Amphenol ANTENNA SOLUTIONS

14-Port Canister Antenna

(2x) 617-906 | (2x) 1695-2700 | (2x) 3300-4200 | (1x) 5150-5925 MHz

OMNI | 23.9 IN | FIXED TILT

2L2U3MT360X06Fwxys4A

Features

- Pseudo omni configuration with 14 connectors
- Ideal for multi-carrier or 4x4 MIMO deployments
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR
- This antenna meets the requirements of the U-NII

PRODUCT OVERVIEW					
	Frequency Range (MHz)	(2x) 617-906	(2x) 1695-2700	(2x) 3300-4200	(1x) 5150-5925
	Array	R1 R2	Y1 Y2	P1 P2	O1
	Connector	4 PORTS	4 PORTS	4 PORTS	2 PORT
	Polarization	XPOL	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°	360°	360°
	Electrical Downtilt	0°	2°, 4°, 6°	0°	0°
	Configuration	OMNI CONFIGURATION			
	Maximum Continuous Power Per Port @ 50° C (122° F)	500 WATTS	300 WATTS	100 WATTS	50 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	3700 WATTS			
	Connector Type	(14x) 4.3-10 FEMALE			
	Dimensions	608 x Ø371 mm (23.9 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	617-698	698-798	800-906
Polarization		---	(2x) ±45°		
Gain	BASTA	dBi	4.6 ± 0.7	4.5 ± 0.7	4.5 ± 0.8
	MAX	dBi	5.3	5.2	5.3
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	65.2° ± 16.4°	61.8° ± 17.1°	51.4° ± 14.5°
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

Frequency Range		MHz	(2x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(2x) ±45°			
Gain	BASTA	dBi	8.7 ± 0.9	9.0 ± 0.9	9.0 ± 0.9	10.2 ± 0.8
	MAX	dBi	9.6	9.9	9.9	11.0
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	22.2° ± 4.3°	20.0° ± 3.0°	18.9° ± 2.6°	15.5° ± 2.0°
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			

ELECTRICAL SPECIFICATIONS

■ P1 ■ P2

Frequency Range		MHz	(2x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(2x) ±45°		
Gain	BASTA	dBi	7.5 ± 0.9	8.6 ± 1.2	9.6 ± 1.0
	MAX	dBi	8.4	9.8	10.6
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	19.2 ± 2.0°	17.6 ± 2.3°	26.5 ± 4.3°
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	N/A		
Isolation	Intraband	dB	> 25		
	Interband	dB	> 28		

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ELECTRICAL SPECIFICATIONS			■ O1
Frequency Range		MHz	(1x) 5150-5925
Polarization		---	(1x) ±45°
Gain	BASTA	dBi	4.0 ± 1.0
	MAX	dBi	5.0
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	19.1° ± 2.4°
Electrical Downtilt		degrees	0°
Impedance		Ohms	50Ω
VSWR		---	≤ 1.5:1
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A
Upper Sidelobe Suppression		dB	Meets all U-NII Compliance Specs
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
U-NII Compliant		---	Yes

