

## 2L4UT360X06F<sub>xy</sub>s4



### Features

- 4G/5G pseudo omni configuration with 12 connectors
- Ideal for 4x4 MIMO deployments
- New, enhanced mechanical design
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR

PRODUCT OVERVIEW	Frequency Range (MHz)	(2x) 617-906	(4x) 1695-2700
	Array	■ R1 ■ R2	■ Y1 ■ Y2 ■ Y3 ■ Y4
	Connector	4 PORTS	8 PORTS
	Polarization	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°
	Electrical Downtilt	0°	2°, 4°, 6°
	Configuration	OMNI CONFIGURATION	
	Maximum Continuous Power Per Port @ 50° C (122° F)	500 W	300 W
	Maximum Total Continuous Power at 50° C (122° F)	4400 W	
	Connector Type	(12x) 4.3-10 FEMALE	
	Dimensions	608 x Ø371 mm (24.0 x Ø14.6 in)	
	Radome Color Options	GREY, BROWN or BLACK	

### ELECTRICAL SPECIFICATIONS

■ R1 ■ R2

Frequency Range		MHz	(2x) 617-906	
Frequency Sub-Range		MHz	617-806	806-906
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	4.3 ± 0.9	4.5 ± 0.7
	MAX	dBi	5.2	5.2
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	78.0° ± 35.6°	62.9° ± 16.4°
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	> 25	
	Interband	dB	> 28	

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### ELECTRICAL SPECIFICATIONS

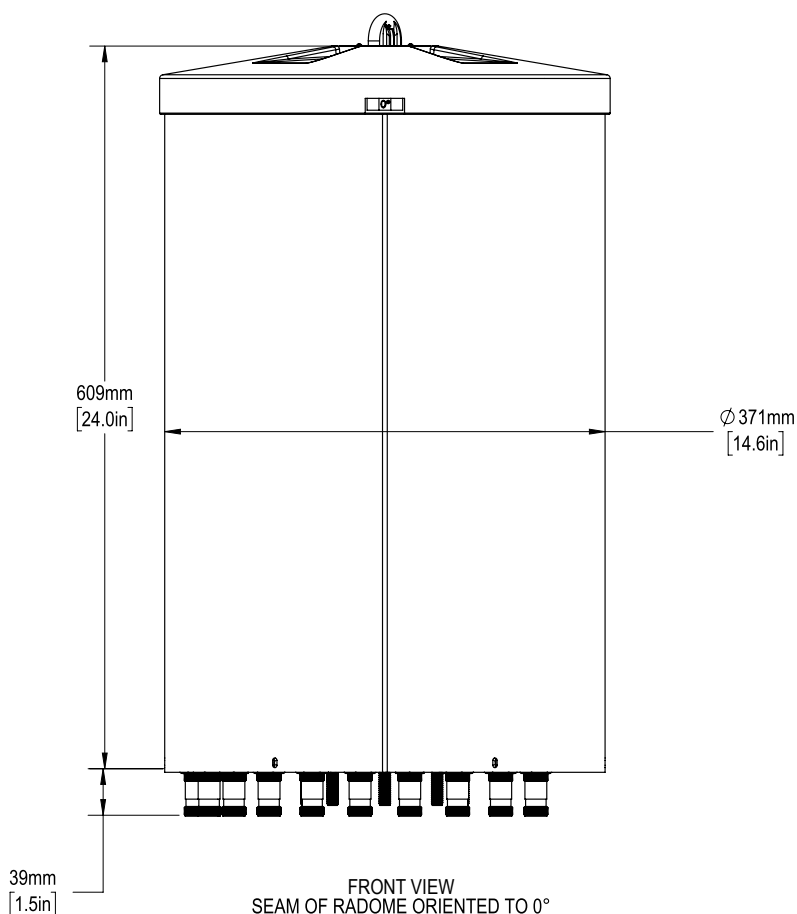
■ Y1 ■ Y2 ■ Y3 ■ Y4

Frequency Range		MHz	(4x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(4x) ±45°			
Gain	BASTA	dBi	5.5 ± 1.0	5.9 ± 0.7	6.4 ± 1.3	7.3 ± 1.0
	MAX	dBi	6.5	6.6	7.7	8.3
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	34.8° ± 7.2°	32.0° ± 9.9°	29.2° ± 8.8°	25.2° ± 7.0°
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			
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28			

