Amphenol ANTENNA SOLUTIONS

20-Port Canister Antenna

(2x) 617-906 | (4x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

OMNI | 24.0 IN | FIXED TILT

2L4U4MT360X06Fwxys4

Features

- 4G/5G pseudo omni configuration with 20 connectors
- 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
- Can be ordered with an integrated GPS unit
- This antenna meets the requirements of the U-NII

PRODUCT OVERVIEW						
	Frequency Range (MHz)	(2x) 617-906	(4x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925	1575.42 MHz ± 10 MHz
	Array	R1 R2	Y1 Y2 Y3 Y4	P1 P2	O1 O2	---
	Connector	4 PORTS	8 PORTS	4 PORTS	4 PORTS	1 PORT
	Polarization	XPOL	XPOL	XPOL	XPOL	RIGHT HAND CIRCULAR
	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)	5000 WATTS				---
	Connector Type	(20x) 4.3-10 FEMALE				(1x) N-TYPE 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	4.4 ± 0.6	4.7 ± 0.8
	MAX	dBi	5.0	5.5
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	73.0° ± 19.7°	73.2° ± 35.5°
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	

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

2L4U4MT360X06Fwxys4

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	5.9 ± 0.7	6.2 ± 0.8	6.4 ± 1.1	7.3 ± 1.2
	MAX	dBi	6.6	7.0	7.5	8.5
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	33.8° ± 9.2°	33.0° ± 9.8°	30.2° ± 9.1°	20.0° ± 6.6°
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			
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	8.3 ± 0.8	8.2 ± 0.9	9.5 ± 1.0
	MAX	dBi	9.1	9.1	10.5
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	18.0° ± 1.8°	18.3° ± 2.6°	16.4° ± 3.2°
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		

2L4U4MT360X06Fwxys4

ELECTRICAL SPECIFICATIONS

			■ O1 ■ O2
Frequency Range		MHz	(2x) 5150-5925
Polarization		---	(2x) ±45°
Gain	BASTA	dBi	5.3 ± 1.3
	MAX	dBi	6.6
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	18.5° ± 2.1°
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	> 13
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
U-NII Compliant		---	Yes

INTEGRATED GPS UNIT OPTIONAL

Frequency Range	1575.42 MHz ± 10 MHz
Polarization	Right Hand Circular
Nominal Gain	3 dBic at 90°; -2 dBic at 20°
Current Draw	22 mA @ 5V
Out-of-Band Rejection	> 55 dB at 1559 MHz; > 60 dB at 1625 MHz
Amplifier Gain	28 dB ± 3 dB
Nominal Impedance	50 ohm
Noise Figure	3.9 dB
DC Voltage	2.7-5.5 VDC
VSWR	< 2.0:1
Connector	N-Type Female

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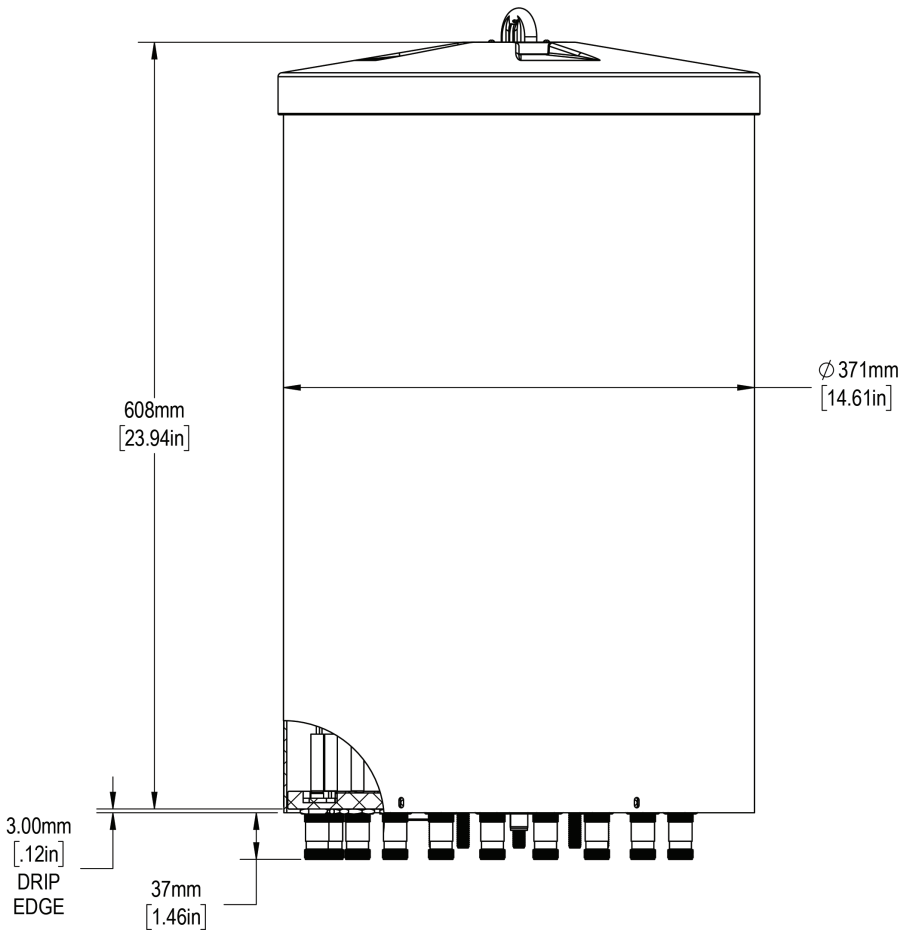
MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	608 (24.0)
	Diameter		mm (in)	371 (14.6)
Net Weight - Antenna Only			kg (lbs)	13.6 (30.0)
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	---	(20x) 4.3-10 Female; (1x) N-Type Female with optional GPS Unit
		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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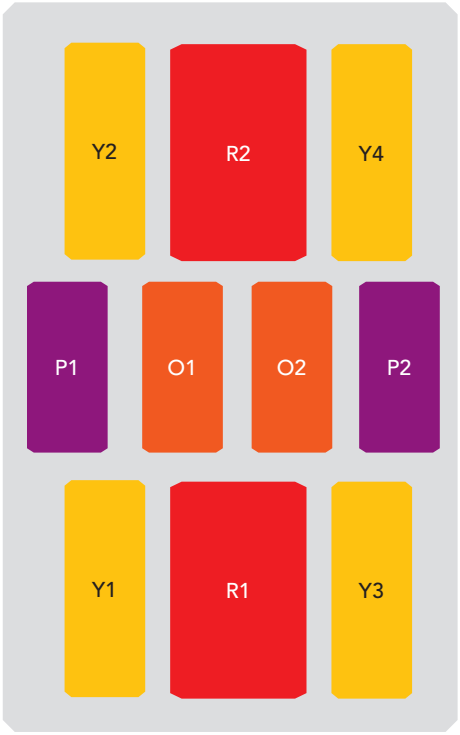
ARRAY LAYOUT Topology