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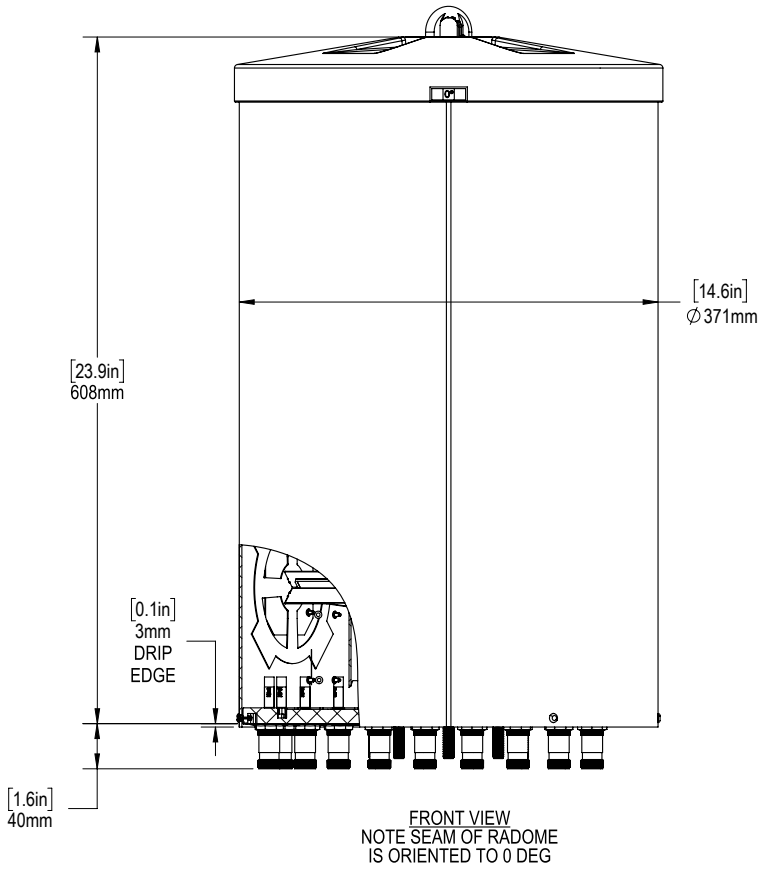
MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	608 (23.9)
	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^2 (ft^2)	0.22 (2.4)
Volume			m^3 (ft^3)	0.07 (2.3)
Connector		Type	---	4.3-10 Female
		Quantity	---	14
		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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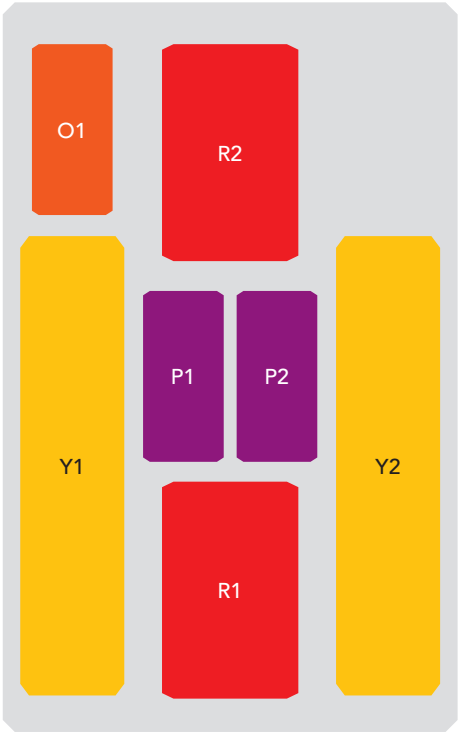
ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
617-906 MHz	R1	1-2	(2x) 4.3-10 Female
617-906 MHz	R2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	Y1	5-6	(2x) 4.3-10 Female
1695-2700 MHz	Y2	7-8	(2x) 4.3-10 Female
3300-4200 MHz	P1	9-10	(2x) 4.3-10 Female
3300-4200 MHz	P2	11-12	(2x) 4.3-10 Female
5150-5925 MHz	O1	13-14	(2x) 4.3-10 Female



The illustration is not shown to scale.

