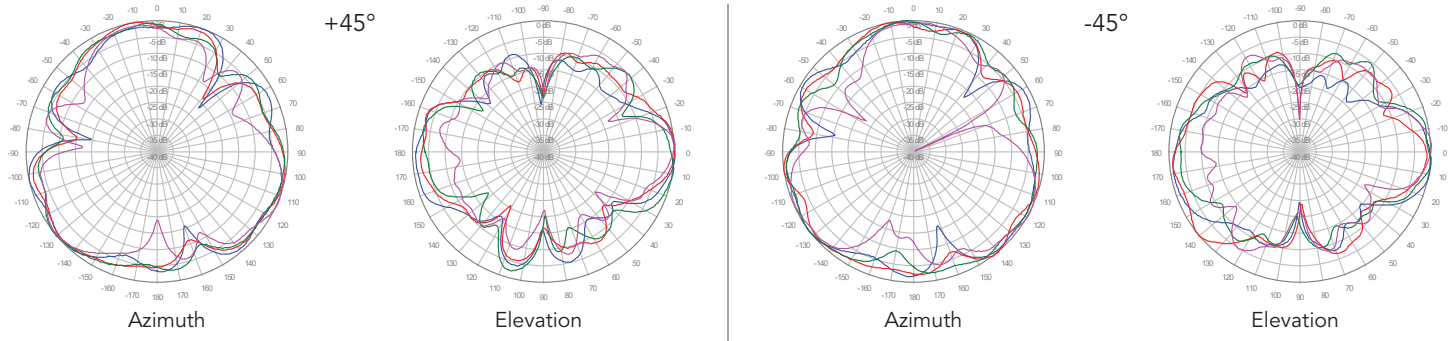
### Y1, 2° TILT



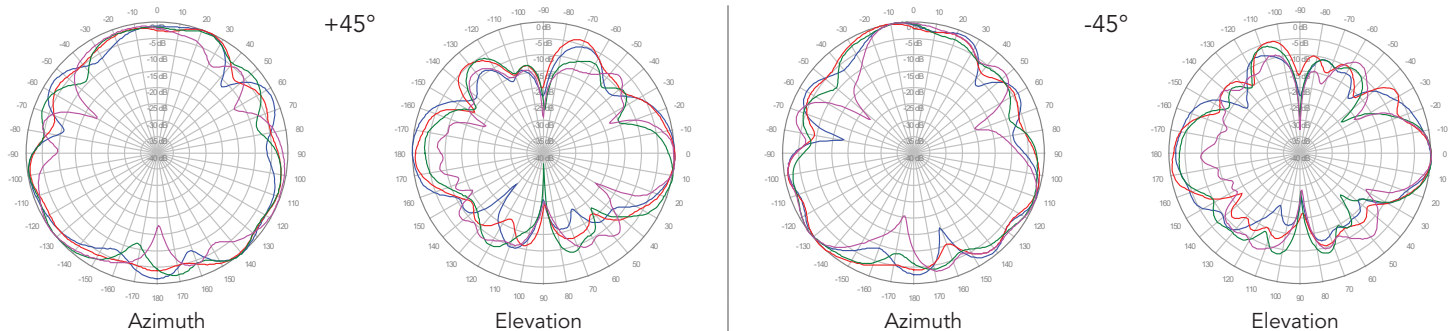
### Y2, 2° TILT



### Y3, 2° TILT



### Y4, 2° TILT

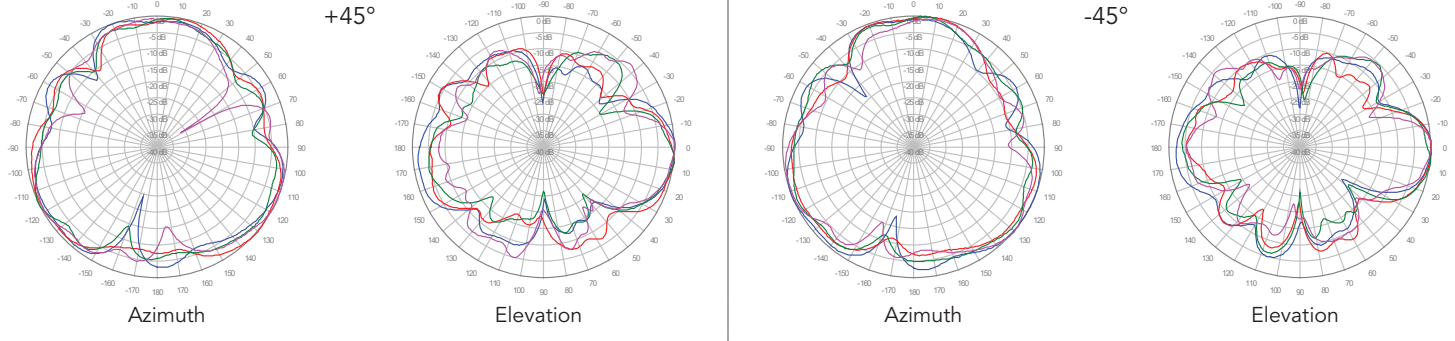


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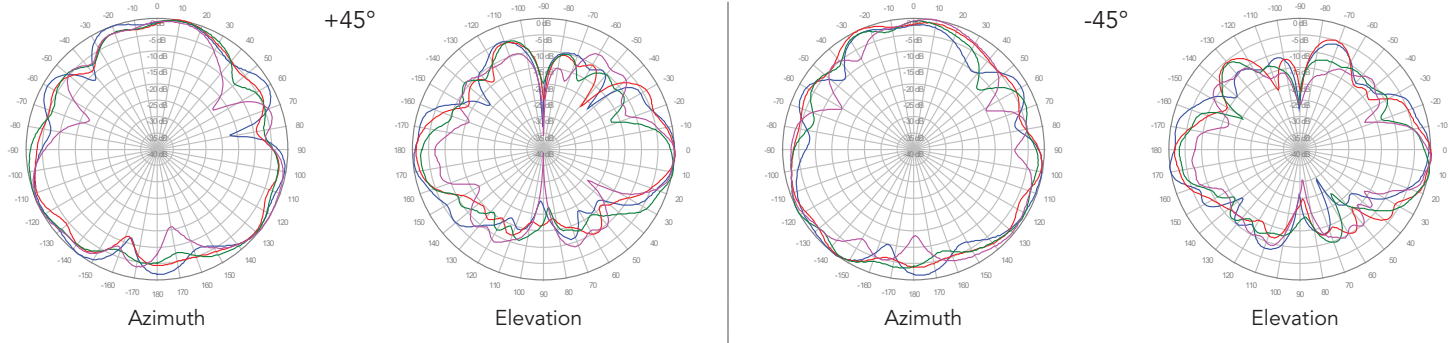
## 2C4U3MT360X06Fwxys3