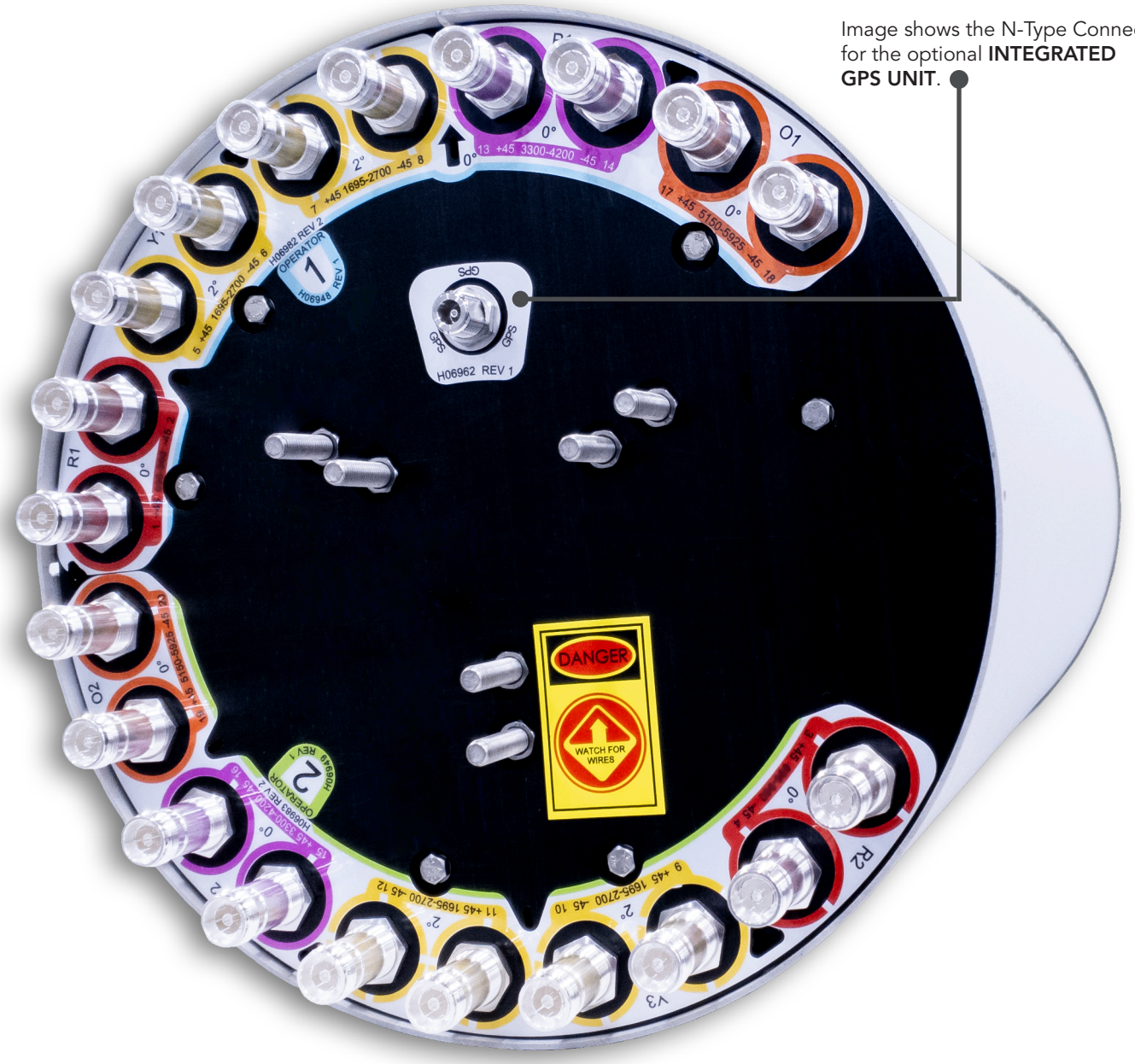
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
617-906	R1	1-2	(2x) 4.3-10 Female
617-906	R2	3-4	(2x) 4.3-10 Female
1695-2700	Y1	5-6	(2x) 4.3-10 Female
1695-2700	Y2	7-8	(2x) 4.3-10 Female
1695-2700	Y3	9-10	(2x) 4.3-10 Female
1695-2700	Y4	11-12	(2x) 4.3-10 Female
3300-4200	P1	13-14	(2x) 4.3-10 Female
3300-4200	P2	15-16	(2x) 4.3-10 Female
5150-5925	O1	17-18	(2x) 4.3-10 Female
5150-5925	O2	19-20	(2x) 4.3-10 Female
Optional GPS BAND 1575.42 MHz ± 10 MHz	---	---	(1x) N-Type Female