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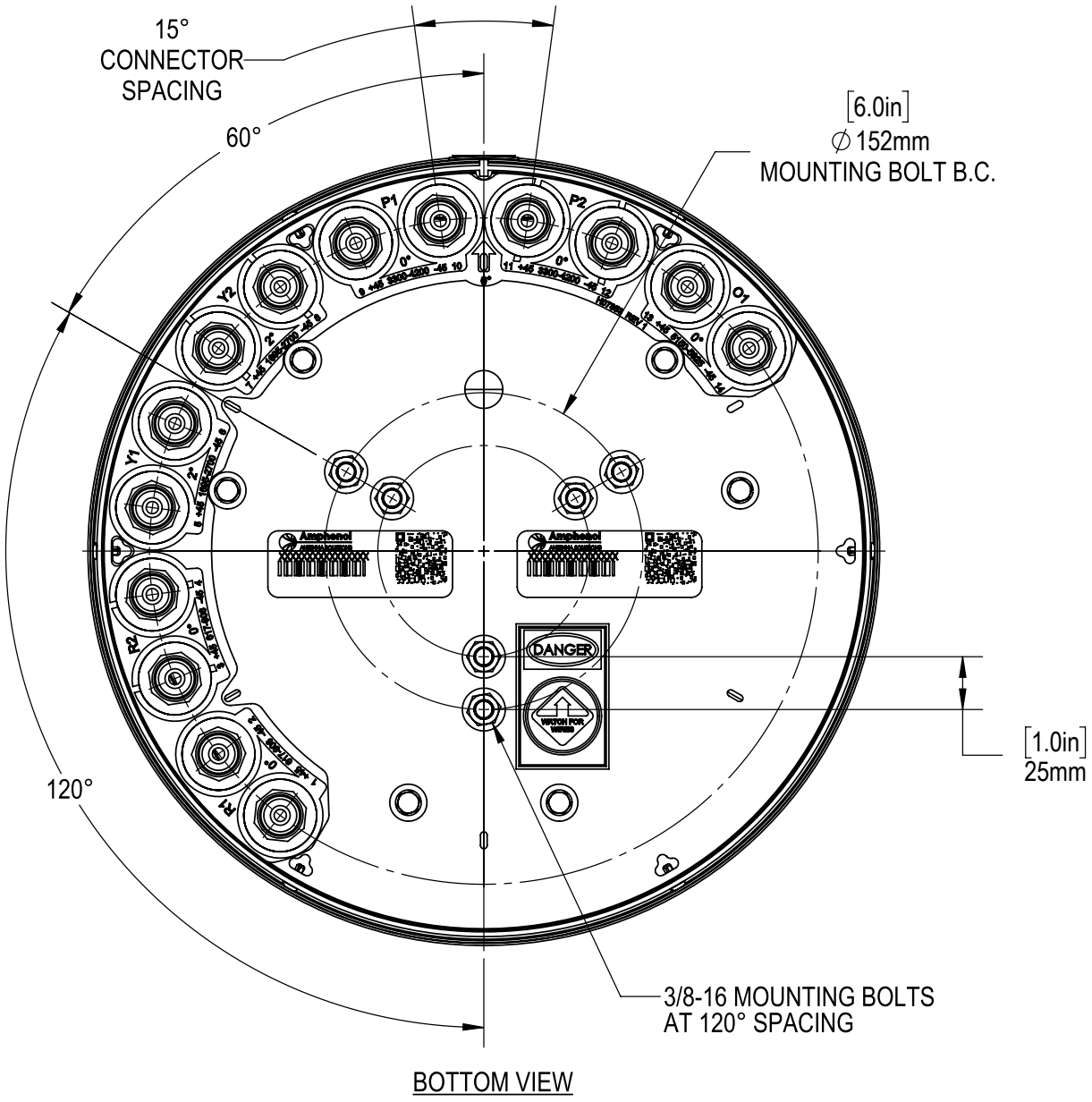
BOTTOM VIEW - LABELING

2L2U3MT360X06Fwxys4A

BOTTOM VIEW - CONNECTOR DIAGRAM



BOTTOM VIEW

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	2U	3M		T	360	X	06	F	wxy	s	4A	BK BR
(2x) 617-906	(2x) 1695-2700	(2x) 3300-4200	(1x) 5150-5925	Tri-Sector	360° Omni	XPOL	0.6 meters	Fixed Tilt	These letters are place-holders for fixed tilt options. Refer to Electrical Specifica-tions for available tilt options.	4.3-10 Connector	4th generation mechanical package The letter "A" indicates this is a variation of a similar antenna. Refer to data sheets to compare differences.	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

