Amphenol ANTENNA SOLUTIONS

24-Port Canister Antenna

(2x) 696-896 | (2x) 1695-2180 | (4x) 1695-2700 | (2x) 3300-4200 | (2x) 5150-5925 MHz

OMNI | 48 IN | FIXED TILT

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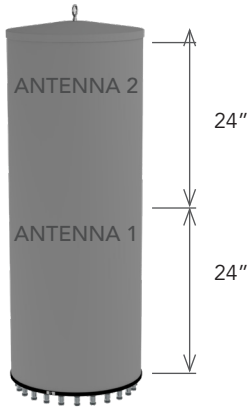

Features

- 4G/5G Pseudo Omni configuration with 24 connectors
- Dual antennas integrated under a single radome
- Extended CBRS Band
- 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)	(2x) 696-896				(2x) 1695-2180				(4x) 1695-2700								(2x) 3300-4200			
	Array	R1		R2		B1		B2		Y1		Y2		Y3		Y4		P1		P2	
	Connector	4 PORTS				4 PORTS				8 PORTS								4 PORTS			
	Polarization	XPOL				XPOL				XPOL								XPOL			
	Azimuth Beamwidth (avg)	360°				360°				360°								360°			
	Electrical Downtilt	0°, 4°				2°, 4°, 6°				2°, 4°, 6°								0°			
	Configuration	OMNI CONFIGURATION																			
	Maximum Continuous Power Per Port @ 50° C (122° F)	500 WATTS				300 WATTS				300 WATTS								100 WATTS			
	Maximum Total Continuous Power at 50° C (122° F)	6100 WATTS																			
	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			R1	R2
Frequency Range		MHz	(2x) 696-896	
Frequency Sub-Range		MHz	696-806	806-896
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	7.3 ± 0.7	7.2 ± 0.8
	MAX	dBi	8.0	8.0
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	33.6° ± 4.1°	29.7° ± 4.1°
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	

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			■ B1 ■ B2		
Frequency Range		MHz	(2x) 1695-2180		
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2180
Polarization		---	(2x) ±45°		
Gain	BASTA	dBi	7.6 ± 1.1	8.5 ± 1.0	8.1 ± 1.2
	MAX	dBi	8.7	9.5	9.3
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	21.2° ± 2.9°	18.8° ± 1.4°	18.3° ± 1.6°
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	> 11		
Isolation	Intraband	dB	> 25		
	Interband	dB	> 30		

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	9.3 ± 0.8	10.0 ± 0.8	10.1 ± 0.9	9.9 ± 0.9
	MAX	dBi	10.1	10.8	11.0	10.8
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	17.0° ± 1.3°	15.6° ± 1.0°	15.1° ± 1.2°	12.6° ± 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	> 12			
Isolation	Intraband	dB	> 25			
	Interband	dB	> 30			

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ELECTRICAL SPECIFICATIONS			P1	P2
Frequency Range		MHz	(2x) 3300-4200	
Frequency Sub-Range		MHz	3300-3700	3700-4200
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	5.8 ± 0.8	6.9 ± 0.8
	MAX	dBi	6.6	7.7
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	25.0° ± 5.5°	22.6° ± 2.7°
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	> 26	

ELECTRICAL SPECIFICATIONS			O1	O2
Frequency Range		MHz	(2x) 5150-5925	
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	2.8 ± 0.6	
	MAX	dBi	3.4	
Azimuth Beamwidth (3 dB)		degrees	360°	
Elevation Beamwidth (3 dB)		degrees	19.6° ± 2.6°	
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	
U-NII Compliant		---	Yes	

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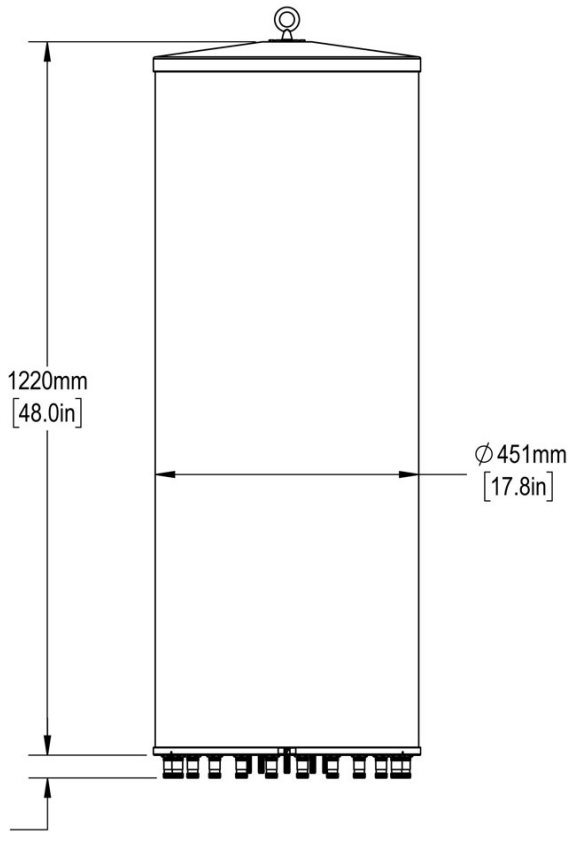
MECHANICAL SPECIFICATIONS