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### MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	609 (24.0)
	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 <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	---	(12x) 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

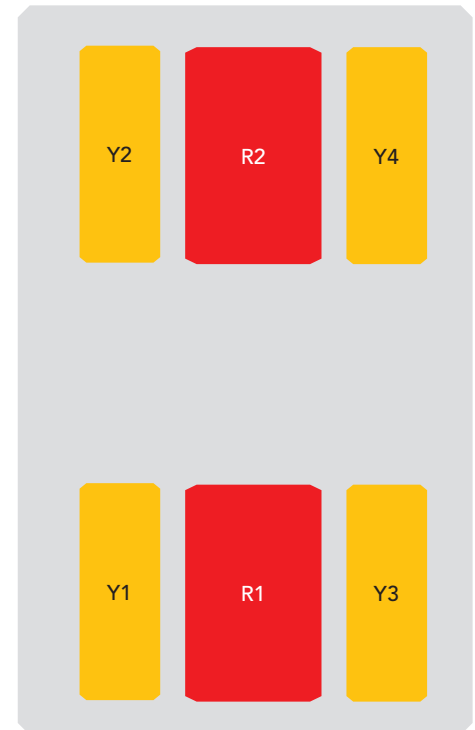


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### ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
617-906 MHz	<span style="color: red;">■</span> R1	1-2	(2x) 4.3-10 Female
617-906 MHz	<span style="color: red;">■</span> R2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y1	5-6	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y2	7-8	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y3	9-10	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y4	11-12	(2x) 4.3-10 Female



*The illustration is not shown to scale.*

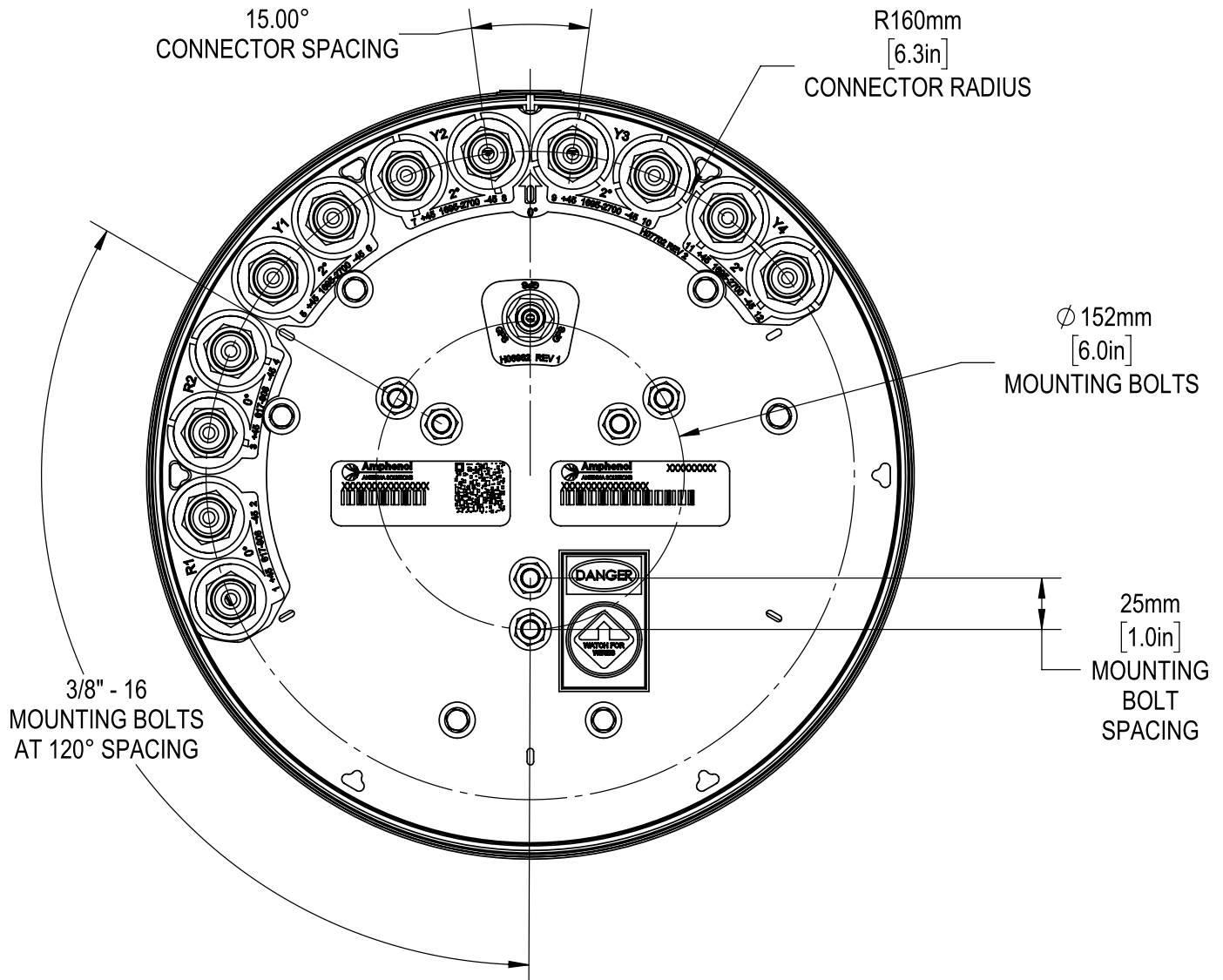
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**BOTTOM VIEW - LABELING**