The illustration is not shown to scale.

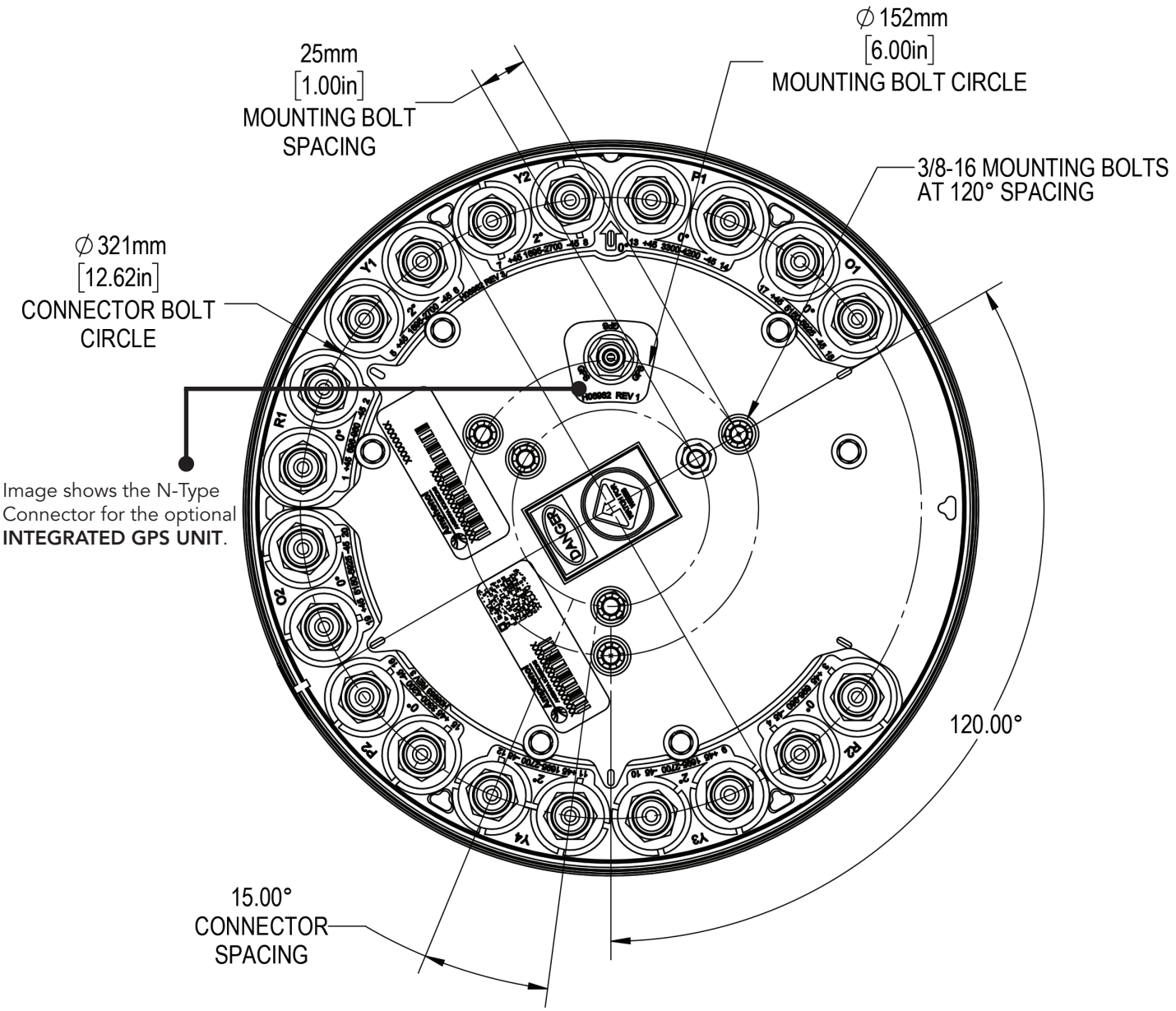
2L4U4MT360X06Fwxys4

BOTTOM VIEW - LABELING



2L4U4MT360X06Fwxys4

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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2L4U4MT360X06Fwxys4

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.

2L4U4MT360X06Fwxys4

HOW TO READ THE MODEL NUMBER Each letter and number has meaning.

