24-Port Canister Antenna

(2x) 696-896 | (2x) 1695-2180 | (4x) 1695-2700 | (2x) 3550-3700 | (2x) 5150-5925 MHz

OMNI | 48 IN | FIXED TILT

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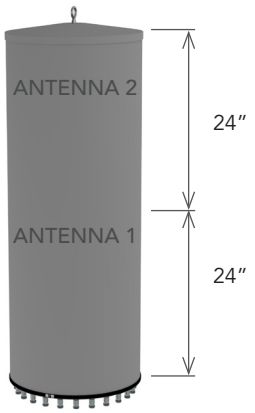

Features

- 4G/5G Pseudo Omni configuration with 24 connectors
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- 5 GHz U-NII FCC compliant
- Available for order with a grey, brown or black radome

PRODUCT OVERVIEW													
	Frequency Range (MHz)	LOW BAND		MID BAND						CBRS BAND		LAA BAND	
		(2x) 696-896		(2x) 1695-2180		(4x) 1695-2700				(2x) 3550-3700		(2x) 5150-5925	
	Array	R1	R2	B1	B2	Y1	Y2	Y3	Y4	P1	P2	O1	O2
	Connector	4 PORTS		4 PORTS		8 PORTS				4 PORTS		4 PORTS	
	Polarization	XPOL		XPOL		XPOL				XPOL		XPOL	
	Azimuth Beamwidth (avg)	360°		360°		360°				360°		360°	
	Electrical Downtilt	0°, 4°		2°, 4°, 6°		2°, 4°, 6°				0°		0°	
	Configuration	OMNI CONFIGURATION											
	Connector Type	(24x) 4.3-10 FEMALE CONNECTORS											
	Dimensions	1219 x Ø457 mm (48.0 x Ø18.0 in)											
	Radome Color Options	GREY, BROWN or BLACK											

ELECTRICAL SPECIFICATIONS Mid Band			■ **R1** ■ **R2**	
Frequency Range		MHz	(2x) 696-896	
Frequency Sub-Range		MHz	696-806	806-896
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	6.2 ± 0.9	6.9 ± 0.5
	MAX	dBi	7.1	7.4
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	37.3° ± 4.8°	32.8° ± 5.3°
Electrical Downtilt		degrees	(w) 0°, 4°	
Impedance		Ohms	50Ω	
VSWR		---	≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153	
Upper Sidelobe Suppression		dB	> 12	
Isolation	Intraband	dB	> 22	
	Interband	dB	> 30	
Input Power		Watts	500W	

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.

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ELECTRICAL SPECIFICATIONS Mid Band			■ **B1**	■ **B2**	
Frequency Range		MHz	(2x) 1695-2180		
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2180
Polarization		---	(2x) ±45°		
Gain	BASTA	dBi	7.3 ± 1.3	8.4 ± 1.0	8.0 ± 1.2
	MAX	dBi	8.6	9.4	9.2
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	25.5° ± 7.7°	21.4° ± 1.8°	21.0° ± 1.9°
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	> 11		
Isolation	Intraband	dB	> 25		
	Interband	dB	> 30		
Input Power		Watts	300W		

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	9.4 ± 0.8	9.8 ± 0.8	9.8 ± 0.9	9.6 ± 1.0
	MAX	dBi	10.2	10.6	10.7	10.6
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	20.3° ± 4.3°	18.8° ± 3.0°	17.9° ± 2.1°	15.0° ± 2.1°
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	> 12			
Isolation	Intraband	dB	> 25			
	Interband	dB	> 30			
Input Power		Watts	300W			

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ELECTRICAL SPECIFICATIONS CBRS Band			■ **P1** ■ **P2**
Frequency Range		MHz	(2x) 3550-3700
Polarization		---	(2x) ±45°
Gain	BASTA	dBi	6.3 ± 0.6
	MAX	dBi	6.9
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	28° ± 9.9°
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	> 14
Isolation	Intraband	dB	> 25
	Interband	dB	> 30
Input Power		Watts	100W

ELECTRICAL SPECIFICATIONS LAA Band			■ **O1** ■ **O2**
Frequency Range		MHz	(2x) 5150-5925
Polarization		---	(2x) ±45°
Gain	BASTA	dBi	5.1 ± 0.7
	MAX	dBi	5.8
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	24.2° ± 5.1°
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	N/A
Isolation	Intraband	dB	> 25
	Interband	dB	> 30
Input Power		Watts	50W
U-NII Compliant		---	Yes

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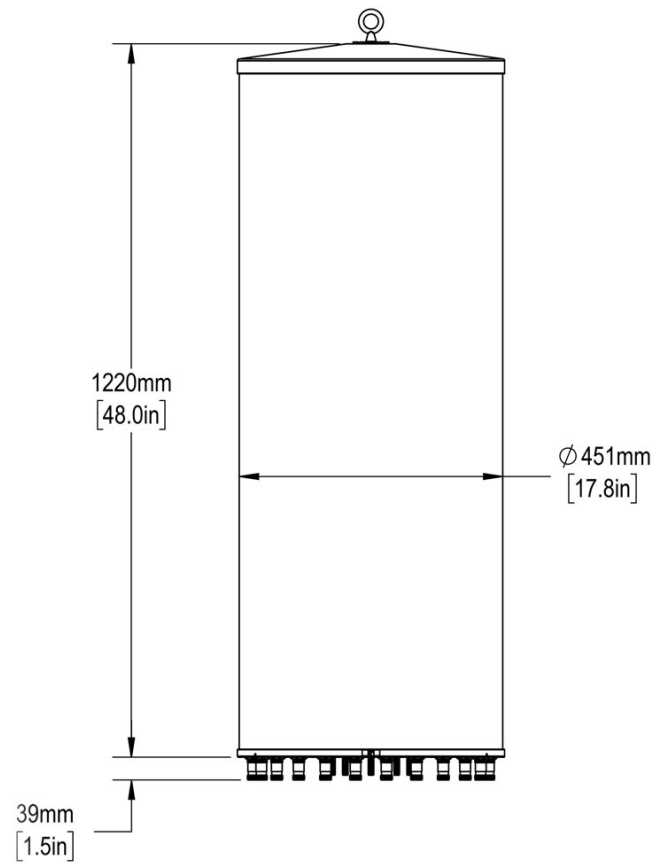
MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	1219 (48.0)
	Diameter		mm (in)	457 (18.0)
Net Weight - Antenna Only			kg (lbs)	25.4 (56)
Windload		Calculation	km/h (mph)	160 (100)
		Frontal	N (lbf)	466 (106)
Survival Wind Speed			km/h (mph)	241 (150)
Wind Area			m^2 (ft^2)	0.20 (7.1)
Volume		Total	m^3 (ft^3)	0.20 (7.1)
		Each Antenna	m^3 (ft^3)	0.10 (3.5)
Connector		Type	---	4.3-10 Female
		Quantity	---	24
		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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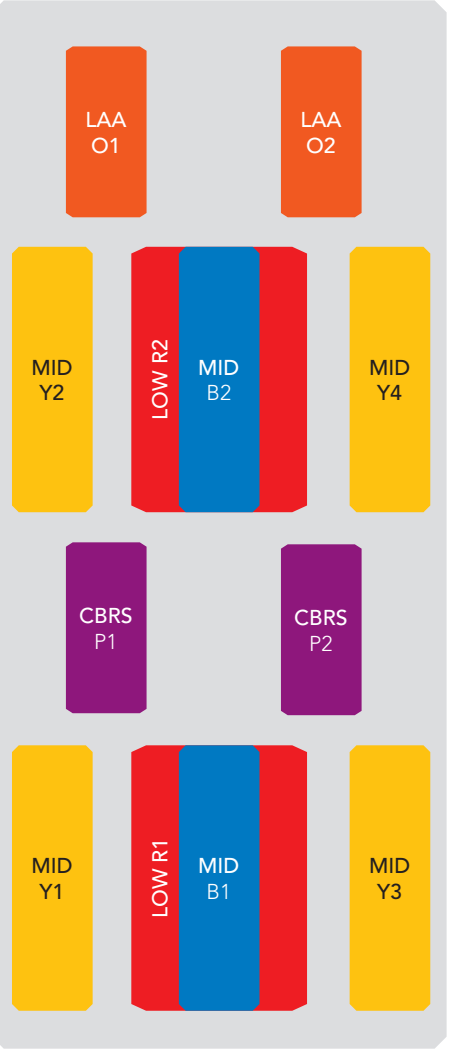
ARRAY LAYOUT Topology