## 2L4UT360X06F<sub>xy</sub>s4

### 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 BMWDTH	POLARIZA-TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
2L	4U	T	360	X	06	F	xy	s	4	BK BR
(2x) 617-906	(4x) 1695-2700	Tri-Sector	360°	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	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		MODEL NUMBER
	617-906 MHz	1695-2700 MHz	
Grey Pantone 420 C	0°	2°	2L4UT360X06F02s4
	0°	4°	2L4UT360X06F04s4
	0°	6°	2L4UT360X06F06s4
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	2L4UT360X06FAAs4
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	2L4UT360X06FBBs4
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	2L4UT360X06FCCs4
Brown Pantone 476 C	0°	2°	2L4UT360X06F02s4BR
	0°	4°	2L4UT360X06F04s4BR
	0°	6°	2L4UT360X06F06s4BR
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	2L4UT360X06FAAs4BR
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	2L4UT360X06FBBs4BR
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	2L4UT360X06FCCs4BR
Black RAL 9011	0°	2°	2L4UT360X06F02s4BK
	0°	4°	2L4UT360X06F04s4BK
	0°	6°	2L4UT360X06F06s4BK
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	2L4UT360X06FAAs4BK
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	2L4UT360X06FBBs4BK
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	2L4UT360X06FCCs4BK

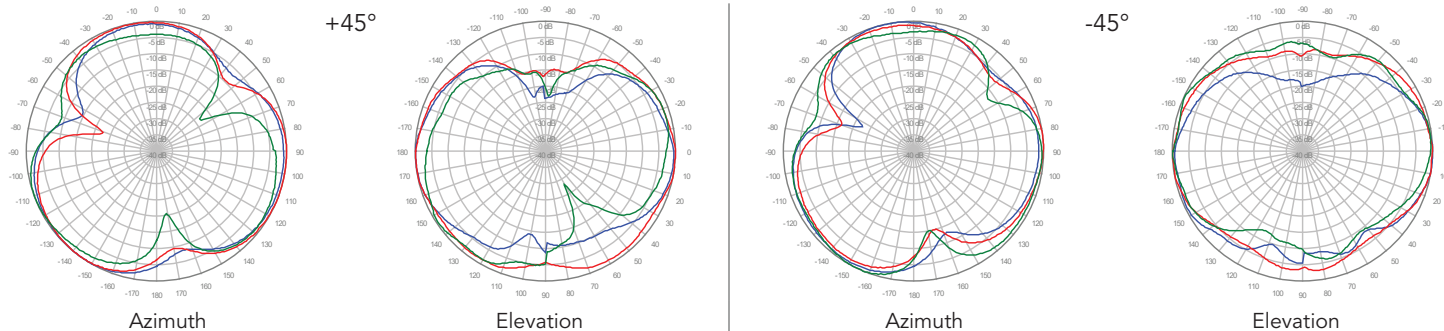
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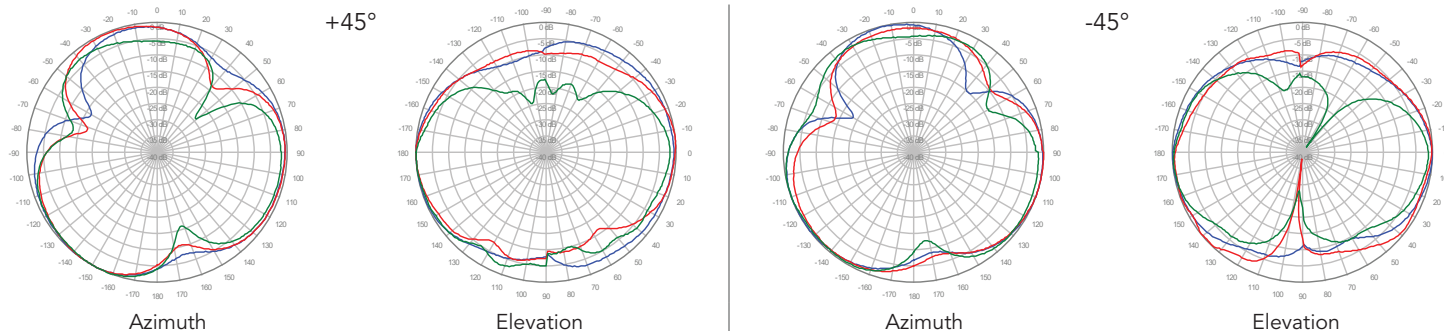
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650 MHz —  
750 MHz —  
850 MHz —