NUMBER OF BANDS and OPERATING FREQUENCY				PATTERN TYPE	AZIMUTH BMWDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS	GPS
2L	4U	4M		T	360	X	06	F	wxy	s	4	BK BR	-GPS
(2x) 617-906	(4x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925	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.	Indicates an integrated GPS unit

ORDERING OPTIONS Select from the following ordering options

SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND				SELECT ANTENNA TYPE	
	617-906 MHz	1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	WITHOUT GPS UNIT	WITH GPS UNIT
Grey Pantone 420 C	0°	2°	0°	0°	2L4U4MT360X06F020s4	2L4U4MT360X06F020s4-GPS
	0°	4°	0°	0°	2L4U4MT360X06F040s4	2L4U4MT360X06F040s4-GPS
	0°	6°	0°	0°	2L4U4MT360X06F060s4	2L4U4MT360X06F060s4-GPS
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2L4U4MT360X06FAAAs4	2L4U4MT360X06FAAAs4-GPS
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2L4U4MT360X06FBBBs4	2L4U4MT360X06FBBBs4-GPS
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2L4U4MT360X06FCCCs4	2L4U4MT360X06FCCCs4-GPS
Brown Pantone 476 C	0°	2°	0°	0°	2L4U4MT360X06F020s4BR	2L4U4MT360X06F020s4BR-GPS
	0°	4°	0°	0°	2L4U4MT360X06F040s4BR	2L4U4MT360X06F040s4BR-GPS
	0°	6°	0°	0°	2L4U4MT360X06F060s4BR	2L4U4MT360X06F060s4BR-GPS
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2L4U4MT360X06FAAAs4BR	2L4U4MT360X06FAAAs4BR-GPS
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2L4U4MT360X06FBBBs4BR	2L4U4MT360X06FBBBs4BR-GPS
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2L4U4MT360X06FCCCs4BR	2L4U4MT360X06FCCCs4BR-GPS
Black RAL 9011	0°	2°	0°	0°	2L4U4MT360X06F020s4BK	2L4U4MT360X06F020s4BK-GPS
	0°	4°	0°	0°	2L4U4MT360X06F040s4BK	2L4U4MT360X06F040s4BK-GPS
	0°	6°	0°	0°	2L4U4MT360X06F060s4BK	2L4U4MT360X06F060s4BK-GPS
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2L4U4MT360X06FAAAs4BK	2L4U4MT360X06FAAAs4BK-GPS
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2L4U4MT360X06FBBBs4BK	2L4U4MT360X06FBBBs4BK-GPS
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2L4U4MT360X06FCCCs4BK	2L4U4MT360X06FCCCs4BK-GPS

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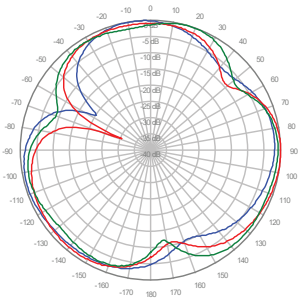
2L4U4MT360X06Fwxys4

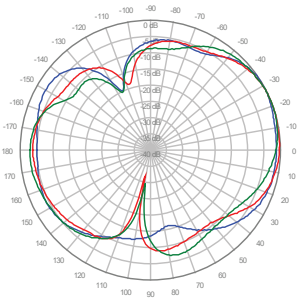
650 MHz
750 MHz
850 MHz

R1, 0° TILT

+45°

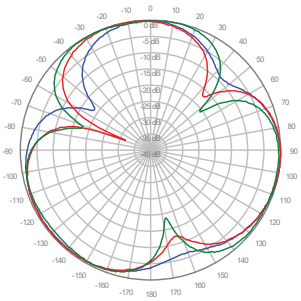


Azimuth



Elevation

-45°



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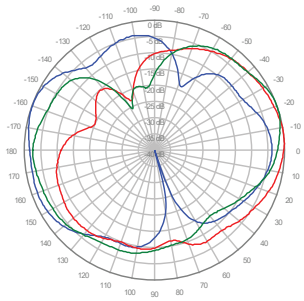
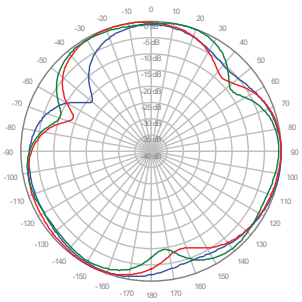


Elevation

R2, 0° TILT

+45°



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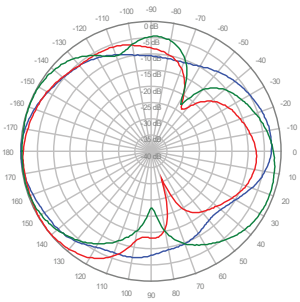
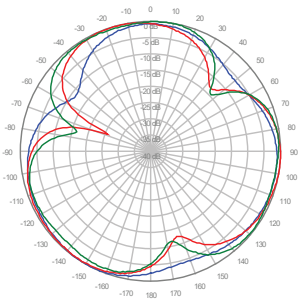


Elevation

-45°



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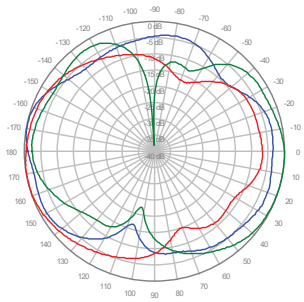