FREQUENCY		ARRAY	CONNECTOR	CONNECTOR TYPE
LOW BAND	696-896	R1	1-2	(2x) 4.3-10 Female
	696-896	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
	1695-2180	B1	9-10	(2x) 4.3-10 Female
	1695-2180	B2	11-12	(2x) 4.3-10 Female
	1695-2700	Y3	13-14	(2x) 4.3-10 Female
	1695-2700	Y4	15-16	(2x) 4.3-10 Female
CBRS BAND	3550-3700	P1	17-18	(2x) 4.3-10 Female
	3550-3700	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.

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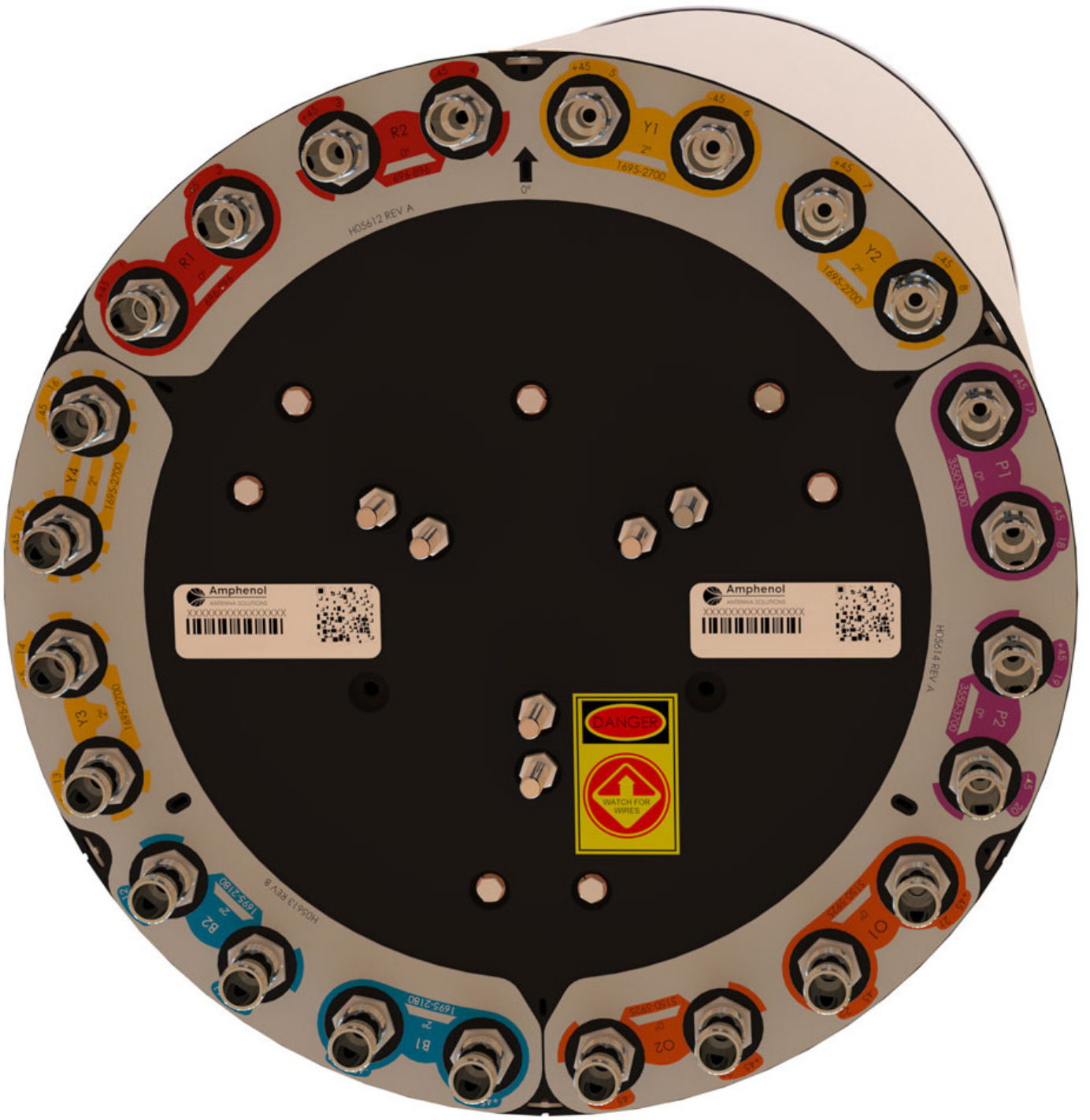
BOTTOM VIEW - LABELING