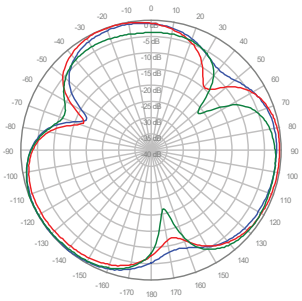
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND				ORDER MODEL NUMBER
	617-906 MHz	1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	
Grey Pantone 420 C	0°	2°	0°	0°	2L2U3MT360X06F020s4A
	0°	4°	0°	0°	2L2U3MT360X06F040s4A
	0°	6°	0°	0°	2L2U3MT360X06F060s4A
Brown Pantone 476 C	0°	2°	0°	0°	2L2U3MT360X06F020s4ABR
	0°	4°	0°	0°	2L2U3MT360X06F040s4ABR
	0°	6°	0°	0°	2L2U3MT360X06F060s4ABR
Black RAL 9011	0°	2°	0°	0°	2L2U3MT360X06F020s4ABK
	0°	4°	0°	0°	2L2U3MT360X06F040s4ABK
	0°	6°	0°	0°	2L2U3MT360X06F060s4ABK

2L2U3MT360X06Fwxys4A

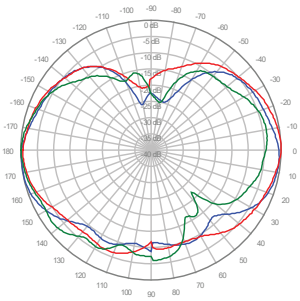
650 MHz
750 MHz
850 MHz

R1, 0° TILT

+45°

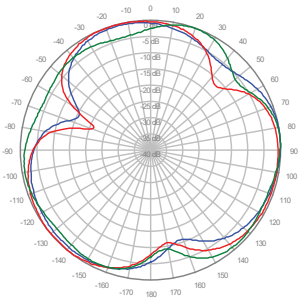


Azimuth



Elevation

-45°



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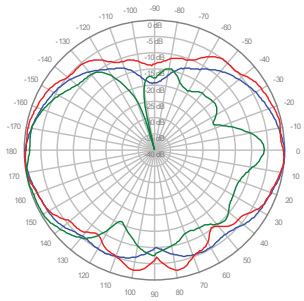
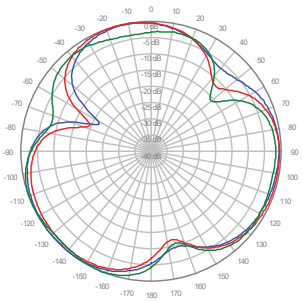


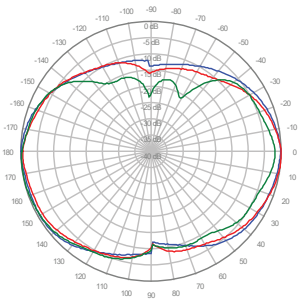
Elevation

R2, 0° TILT

+45°

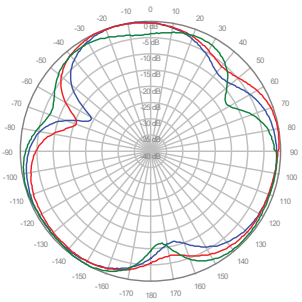


Azimuth



Elevation

-45°



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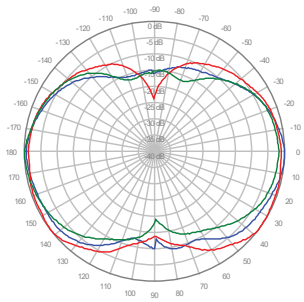