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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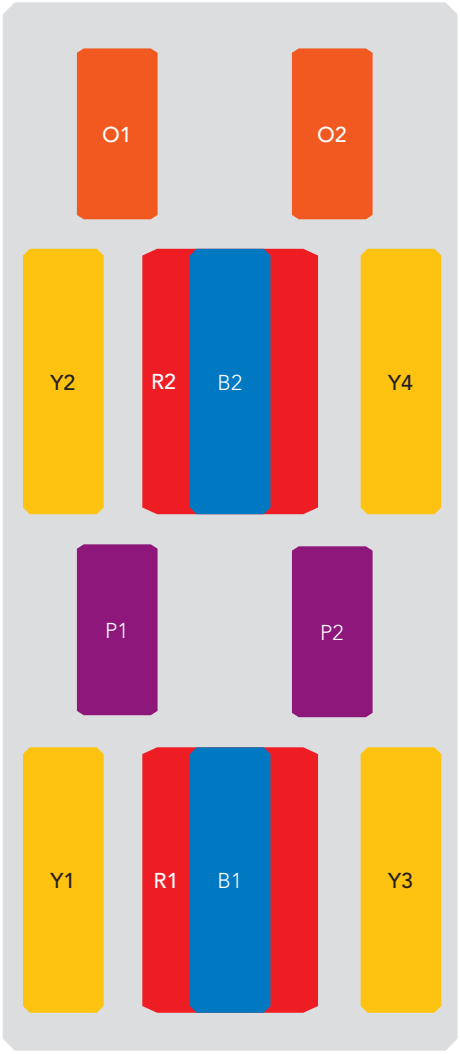
ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-896 MHz	R1	1-2	(2x) 4.3-10 Female
696-896 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
1695-2180 MHz	B1	9-10	(2x) 4.3-10 Female
1695-2180 MHz	B2	11-12	(2x) 4.3-10 Female
1695-2700 MHz	Y3	13-14	(2x) 4.3-10 Female
1695-2700 MHz	Y4	15-16	(2x) 4.3-10 Female
3300-4200 MHz	P1	17-18	(2x) 4.3-10 Female
3300-4200 MHz	P2	19-20	(2x) 4.3-10 Female
5150-5925 MHz	O1	21-22	(2x) 4.3-10 Female
5150-5925 MHz	O2	23-24	(2x) 4.310 Female



The illustration is not shown to scale.

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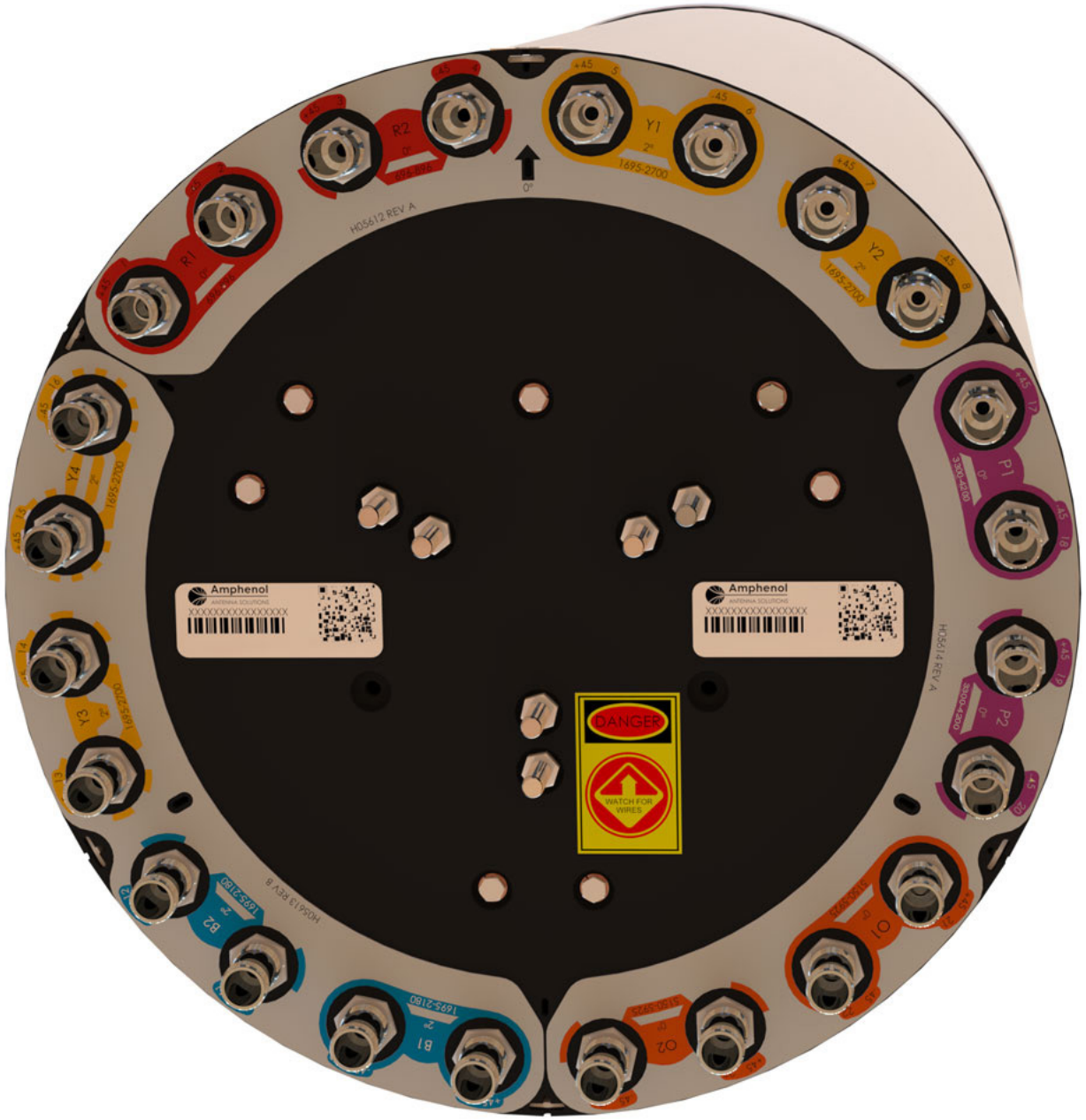
BOTTOM VIEW - LABELING