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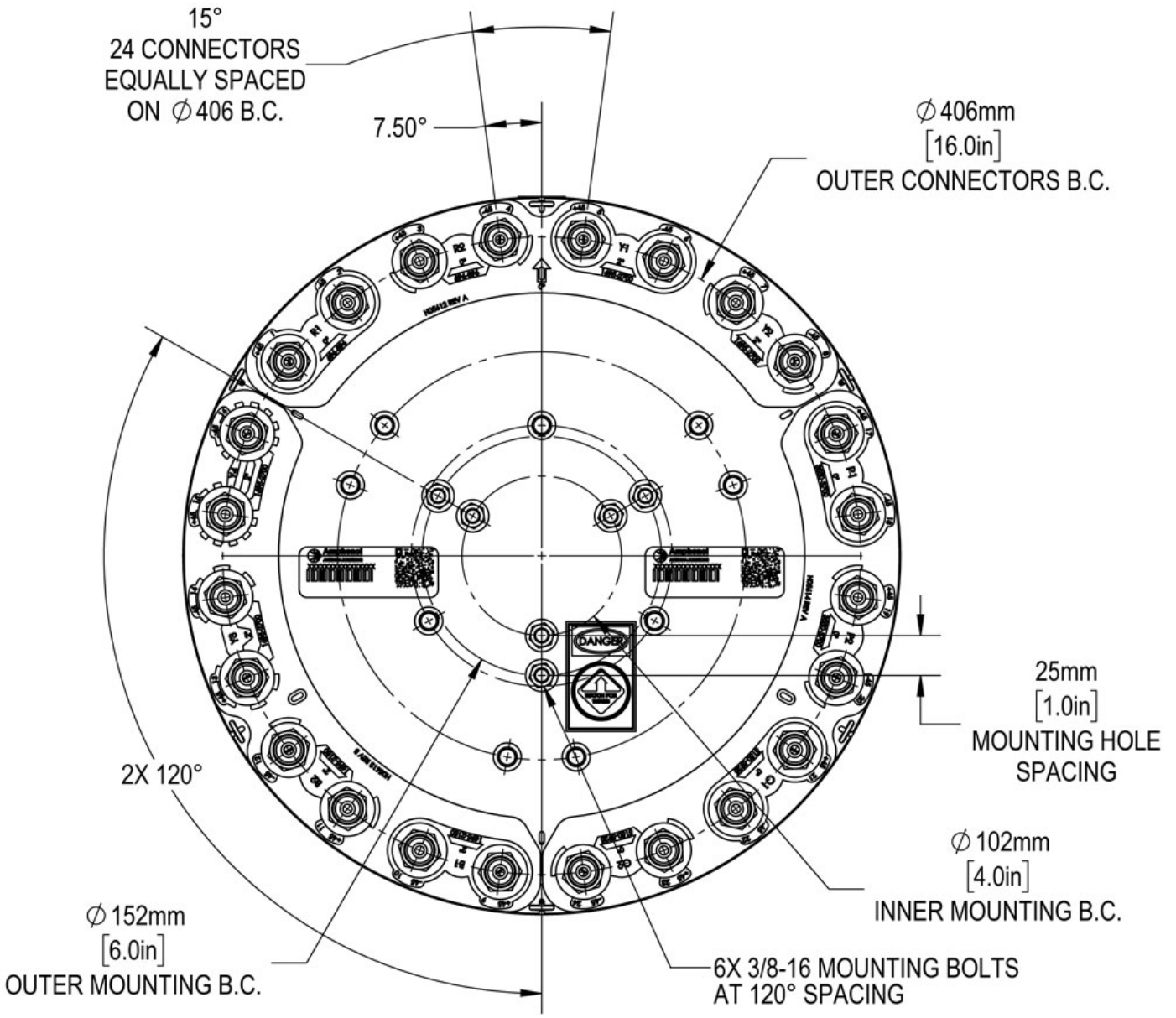
BOTTOM VIEW - CONNECTOR DIAGRAM



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

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

NUMBER OF BANDS & OPERATING FREQUENCY				PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA-TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
2C	6U	4M		T	360	X	12	F	wxy	s	0	BK BR
(2x) 696-896	(2x) 1695-2180 (4x) 1695-2700	(2x) 3550-3700	(2x) 5150-5925	Tri-Sector	360°	XPOL	1.2 meters	Fixed Tilt	These letters are placehold-ers for fixed tilt options. Refer to Electrical Specifica-tions for available tilt options.	4.3-10 Connector	Original variation	BK indicates a Black radome. BR indicates a Brown radome. The default radome color is Grey. No letters are required for a Grey radome.

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ORDERING OPTIONS Select from the following ordering options

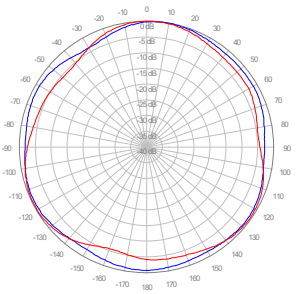
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND				ORDER MODEL NUMBER
	LOW BAND	MID BAND	CBRS BAND	LAA BAND	
Grey Pantone 420 C	0°	2°	0°	0°	2C6U4MT360X12F020s0
	0°	4°	0°	0°	2C6U4MT360X12F040s0
	0°	6°	0°	0°	2C6U4MT360X12F060s0
	0°	B1 and B2 = 6° Y1 - Y4 = 2°	0°	0°	2C6U4MT360X12FAAAs0
	4°	2°	0°	0°	2C6U4MT360X12F420s0
	4°	4°	0°	0°	2C6U4MT360X12F440s0
	4°	6°	0°	0°	2C6U4MT360X12F460s0
	4°	B1 and B2 = 4° Y1 - Y4 = 2°	0°	0°	2C6U4MT360X12FBBBs0
Brown Pantone 476 C	0°	2°	0°	0°	2C6U4MT360X12F020s0BR
	0°	4°	0°	0°	2C6U4MT360X12F040s0BR
	0°	6°	0°	0°	2C6U4MT360X12F060s0BR
	0°	B1 and B2 = 6° Y1 - Y4 = 2°	0°	0°	2C6U4MT360X12FAAAs0BR
	4°	2°	0°	0°	2C6U4MT360X12F420s0BR
	4°	4°	0°	0°	2C6U4MT360X12F440s0BR
	4°	6°	0°	0°	2C6U4MT360X12F460s0BR
	4°	B1 and B2 = 4° Y1 - Y4 = 2°	0°	0°	2C6U4MT360X12FBBBs0BR
Black RAL 9011	0°	2°	0°	0°	2C6U4MT360X12F020s0BK
	0°	4°	0°	0°	2C6U4MT360X12F040s0BK
	0°	6°	0°	0°	2C6U4MT360X12F060s0BK
	0°	B1 and B2 = 6° Y1 - Y4 = 2°	0°	0°	2C6U4MT360X12FAAAs0BK
	4°	2°	0°	0°	2C6U4MT360X12F420s0BK
	4°	4°	0°	0°	2C6U4MT360X12F440s0BK
	4°	6°	0°	0°	2C6U4MT360X12F460s0BK
	4°	B1 and B2 = 4° Y1 - Y4 = 2°	0°	0°	2C6U4MT360X12FBBBs0BK

2C6U4MT360X12Fwxys0

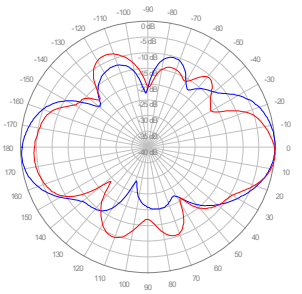
750 MHz
850 MHz

R1, 0° TILT

+45°

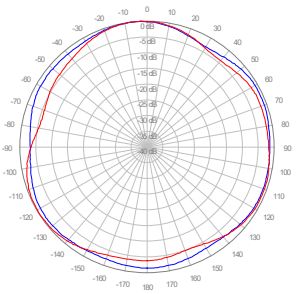


Azimuth



Elevation

-45°



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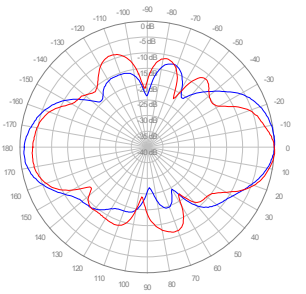
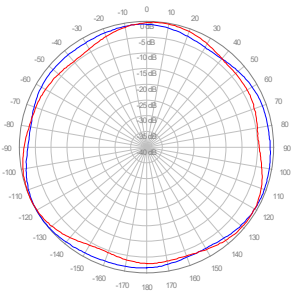