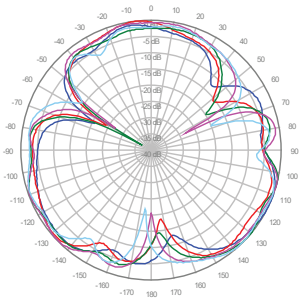
Elevation

2L2U3MT360X06Fwxys4A

1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 2° TILT

+45°



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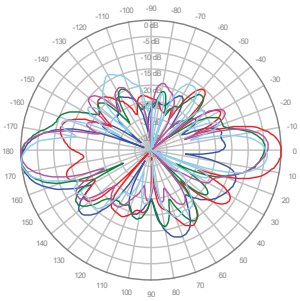
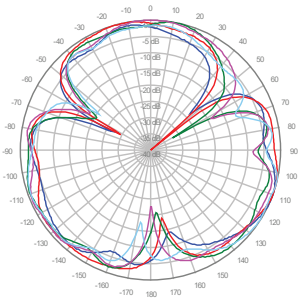
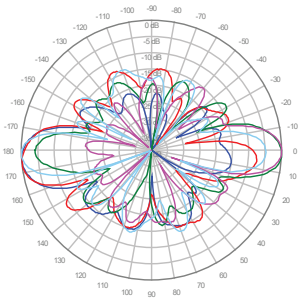


Elevation

-45°



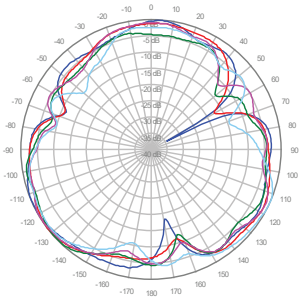
Azimuth



Elevation

Y2, 2° TILT

+45°



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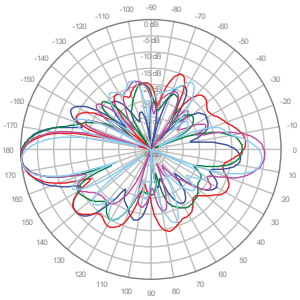
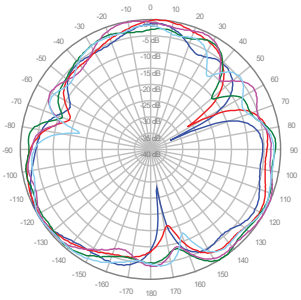


Elevation

-45°



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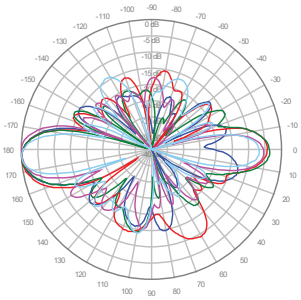
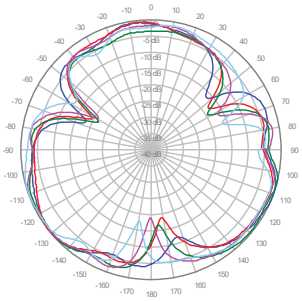


Elevation

Y1, 4° TILT

+45°



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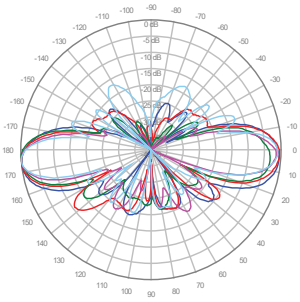
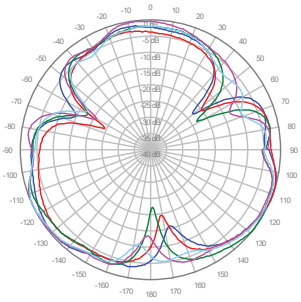


Elevation

-45°



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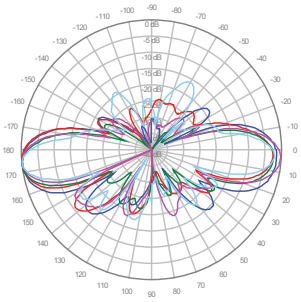
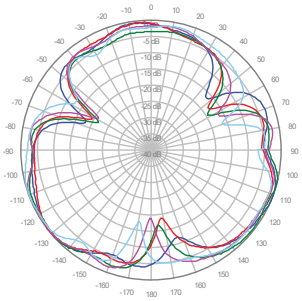