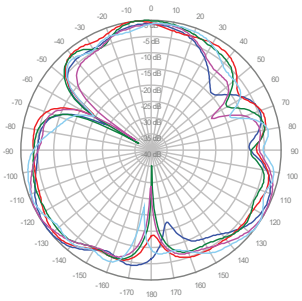
Elevation

2L4U4MT360X06Fwxys4

1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 2° TILT

+45°



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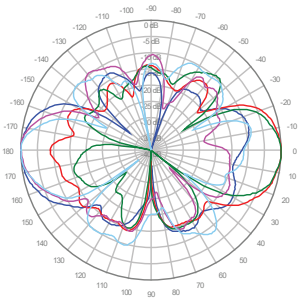
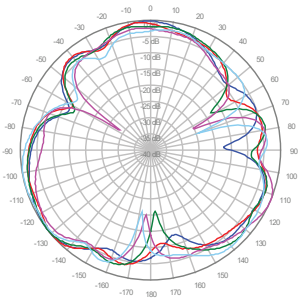


Elevation

-45°



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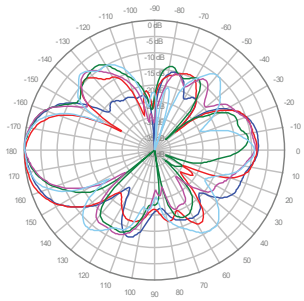
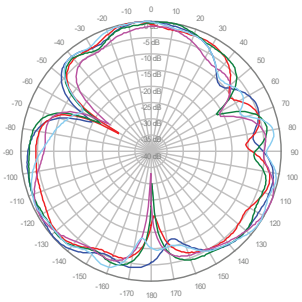


Elevation

Y2, 2° TILT

+45°



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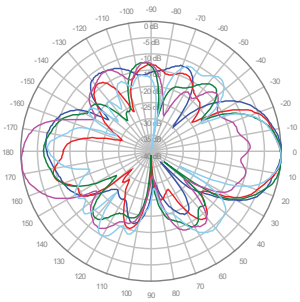
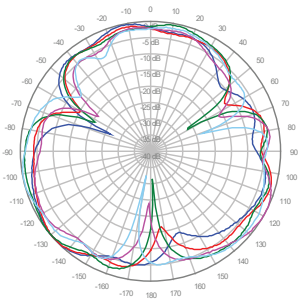


Elevation

-45°



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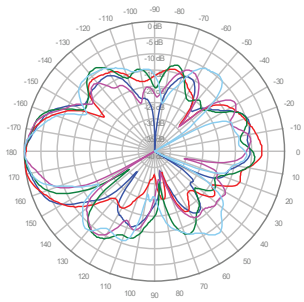
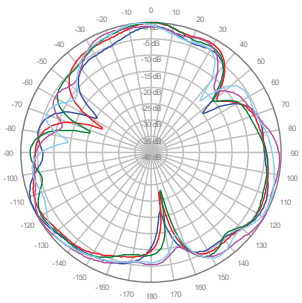


Elevation

Y3, 2° TILT

+45°



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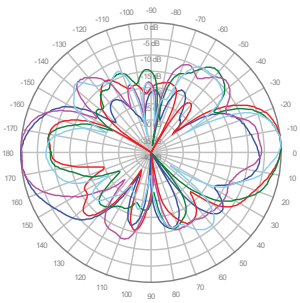
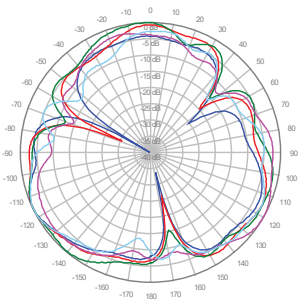


Elevation

-45°



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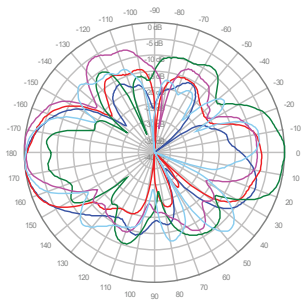
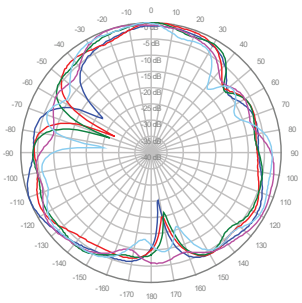


Elevation

Y4, 2° TILT

+45°



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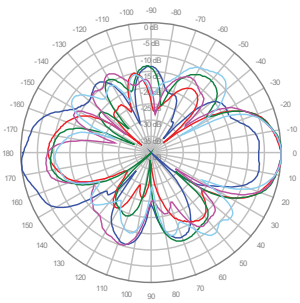
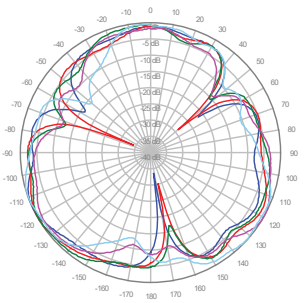
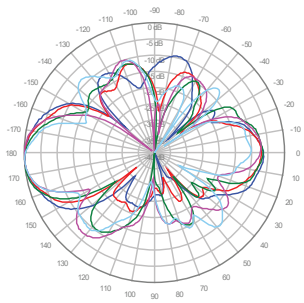


Elevation

-45°



Azimuth



Elevation

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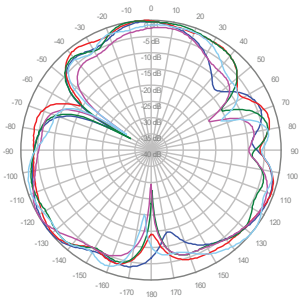
2L4U4MT360X06Fwxys4