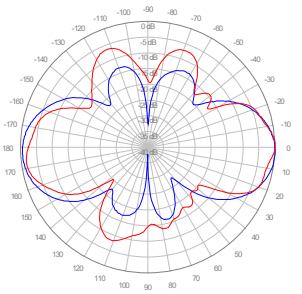
Elevation

R2, 0° TILT

+45°

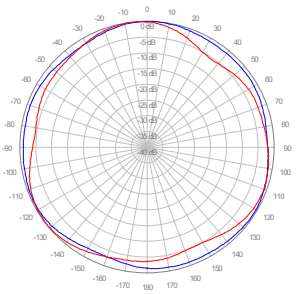


Azimuth



Elevation

-45°



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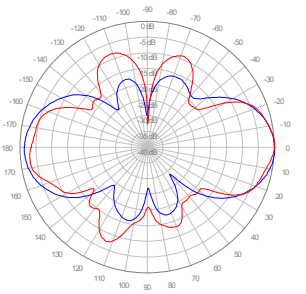


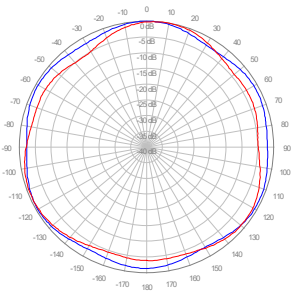
Elevation

2C6U4MT360X12Fwxys0

750 MHz
850 MHz

R1, 4° TILT

+45°



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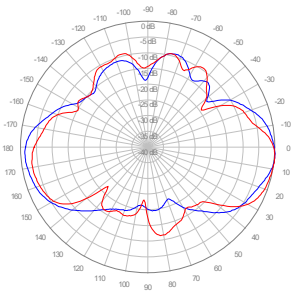
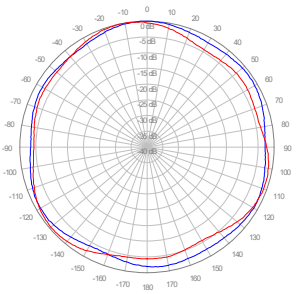


Elevation

-45°



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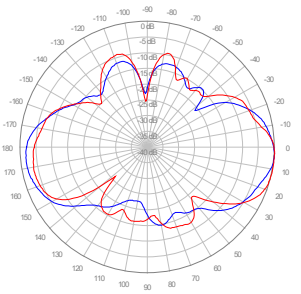
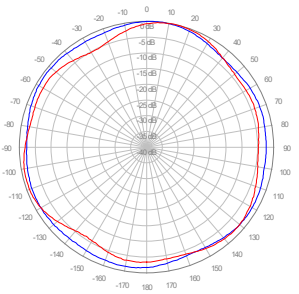


Elevation

R2, 4° TILT

+45°



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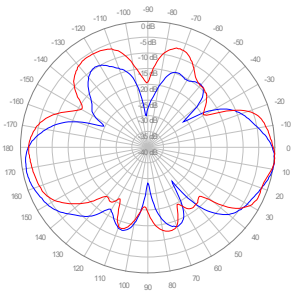
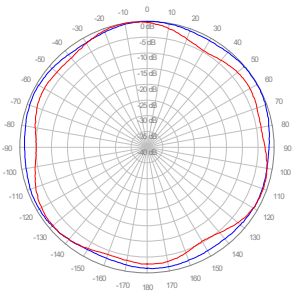


Elevation

-45°



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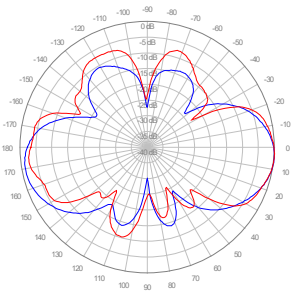


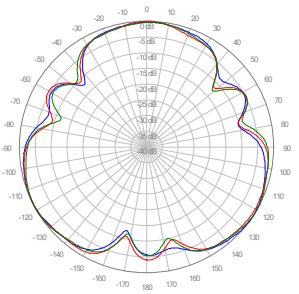
Elevation

2C6U4MT360X12Fwxys0

1800 MHz
1900 MHz
2100 MHz

B1, 2° TILT

+45°



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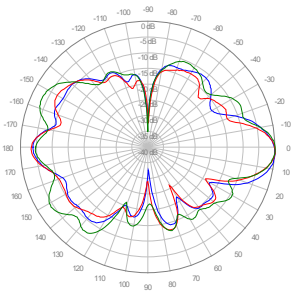
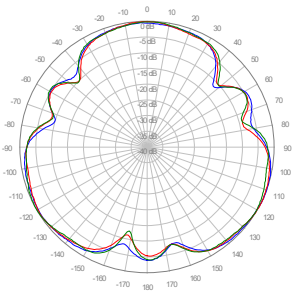


Elevation

-45°



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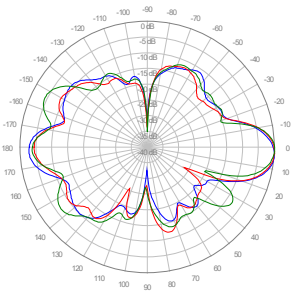
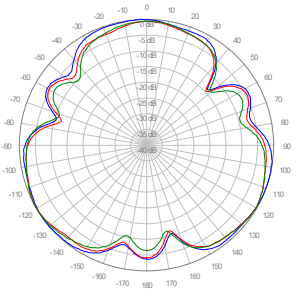


Elevation

B2, 2° TILT

+45°



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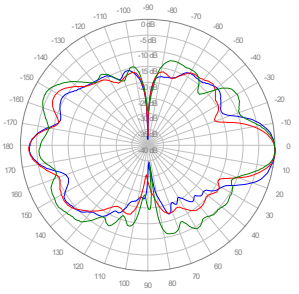
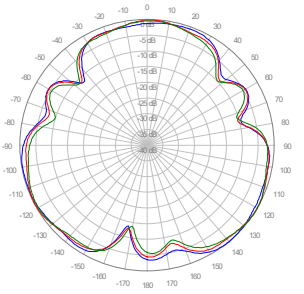
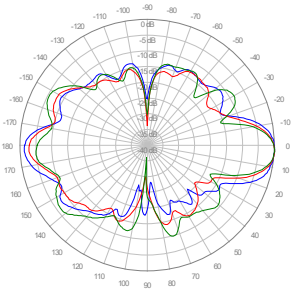