Elevation

Y2, 4° TILT

+45°



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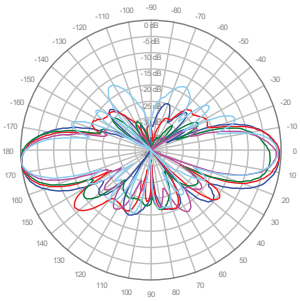
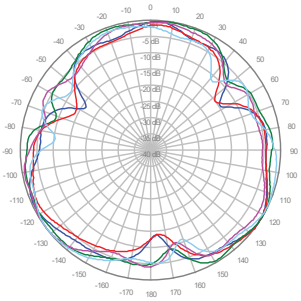


Elevation

-45°



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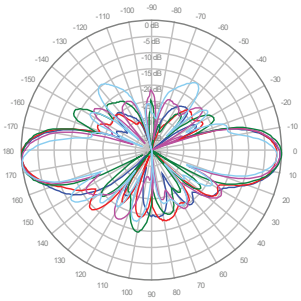

Elevation

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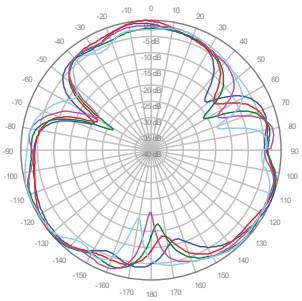
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 6° TILT

+45°



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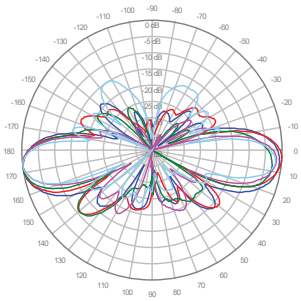
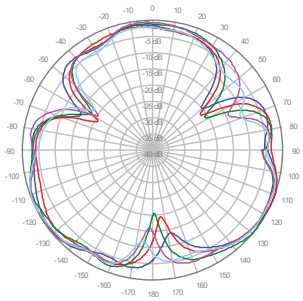


Elevation

-45°



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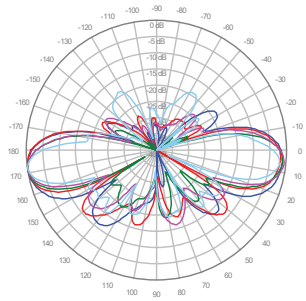
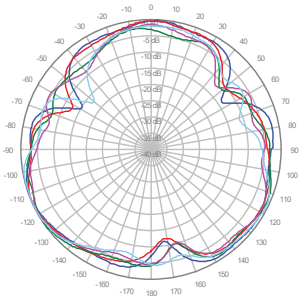


Elevation

Y2, 6° TILT

+45°



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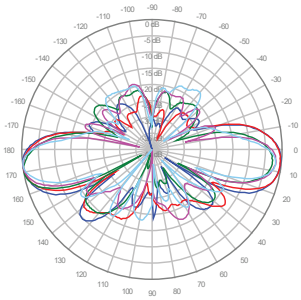
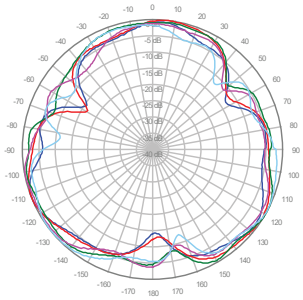
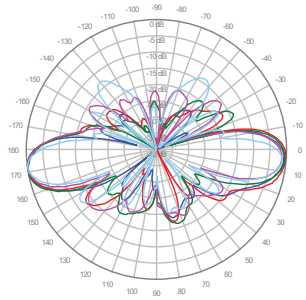