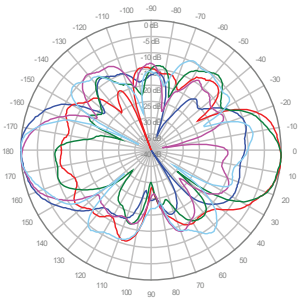
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 4° TILT

+45°

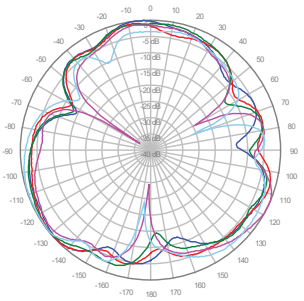


Azimuth

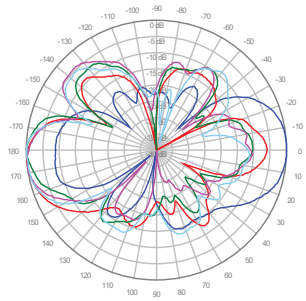


Elevation

-45°



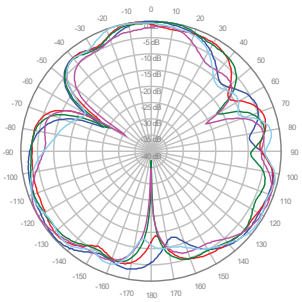
Azimuth



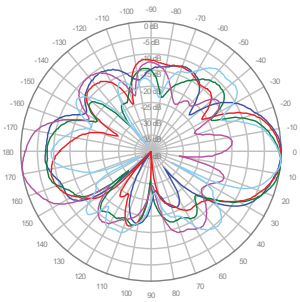
Elevation

Y2, 4° TILT

+45°

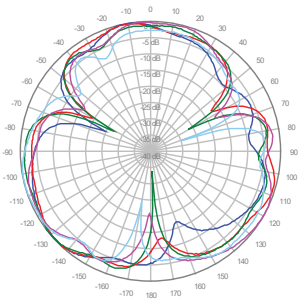


Azimuth

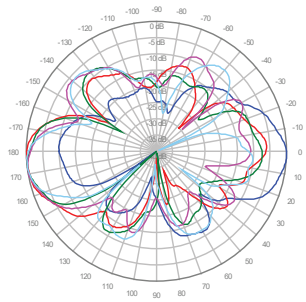


Elevation

-45°



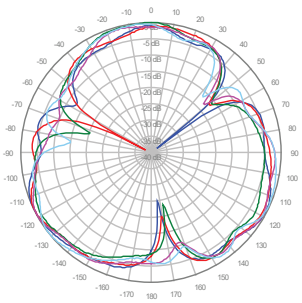
Azimuth



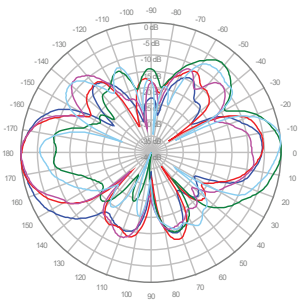
Elevation

Y3, 4° TILT

+45°

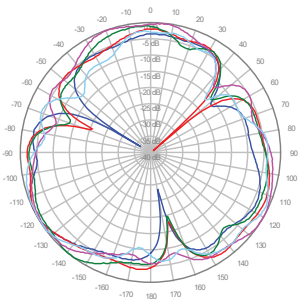


Azimuth

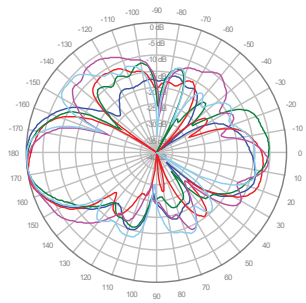


Elevation

-45°



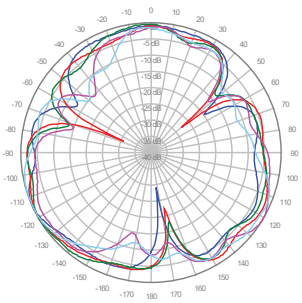
Azimuth



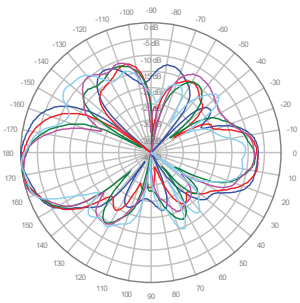
Elevation

Y4, 4° TILT

+45°

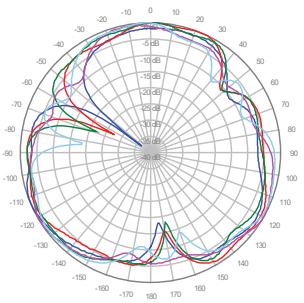


Azimuth

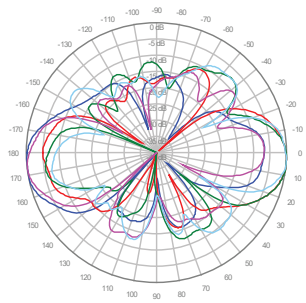


Elevation

-45°



Azimuth



Elevation

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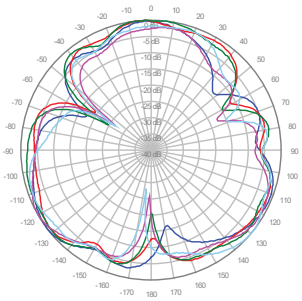
2L4U4MT360X06Fwxys4