Elevation

-45°



Azimuth



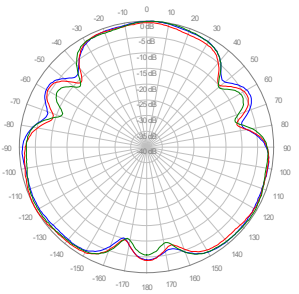
Elevation

2C6U4MT360X12Fwxys0

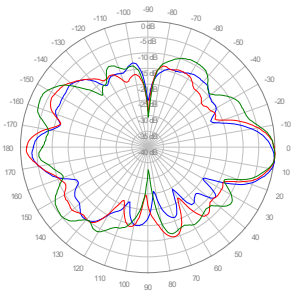
1800 MHz
1900 MHz
2100 MHz

B1, 4° TILT

+45°

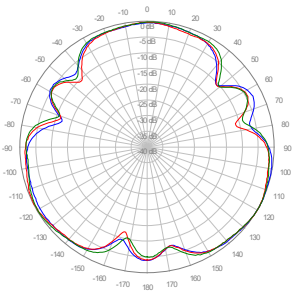


Azimuth

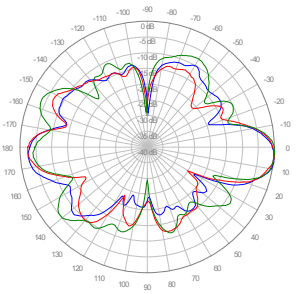


Elevation

-45°



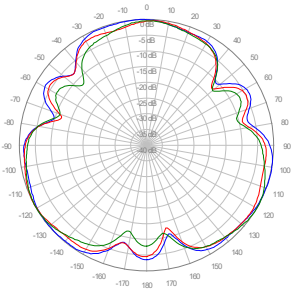
Azimuth



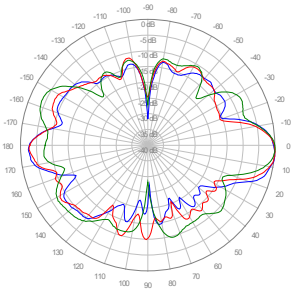
Elevation

B2, 4° TILT

+45°

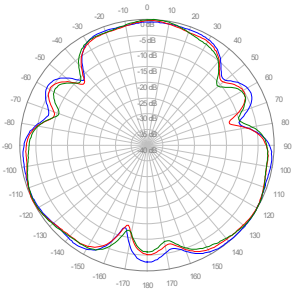


Azimuth

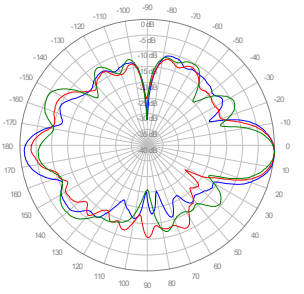


Elevation

-45°



Azimuth



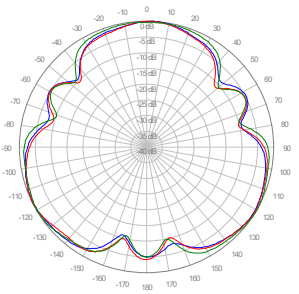
Elevation

2C6U4MT360X12Fwxys0

1800 MHz
1900 MHz
2100 MHz

B1, 6° TILT

+45°



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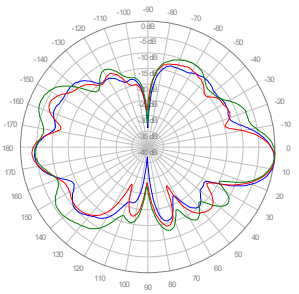
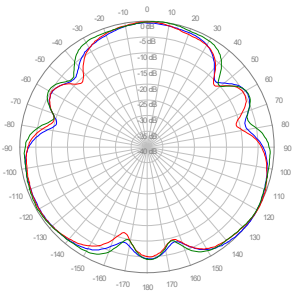
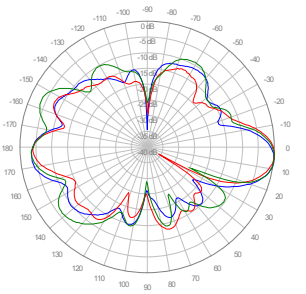


Elevation

-45°



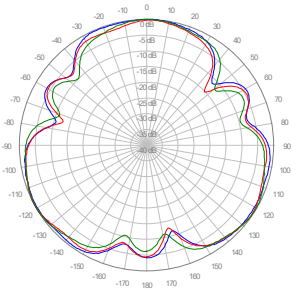
Azimuth



Elevation

B2, 6° TILT

+45°



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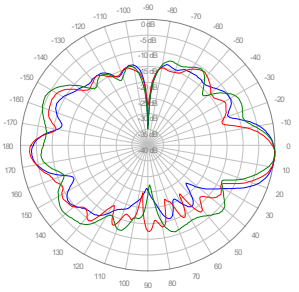
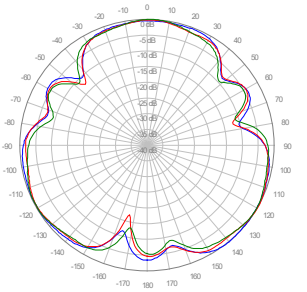
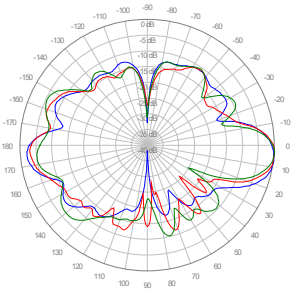


Elevation

-45°



Azimuth



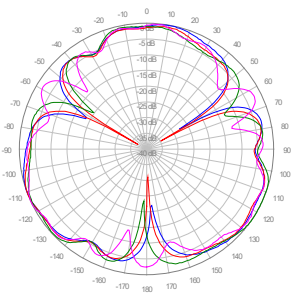
Elevation

2C6U4MT360X12Fwxys0

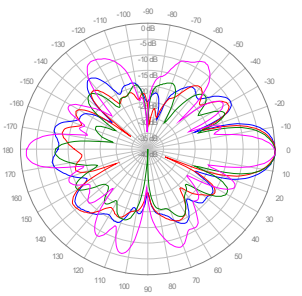
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 2° TILT

+45°



Azimuth



Elevation

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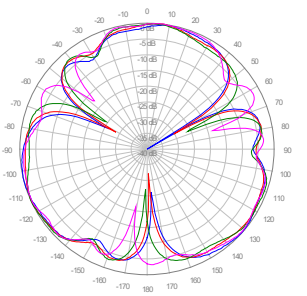
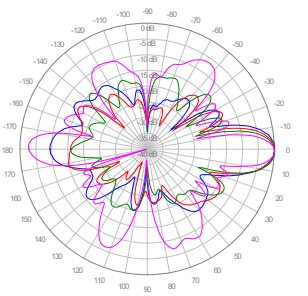