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

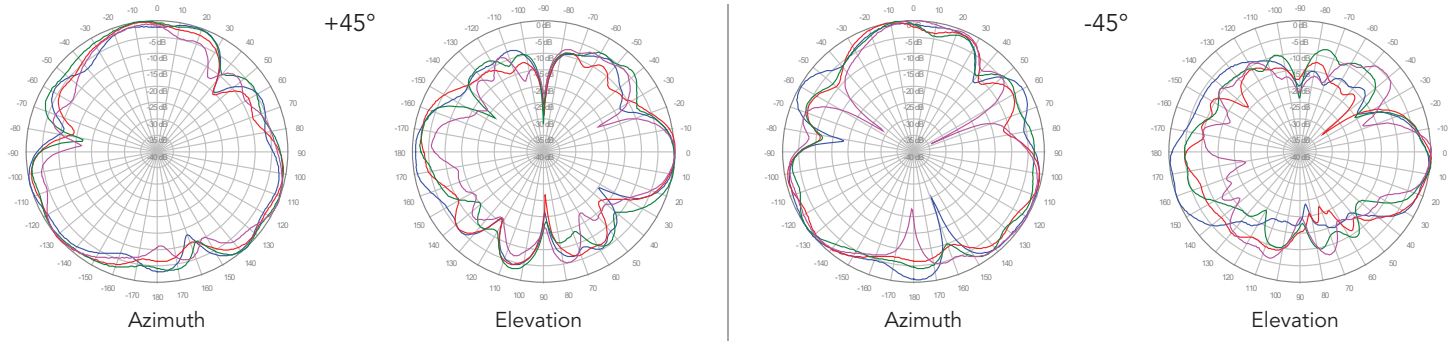
### Y1, 4° TILT



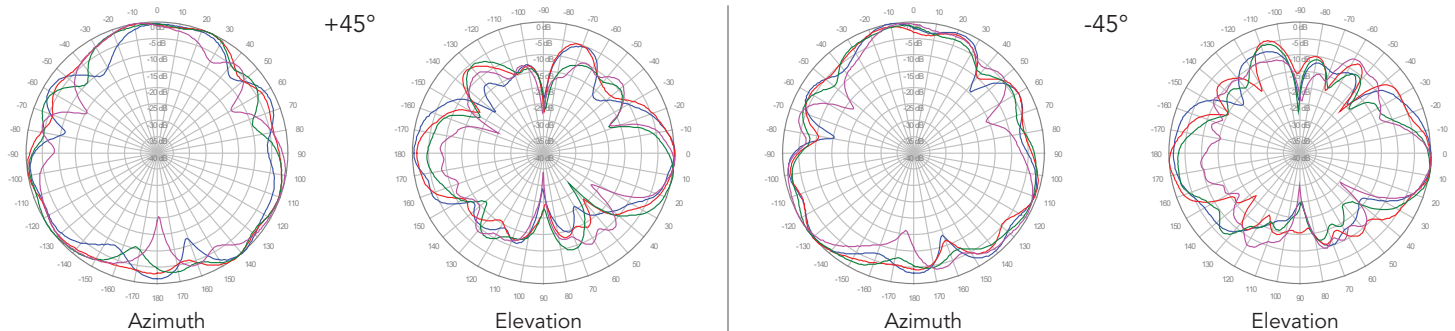
### Y2, 4° TILT



### Y3, 