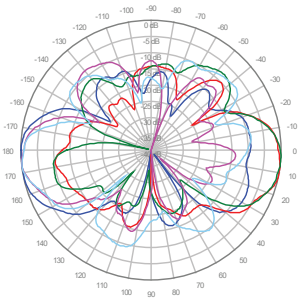
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 6° TILT

+45°

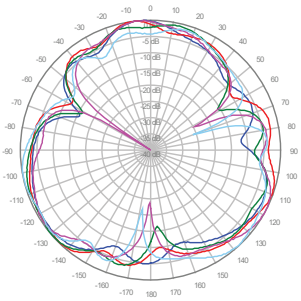


Azimuth

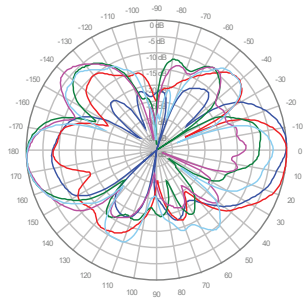


Elevation

-45°



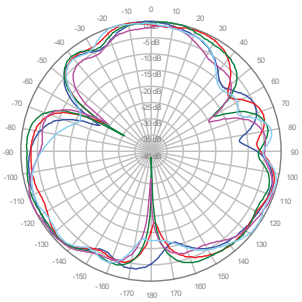
Azimuth



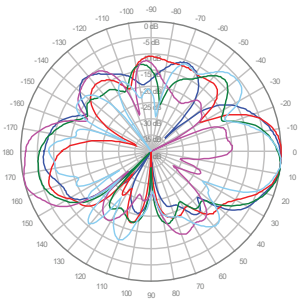
Elevation

Y2, 6° TILT

+45°

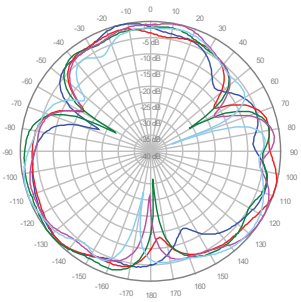


Azimuth

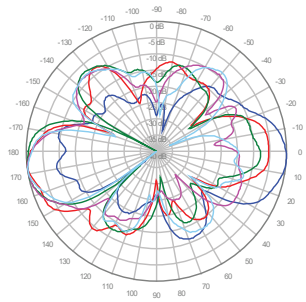


Elevation

-45°



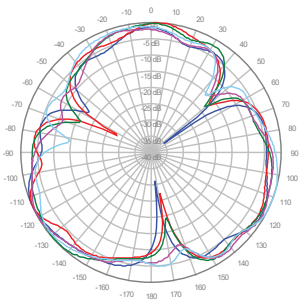
Azimuth



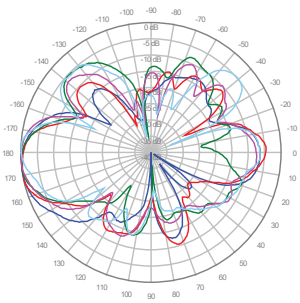
Elevation

Y3, 6° TILT

+45°

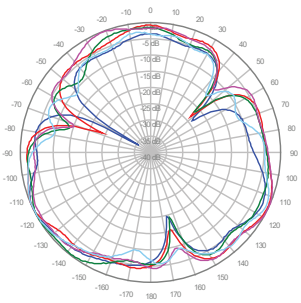


Azimuth

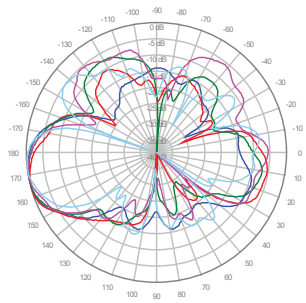


Elevation

-45°



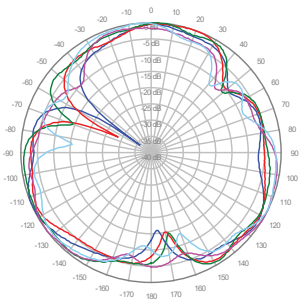
Azimuth



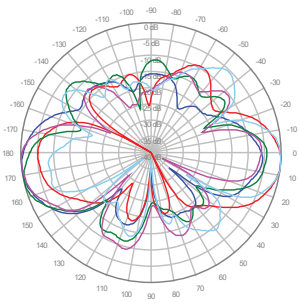
Elevation

Y4, 6° TILT

+45°

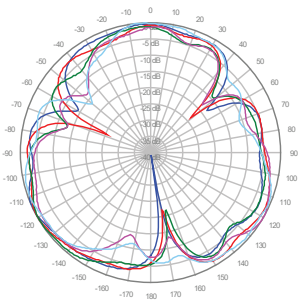


Azimuth

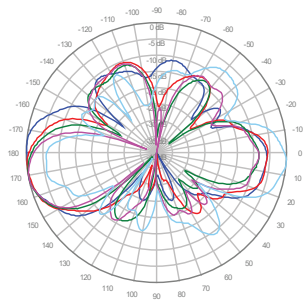


Elevation

-45°



Azimuth

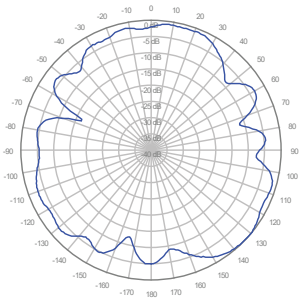


Elevation

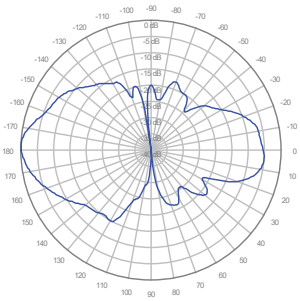
2L4U4MT360X06Fwxys4

P1, 0° TILT

+45°

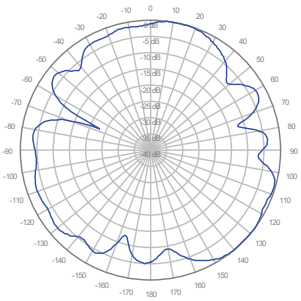


Azimuth (3600 MHz)