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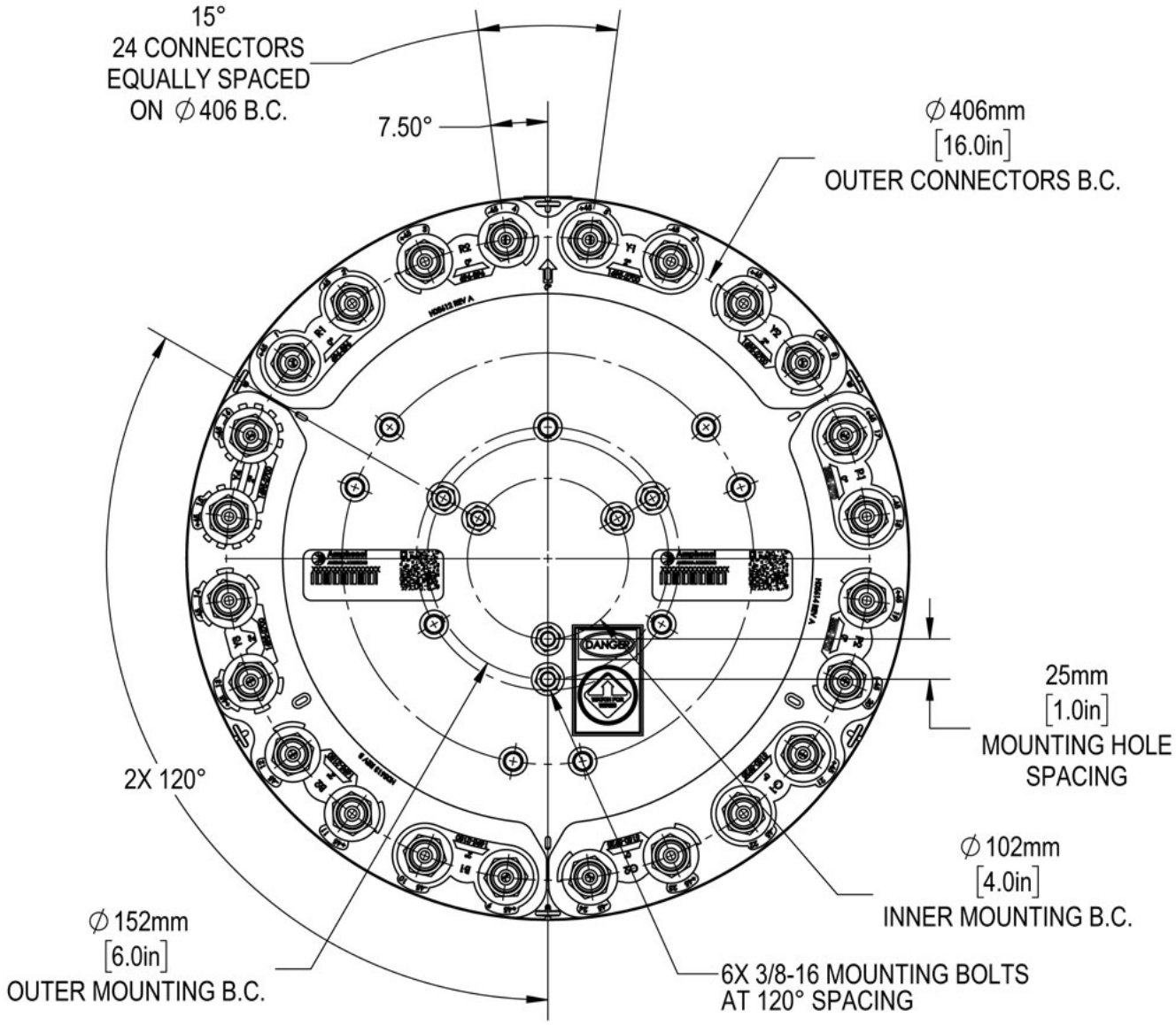
BOTTOM VIEW - CONNECTOR DIAGRAM



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	0E	BK BR
(2x) 696-896	(2x) 1695-2180 (4x) 1695-2700	(2x) 3300-4200	(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 with Extended CBRS Band	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

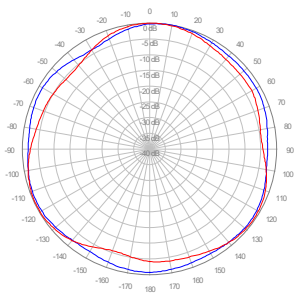
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND				ORDER MODEL NUMBER
	696-896 MHz	1696-2180 MHz 1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	
Grey Pantone 420 C	0°	2°	0°	0°	2C6U4MT360X12F020s0E
	0°	4°	0°	0°	2C6U4MT360X12F040s0E
	0°	6°	0°	0°	2C6U4MT360X12F060s0E
	0°	B1 and B2 = 6° Y1 - Y4 = 2°	0°	0°	2C6U4MT360X12FAAAs0E
	4°	2°	0°	0°	2C6U4MT360X12F420s0E
	4°	4°	0°	0°	2C6U4MT360X12F440s0E
	4°	6°	0°	0°	2C6U4MT360X12F460s0E
	4°	B1 and B2 = 4° Y1 - Y4 = 2°	0°	0°	2C6U4MT360X12FBBBs0E
Brown Pantone 476 C	0°	2°	0°	0°	2C6U4MT360X12F020s0EBR
	0°	4°	0°	0°	2C6U4MT360X12F040s0EBR
	0°	6°	0°	0°	2C6U4MT360X12F060s0EBR
	0°	B1 and B2 = 6° Y1 - Y4 = 2°	0°	0°	2C6U4MT360X12FAAAs0EBR
	4°	2°	0°	0°	2C6U4MT360X12F420s0EBR
	4°	4°	0°	0°	2C6U4MT360X12F440s0EBR
	4°	6°	0°	0°	2C6U4MT360X12F460s0EBR
	4°	B1 and B2 = 4° Y1 - Y4 = 2°	0°	0°	2C6U4MT360X12FBBBs0EBR
Black RAL 9011	0°	2°	0°	0°	2C6U4MT360X12F020s0EBK
	0°	4°	0°	0°	2C6U4MT360X12F040s0EBK
	0°	6°	0°	0°	2C6U4MT360X12F060s0EBK
	0°	B1 and B2 = 6° Y1 - Y4 = 2°	0°	0°	2C6U4MT360X12FAAAs0EBK
	4°	2°	0°	0°	2C6U4MT360X12F420s0EBK
	4°	4°	0°	0°	2C6U4MT360X12F440s0EBK
	4°	6°	0°	0°	2C6U4MT360X12F460s0EBK
	4°	B1 and B2 = 4° Y1 - Y4 = 2°	0°	0°	2C6U4MT360X12FBBBs0EBK