■ R1, 0° TILT



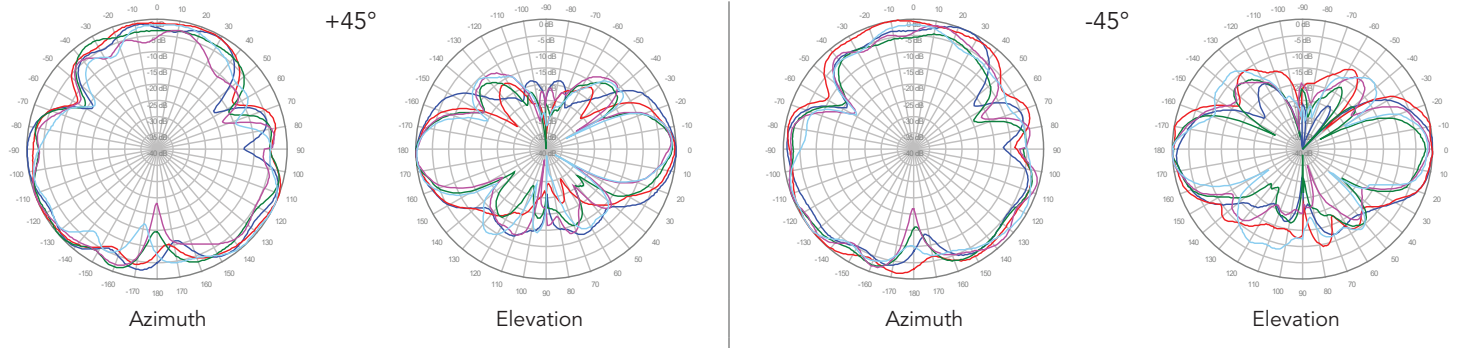
■ R2, 0° TILT



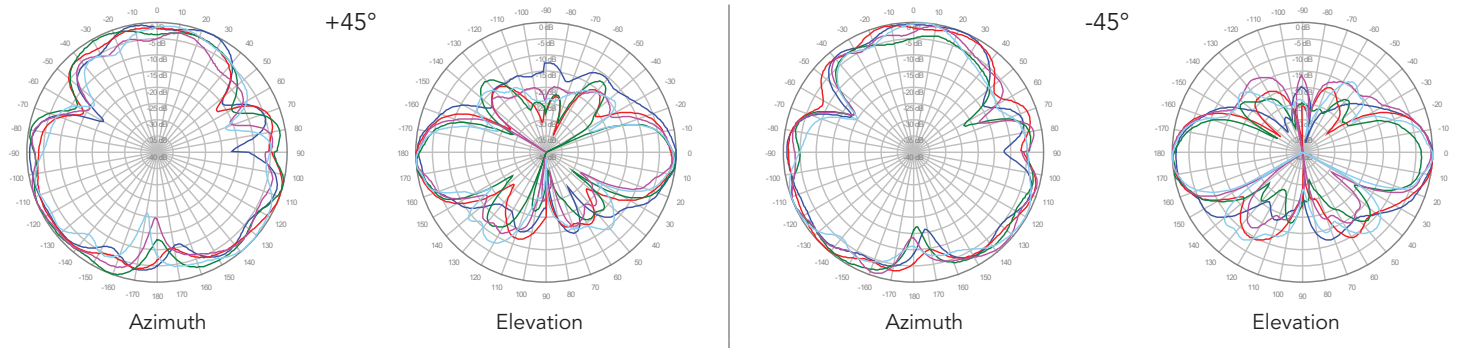
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1800 MHz —  
1900 MHz —  
2100 MHz —  
2300 MHz —  
2600 MHz —