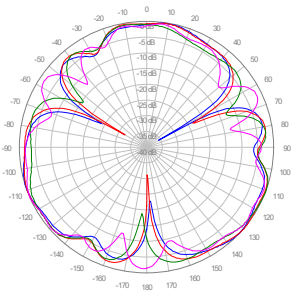
Azimuth



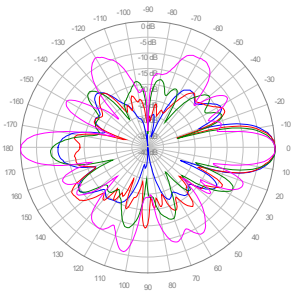
Elevation

Y2, 2° TILT

+45°

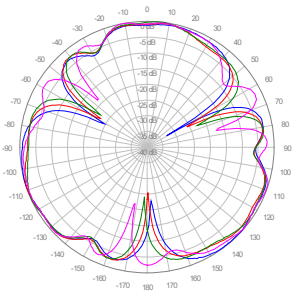


Azimuth

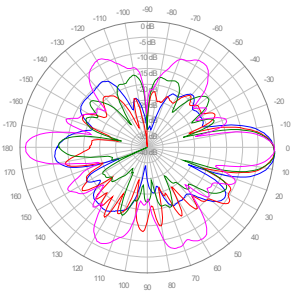


Elevation

-45°



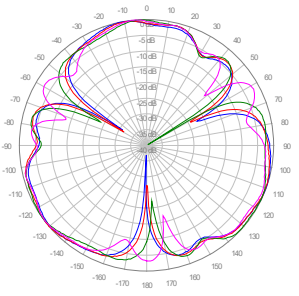
Azimuth



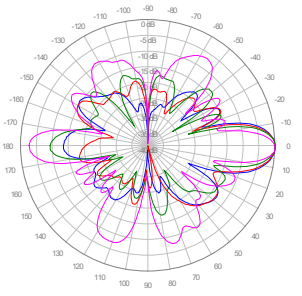
Elevation

Y3, 2° TILT

+45°



Azimuth



Elevation

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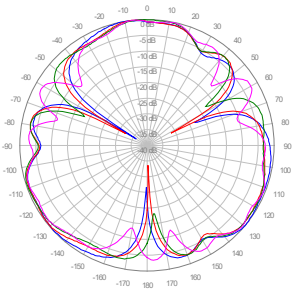
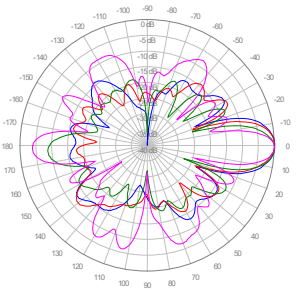


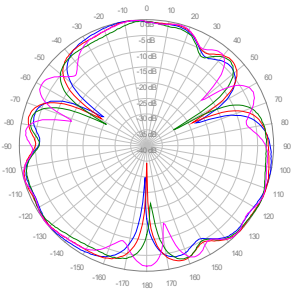
Azimuth



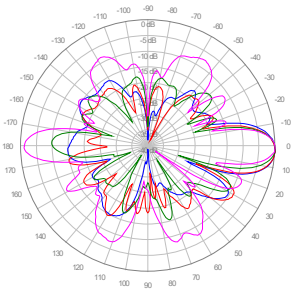
Elevation

Y4, 2° TILT

+45°



Azimuth



Elevation

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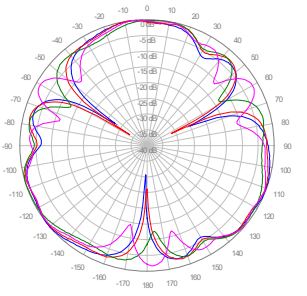
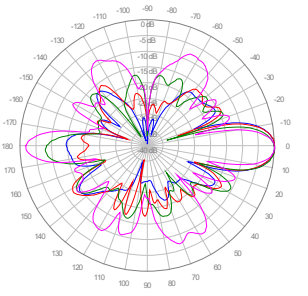


Azimuth



Elevation

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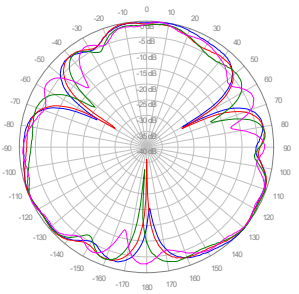
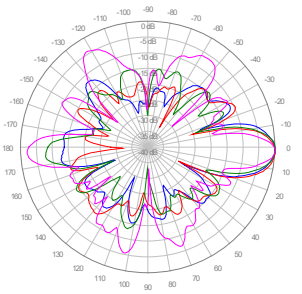
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 4° TILT