2C6U4MT360X12Fwxys0E

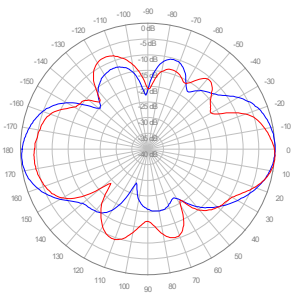
750 MHz
850 MHz

R1, 0° TILT

+45°

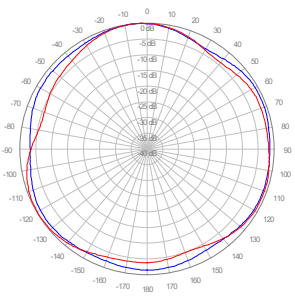


Azimuth



Elevation

-45°



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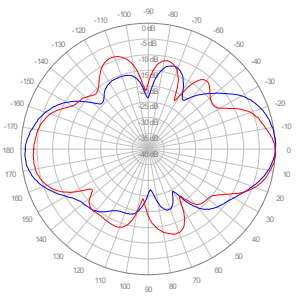
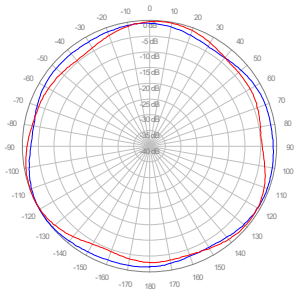


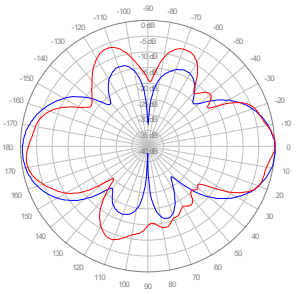
Elevation

R2, 0° TILT

+45°

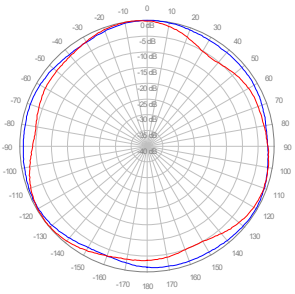


Azimuth



Elevation

-45°



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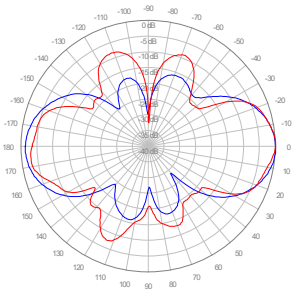


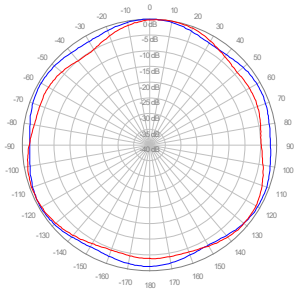
Elevation

2C6U4MT360X12Fwxys0E

750 MHz
850 MHz

R1, 4° TILT

+45°



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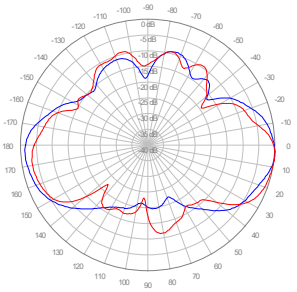
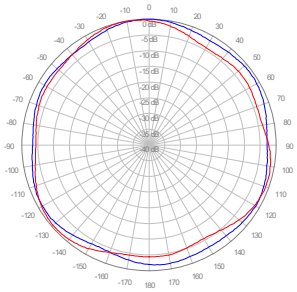


Elevation

-45°



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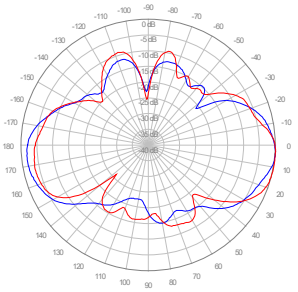
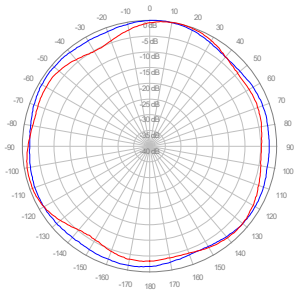


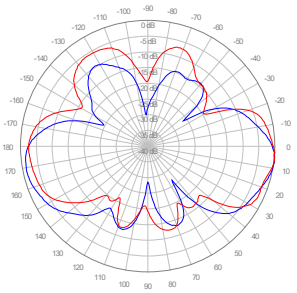
Elevation

R2, 4° TILT

+45°

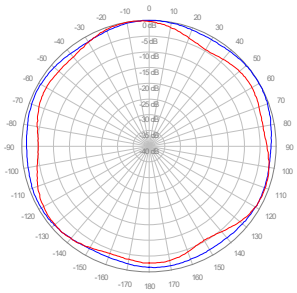


Azimuth



Elevation

-45°



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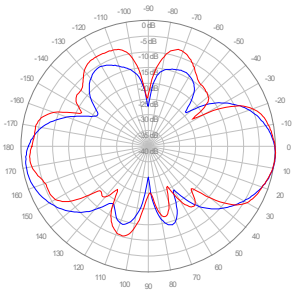