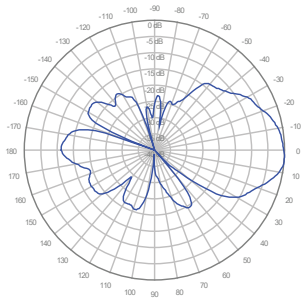


Elevation (3600 MHz)

-45°



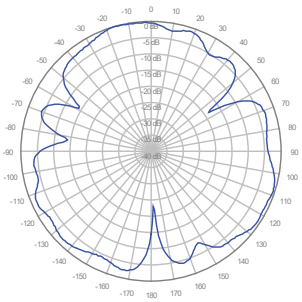
Azimuth (3600 MHz)



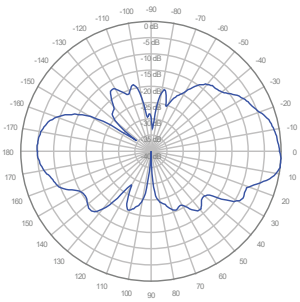
Elevation (3600 MHz)

P2, 0° TILT

+45°

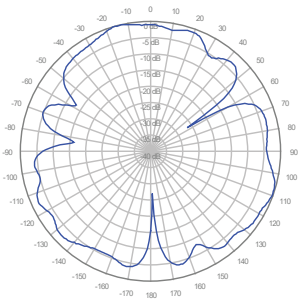


Azimuth (3600 MHz)

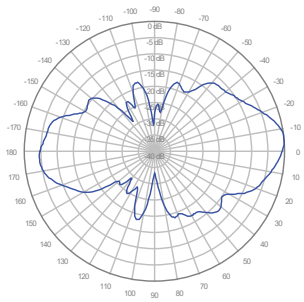


Elevation (3600 MHz)

-45°



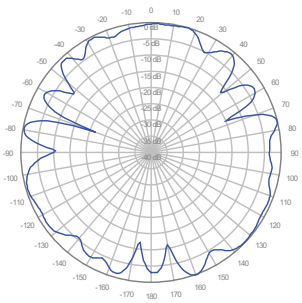
Azimuth (3600 MHz)



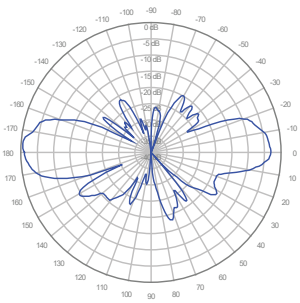
Elevation (3600 MHz)

O1, 0° TILT

+45°

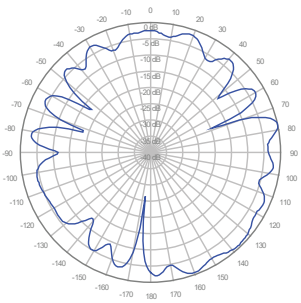


Azimuth (5600 MHz)

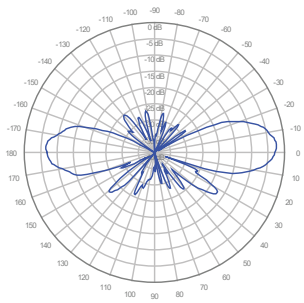


Elevation (5600 MHz)

-45°



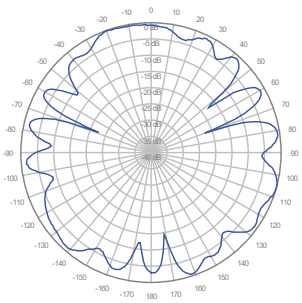
Azimuth (5600 MHz)



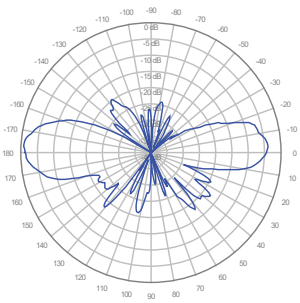
Elevation (5600 MHz)

O2, 0° TILT

+45°

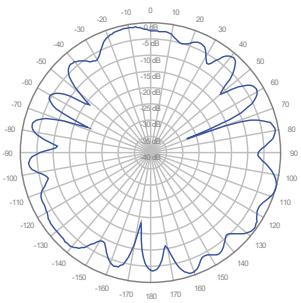


Azimuth (5600 MHz)

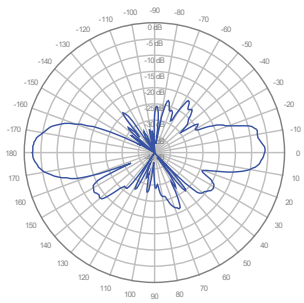


Elevation (5600 MHz)

-45°



Azimuth (5600 MHz)



Elevation (5600 MHz)