+45°

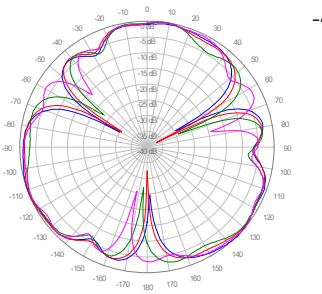


Azimuth

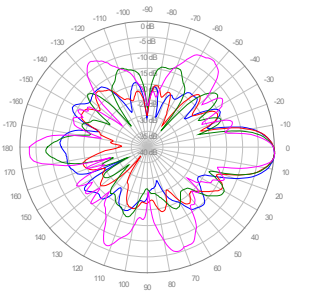


Elevation

-45°



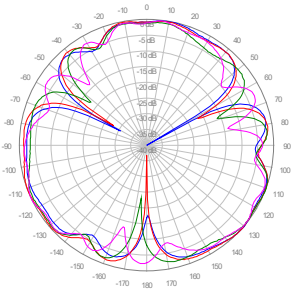
Azimuth



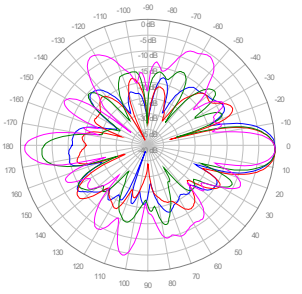
Elevation

Y2, 4° TILT

+45°

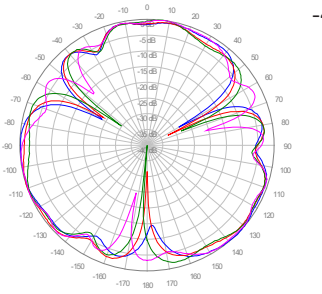


Azimuth

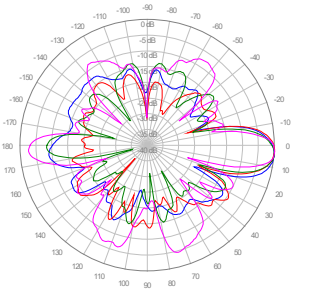


Elevation

-45°



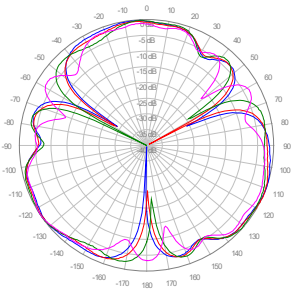
Azimuth



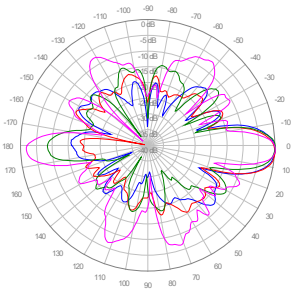
Elevation

Y3, 4° TILT

+45°

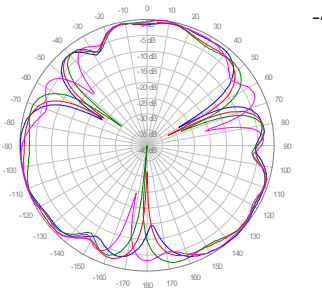


Azimuth

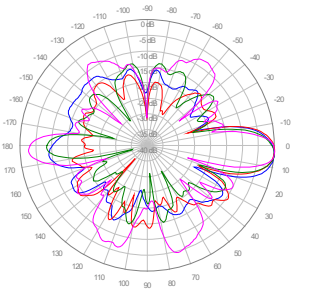


Elevation

-45°



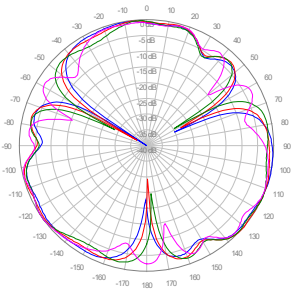
Azimuth



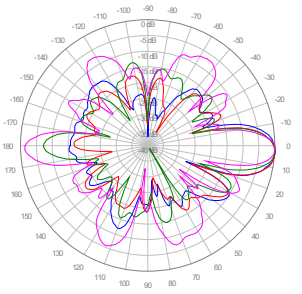
Elevation

Y4, 4° TILT

+45°

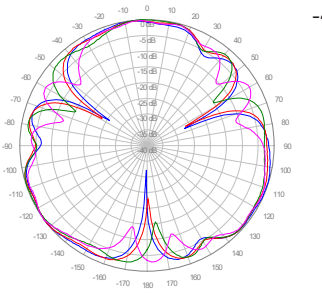


Azimuth

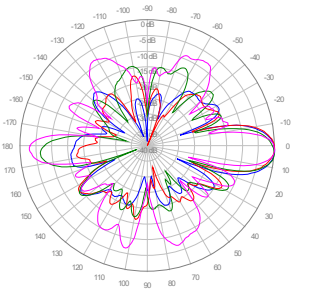


Elevation

-45°



Azimuth



Elevation

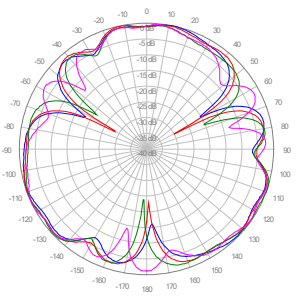
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

2C6U4MT360X12Fwxys0

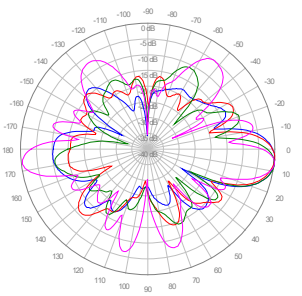
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 6° TILT