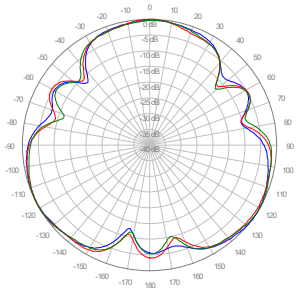
Elevation

2C6U4MT360X12Fwxys0E

1800 MHz
1900 MHz
2100 MHz

B1, 2° TILT

+45°



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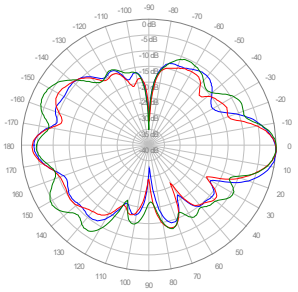
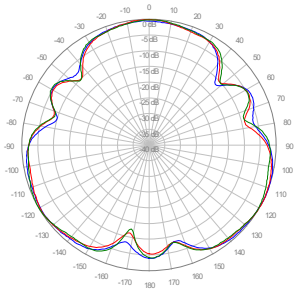


Elevation

-45°



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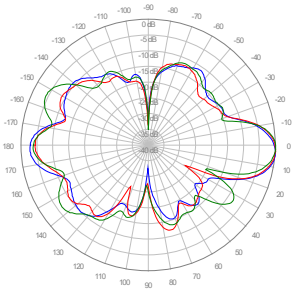
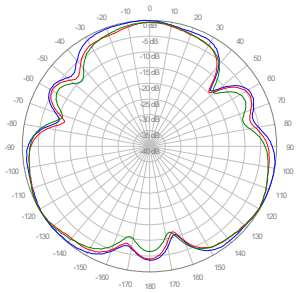


Elevation

B2, 2° TILT

+45°



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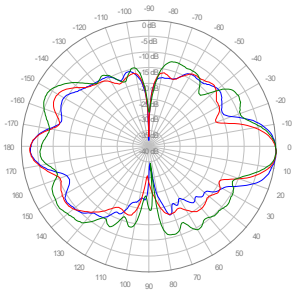
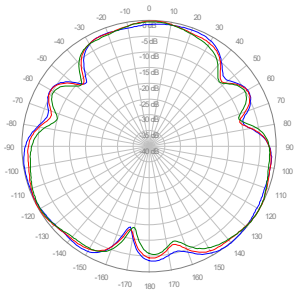
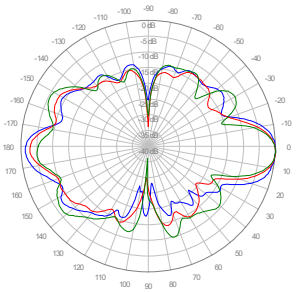


Elevation

-45°



Azimuth



Elevation

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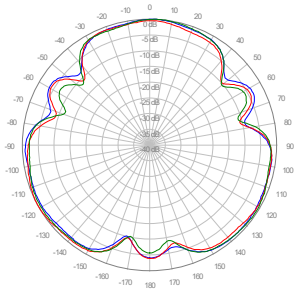
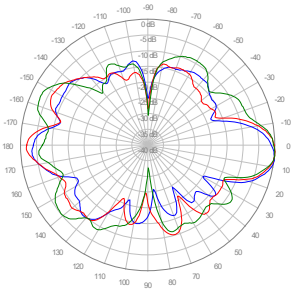
1800 MHz
1900 MHz
2100 MHz

B1, 4° TILT

+45°



Azimuth



Elevation

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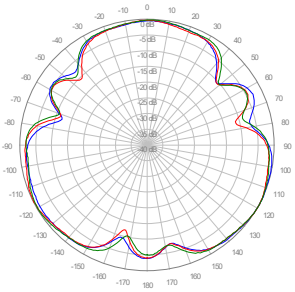
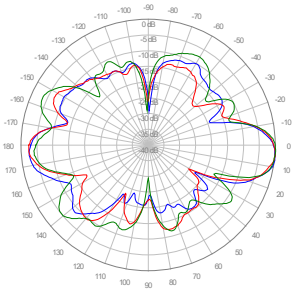


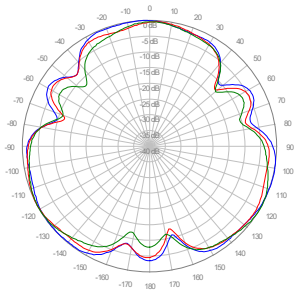
Azimuth



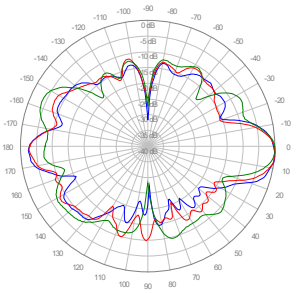
Elevation

B2, 4° TILT

+45°

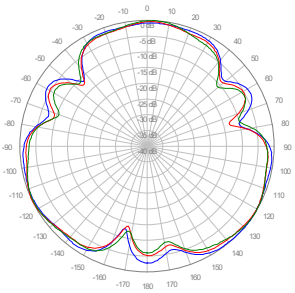


Azimuth

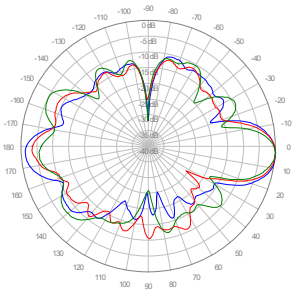


Elevation

-45°



Azimuth



Elevation

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1800 MHz
1900 MHz
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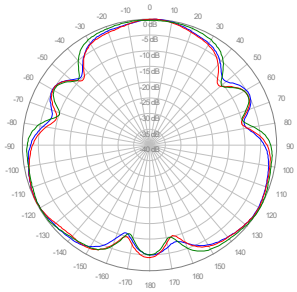
B1, 6° TILT

+45°



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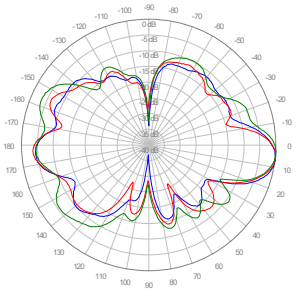
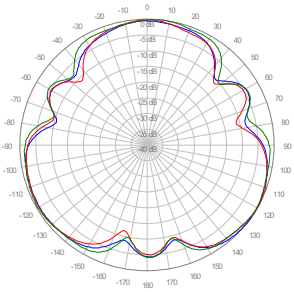