4° TILT



### Y4, 4° TILT



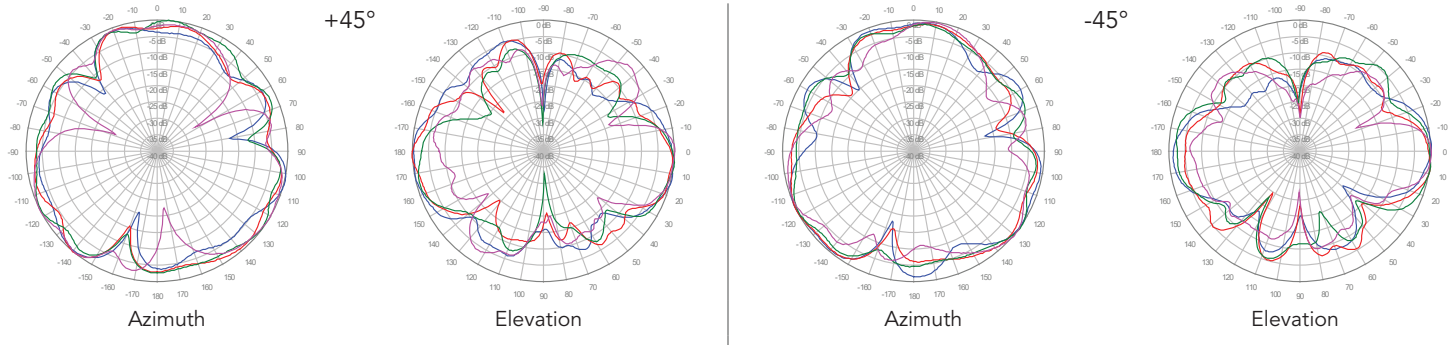
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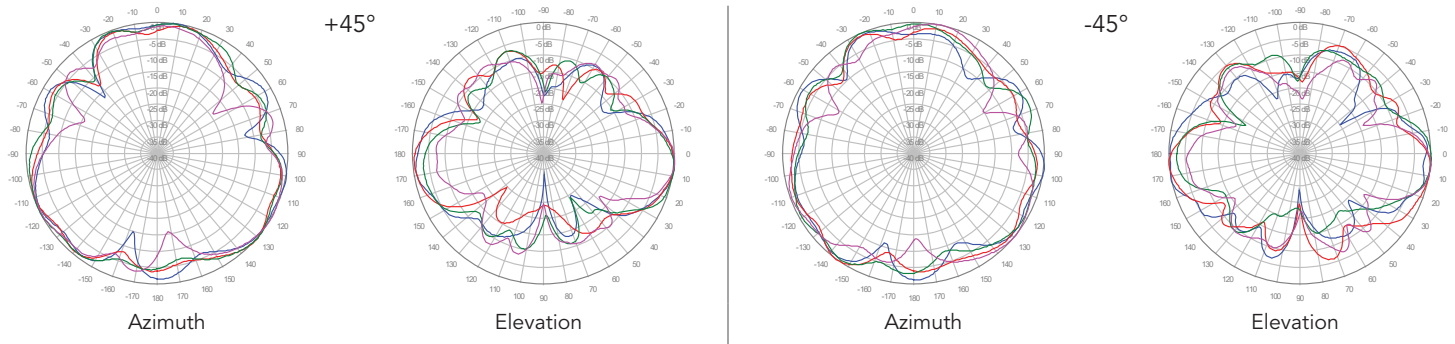
## 2C4U3MT360X06Fwxys3