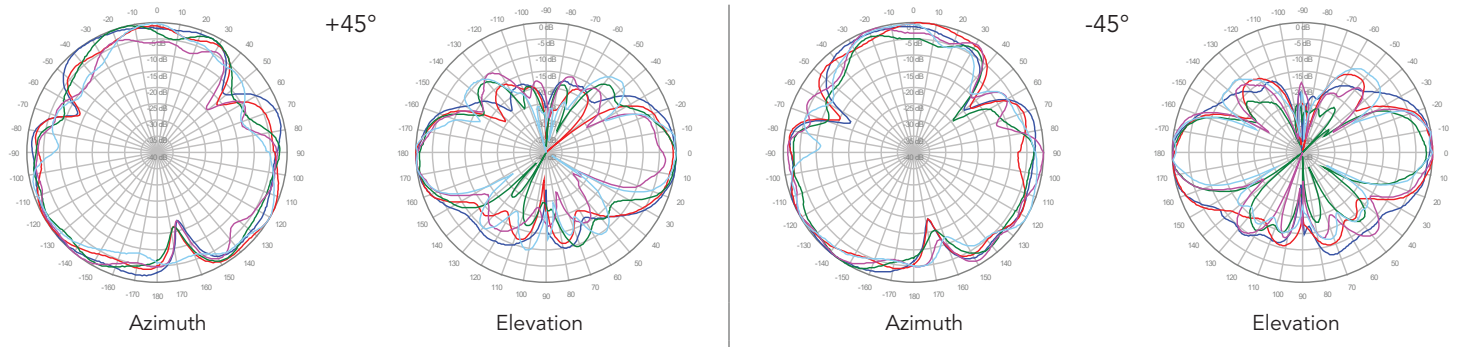
### Y1, 2° TILT



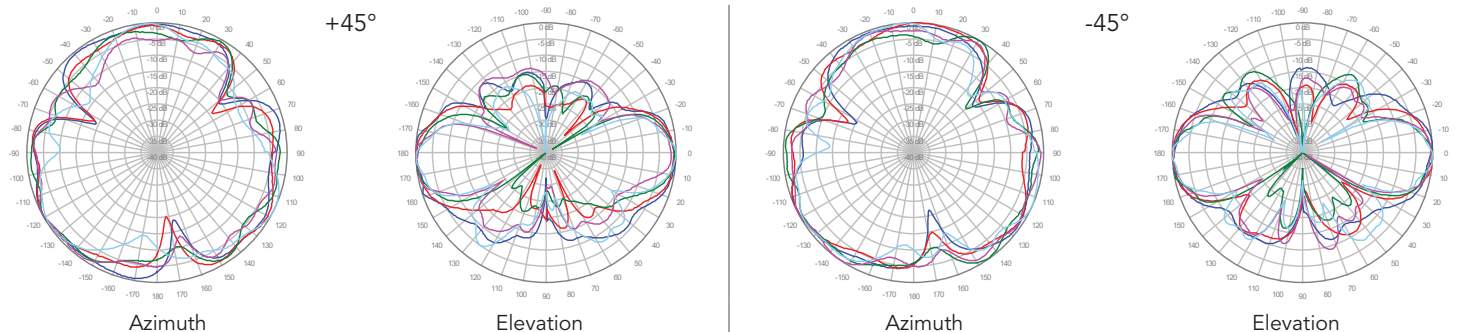
### Y2, 2° TILT



### Y3, 2° TILT



### Y4, 2° TILT



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