Elevation

-45°



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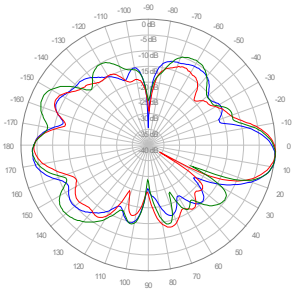
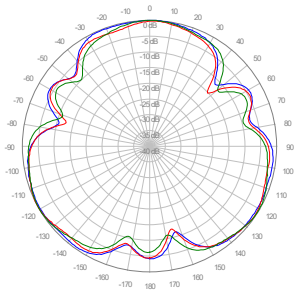


Elevation

B2, 6° TILT

+45°



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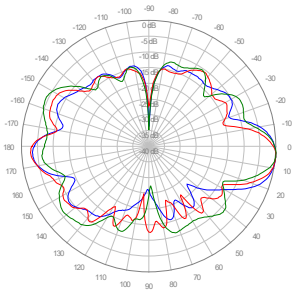

Elevation

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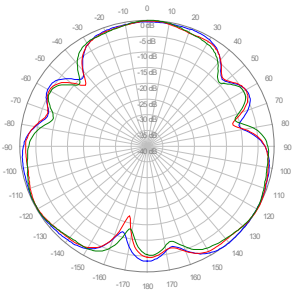
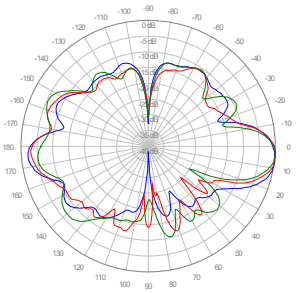


Azimuth



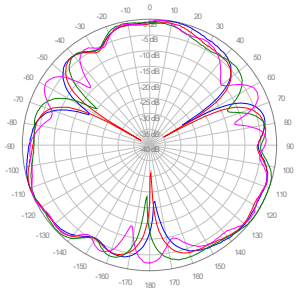
Elevation

2C6U4MT360X12Fwxys0E

1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 2° TILT

+45°



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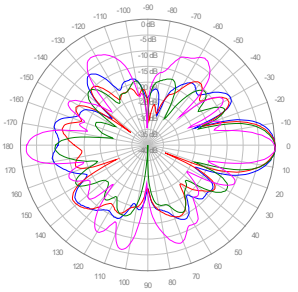
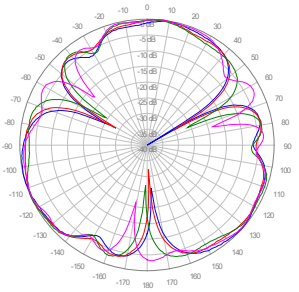
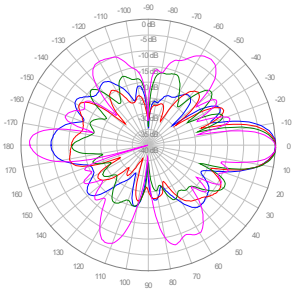


Elevation

-45°



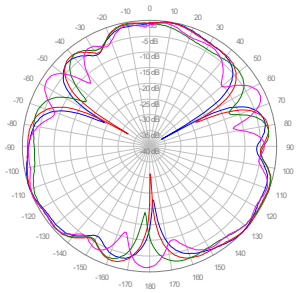
Azimuth



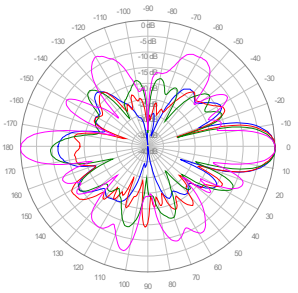
Elevation

Y2, 2° TILT

+45°

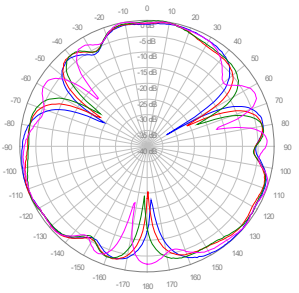


Azimuth

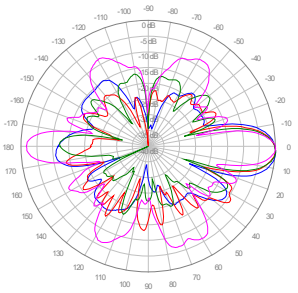


Elevation

-45°



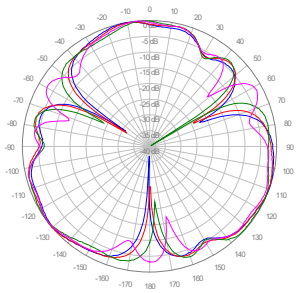
Azimuth



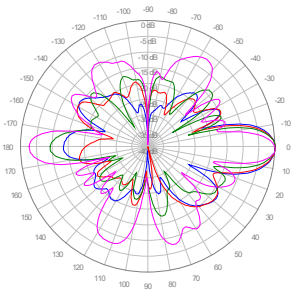
Elevation

Y3, 2° TILT

+45°

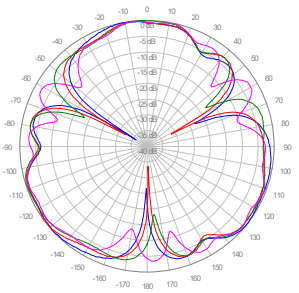


Azimuth



Elevation

-45°



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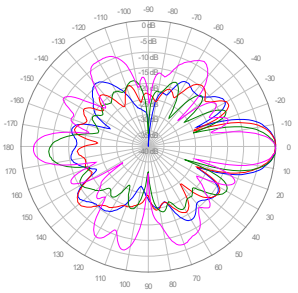
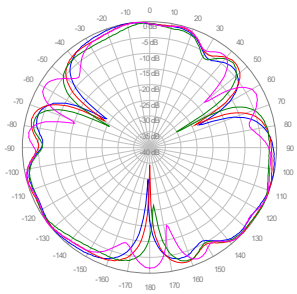