Elevation

-45°



Azimuth

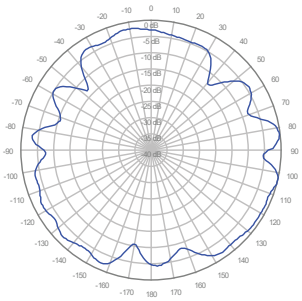


Elevation

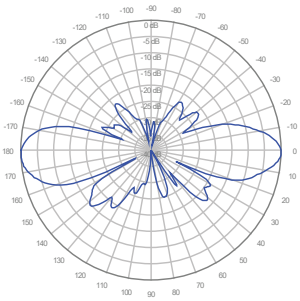
2L2U3MT360X06Fwxys4A

P1, 0° TILT

+45°

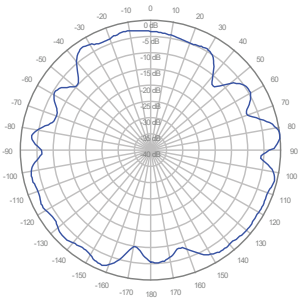


Azimuth (3600 MHz)

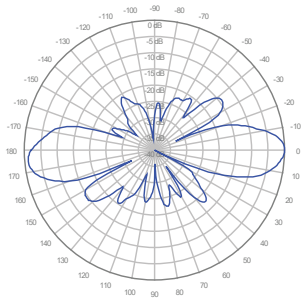


Elevation (3600 MHz)

-45°



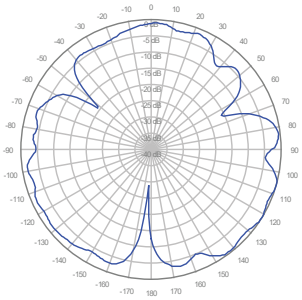
Azimuth (3600 MHz)



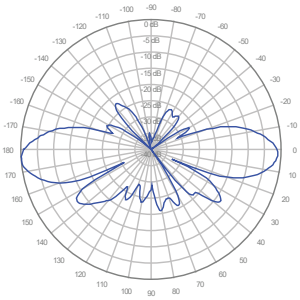
Elevation (3600 MHz)

P2, 0° TILT

+45°

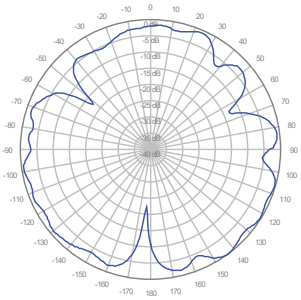


Azimuth (3600 MHz)

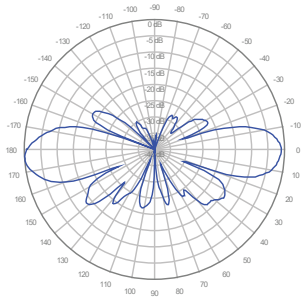


Elevation (3600 MHz)

-45°



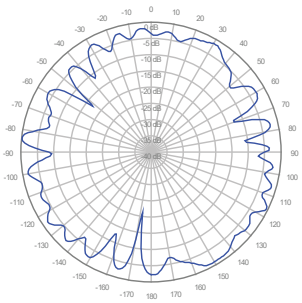
Azimuth (3600 MHz)



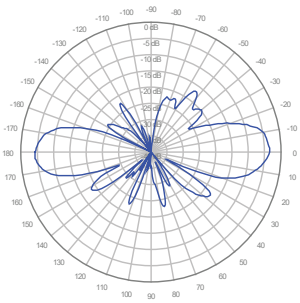
Elevation (3600 MHz)

O1, 0° TILT

+45°

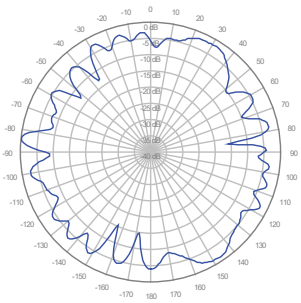


Azimuth (5600 MHz)

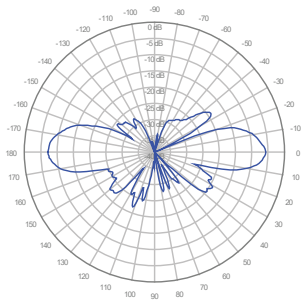


Elevation (5600 MHz)

-45°



Azimuth (5600 MHz)



Elevation (5600 MHz)