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

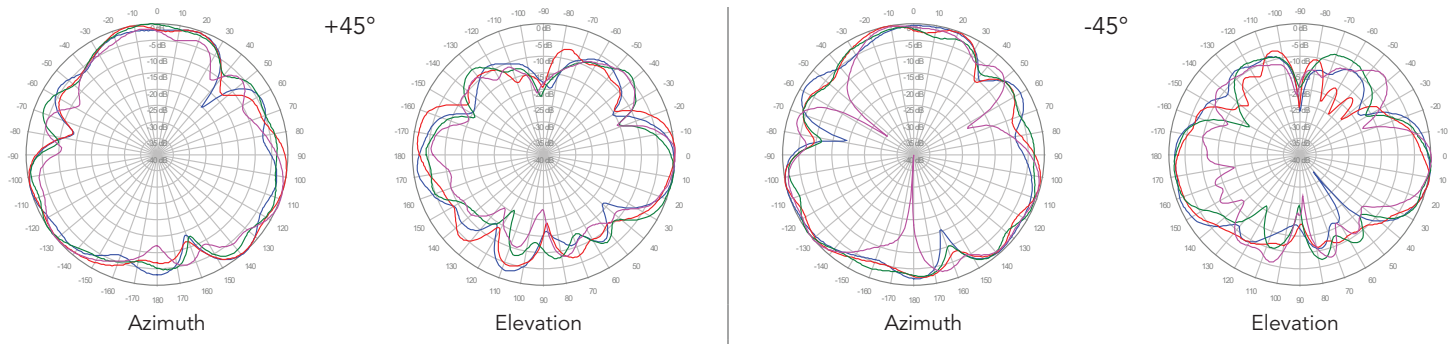
### Y1, 6° TILT



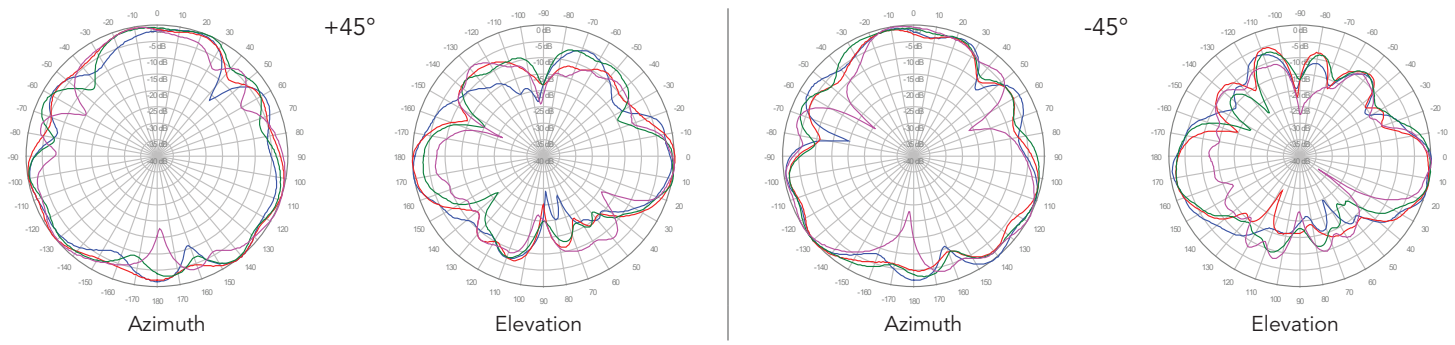
### Y2, 6° TILT



### Y3, 6° TILT



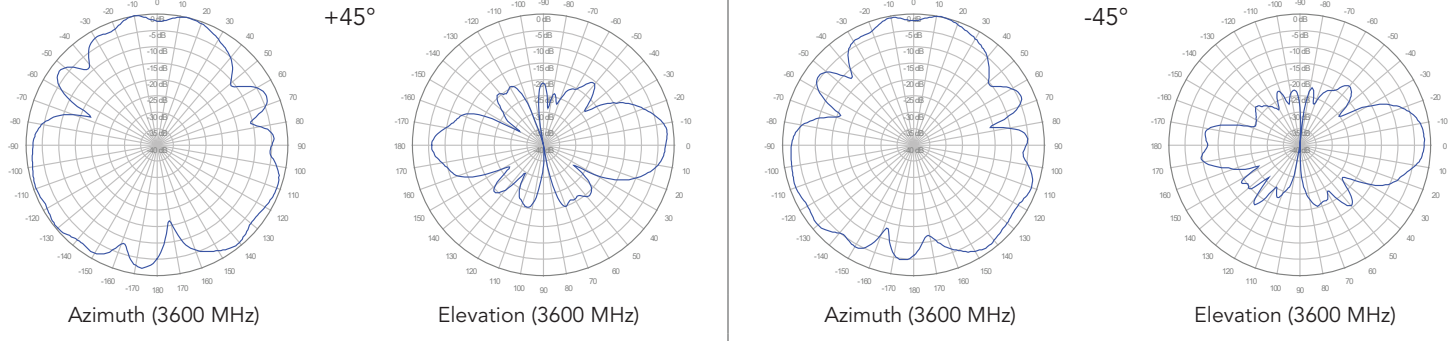