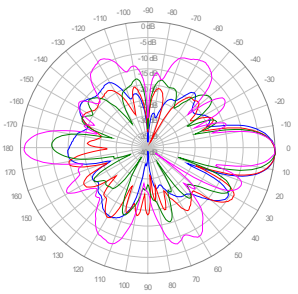
Elevation

Y4, 2° TILT

+45°

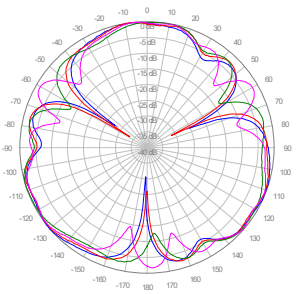


Azimuth

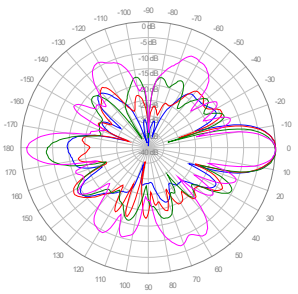


Elevation

-45°



Azimuth



Elevation

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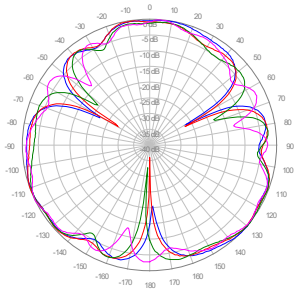
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 4° TILT

+45°



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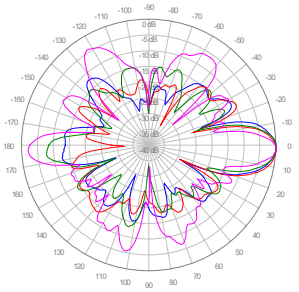
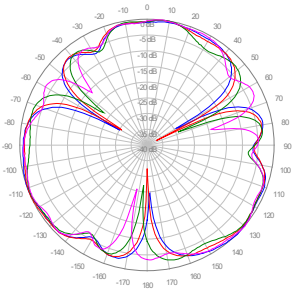
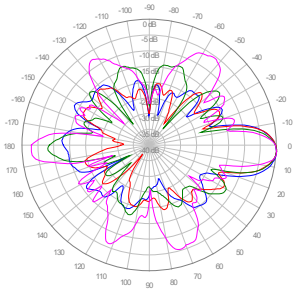