+45°

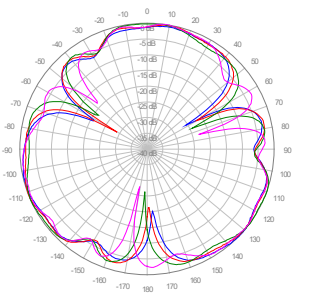


Azimuth

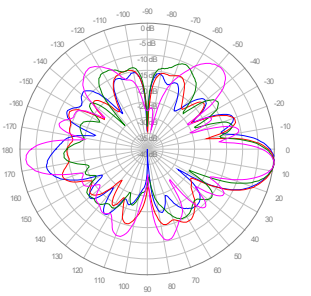


Elevation

-45°



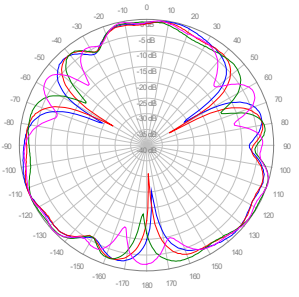
Azimuth



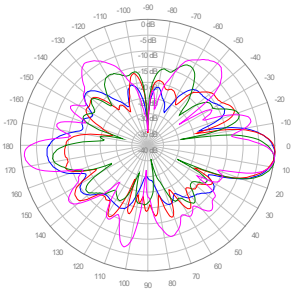
Elevation

Y2, 6° TILT

+45°

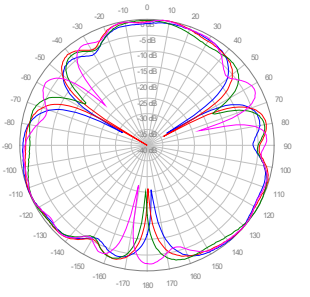


Azimuth

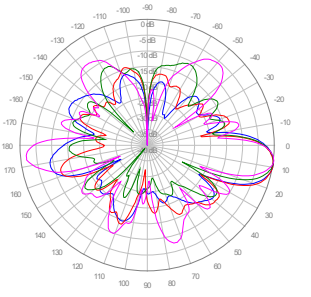


Elevation

-45°



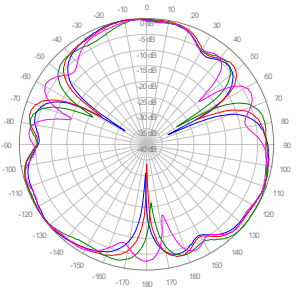
Azimuth



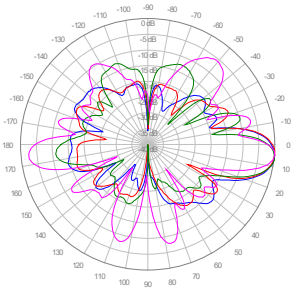
Elevation

Y3, 6° TILT

+45°

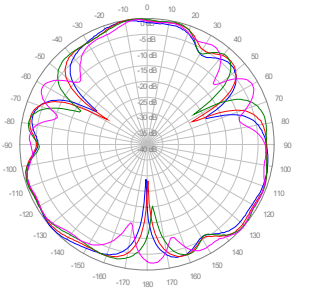


Azimuth

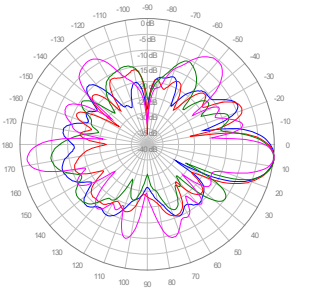


Elevation

-45°



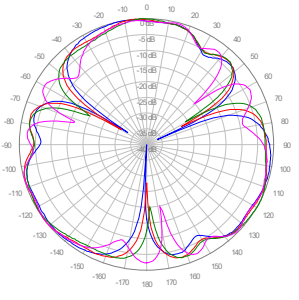
Azimuth



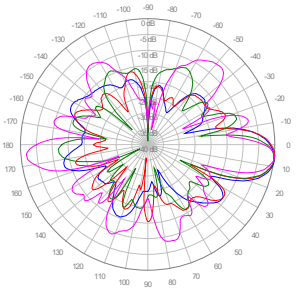
Elevation

Y4, 6° TILT

+45°

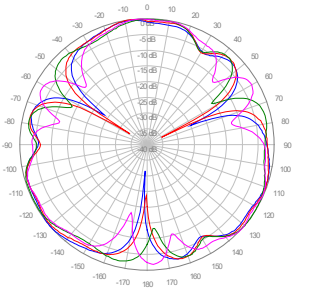


Azimuth

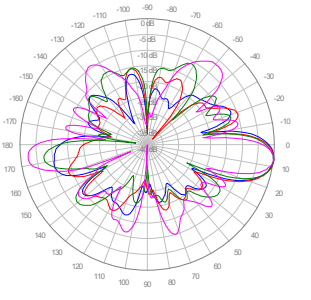


Elevation

-45°



Azimuth

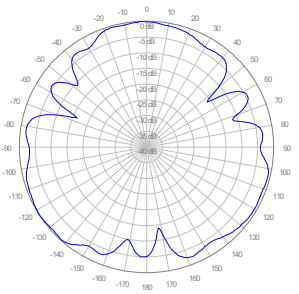


Elevation

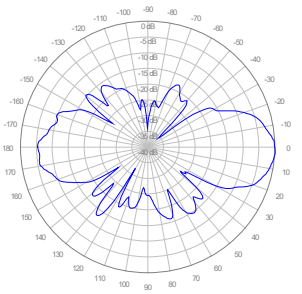
2C6U4MT360X12Fwxys0

P1, 0° TILT

+45°

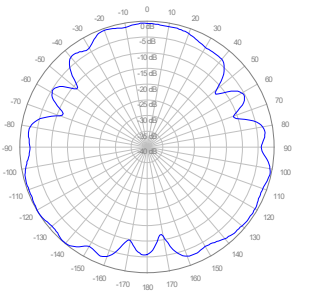


Azimuth (3600 MHz)

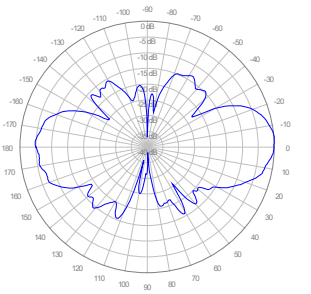


Elevation (3600 MHz)

-45°



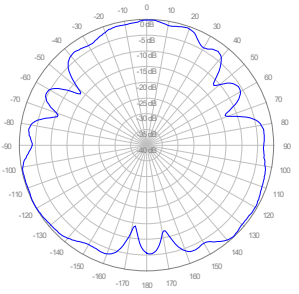
Azimuth (3600 MHz)



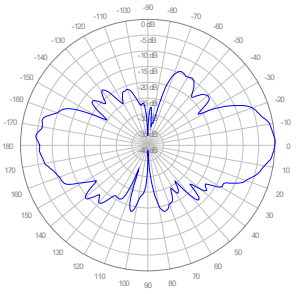
Elevation (3600 MHz)

P2, 0° TILT

+45°

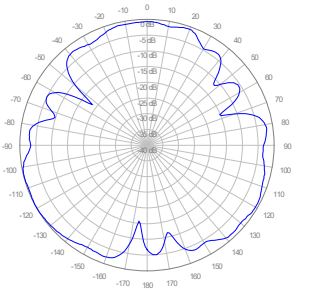


Azimuth (3600 MHz)

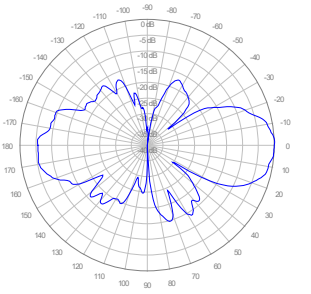


Elevation (3600 MHz)

-45°



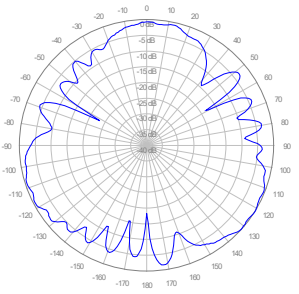
Azimuth (3600 MHz)



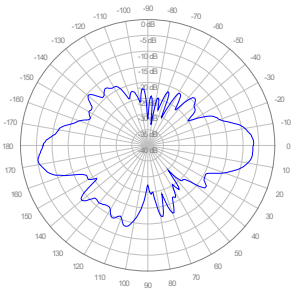
Elevation (3600 MHz)

O1, 0° TILT

+45°

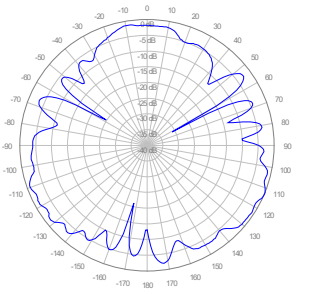


Azimuth (5600 MHz)

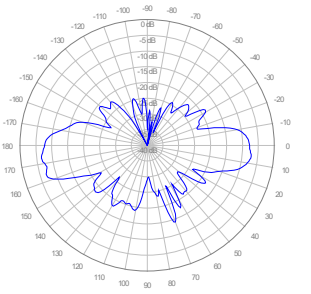


Elevation (5600 MHz)

-45°



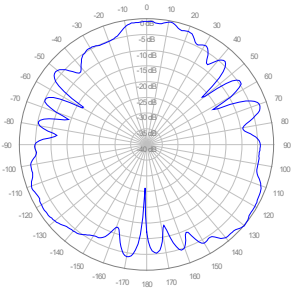
Azimuth (5600 MHz)



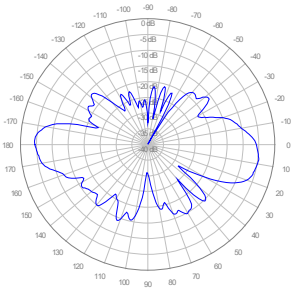
Elevation (5600 MHz)

O2, 0° TILT

+45°

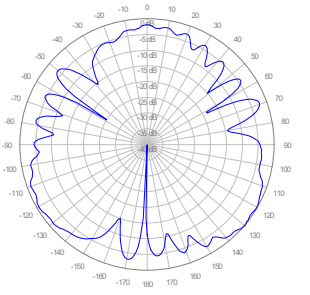


Azimuth (5600 MHz)

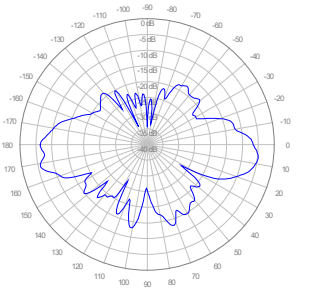


Elevation (5600 MHz)

-45°



Azimuth (5600 MHz)



Elevation (5600 MHz)