### Y4, 6° TILT



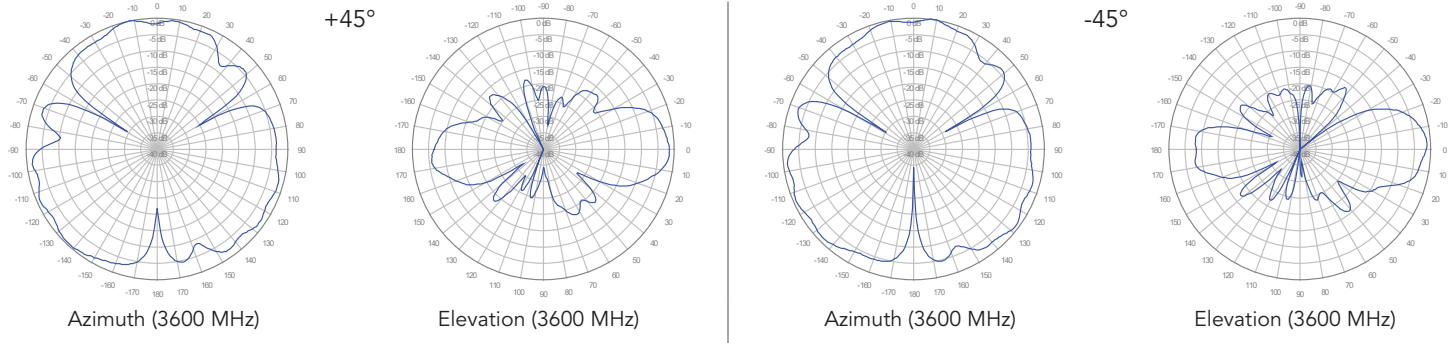
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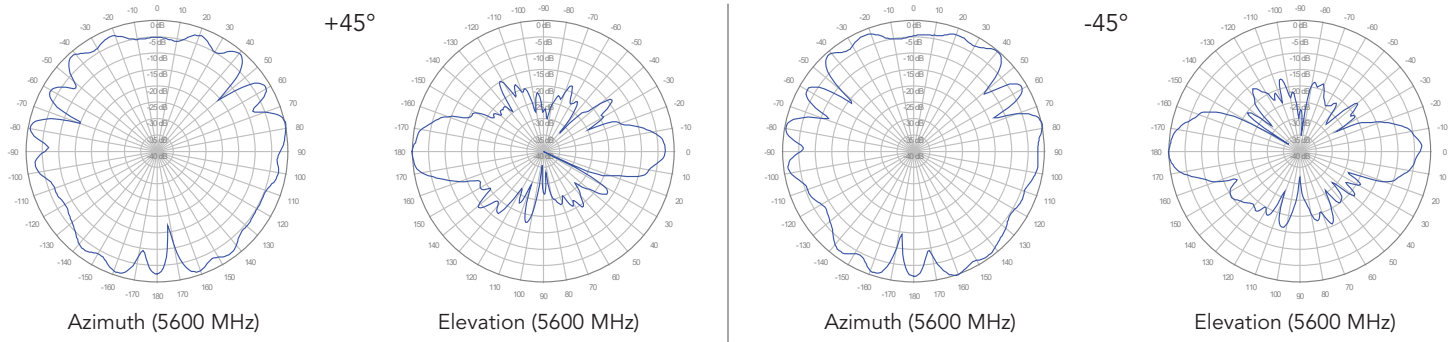
**P1, 0° TILT**



**P2, 0° TILT**



**O1, 0° TILT**



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