Elevation

-45°



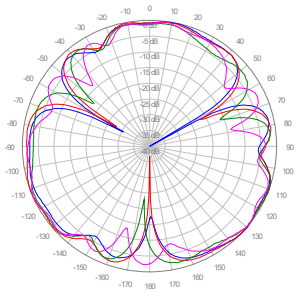
Azimuth



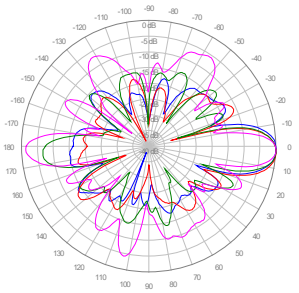
Elevation

Y2, 4° TILT

+45°

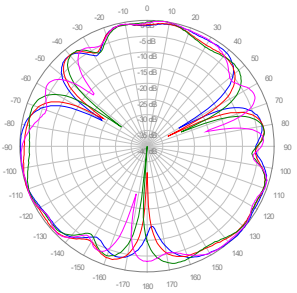


Azimuth

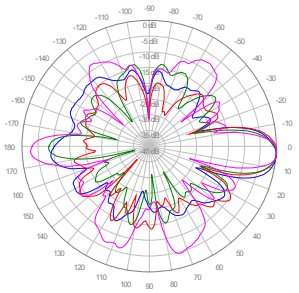


Elevation

-45°



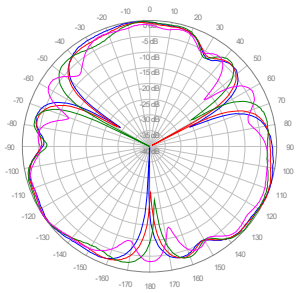
Azimuth



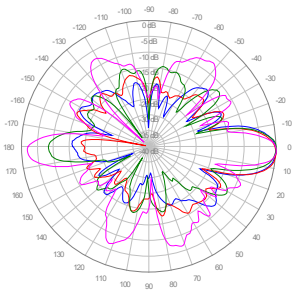
Elevation

Y3, 4° TILT

+45°

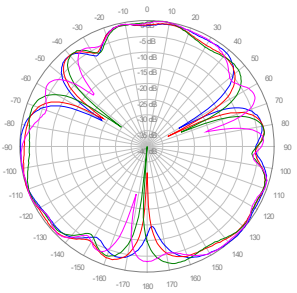


Azimuth

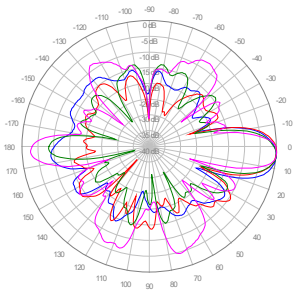


Elevation

-45°



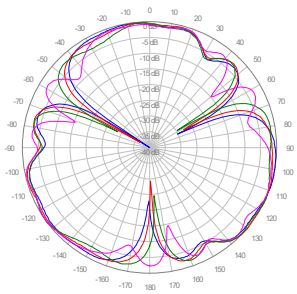
Azimuth



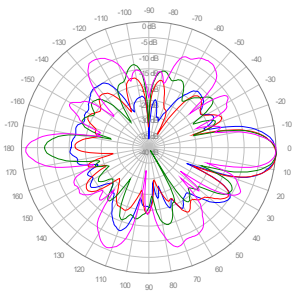
Elevation

Y4, 4° TILT

+45°

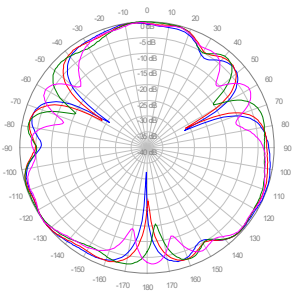


Azimuth

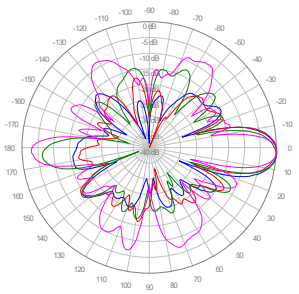


Elevation

-45°



Azimuth



Elevation

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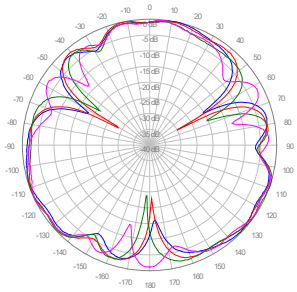
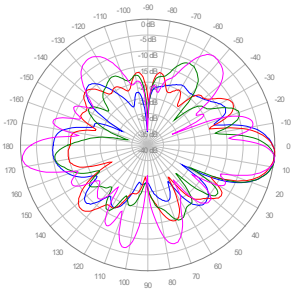
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 6° TILT

+45°

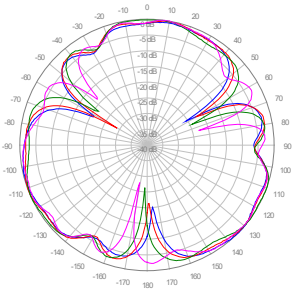


Azimuth

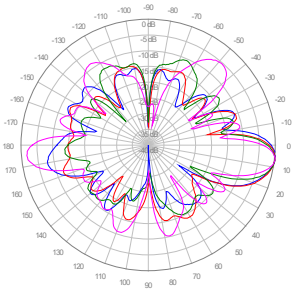


Elevation

-45°



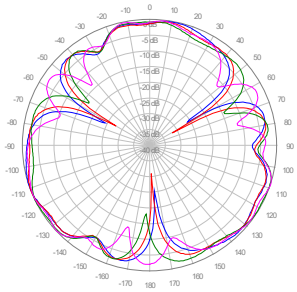
Azimuth



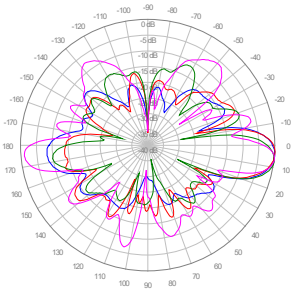
Elevation

Y2, 6° TILT

+45°

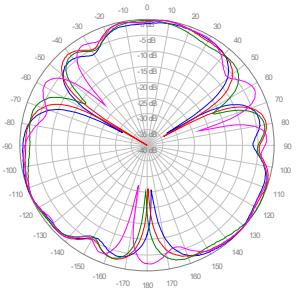


Azimuth

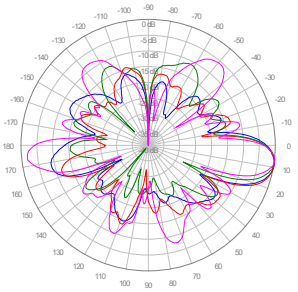


Elevation

-45°



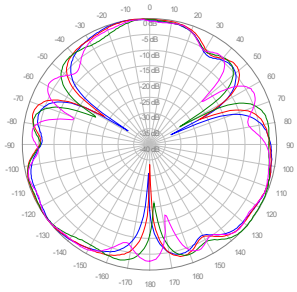
Azimuth



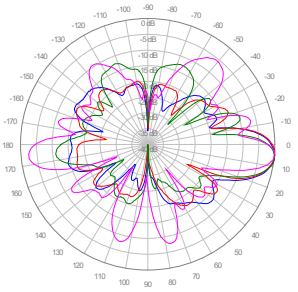
Elevation

Y3, 6° TILT

+45°

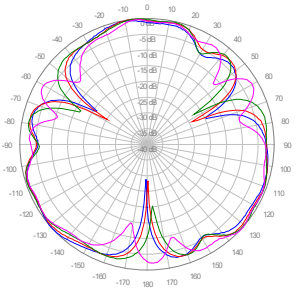


Azimuth

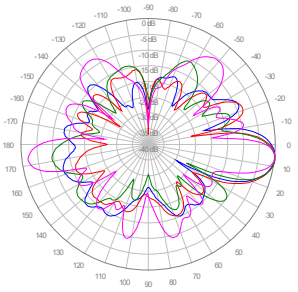


Elevation

-45°



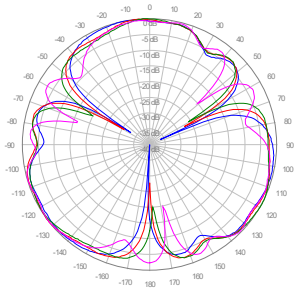
Azimuth



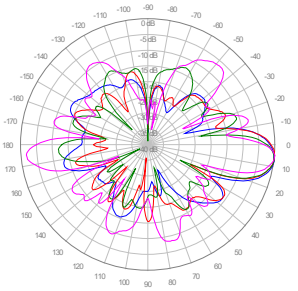
Elevation

Y4, 6° TILT

+45°

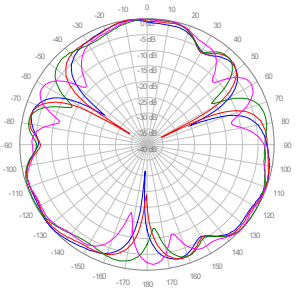


Azimuth

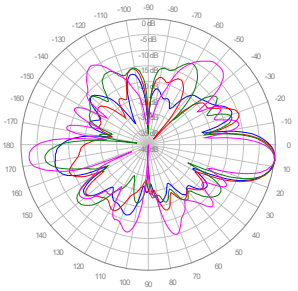


Elevation

-45°



Azimuth

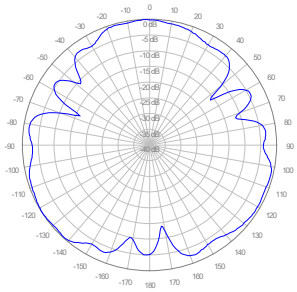


Elevation

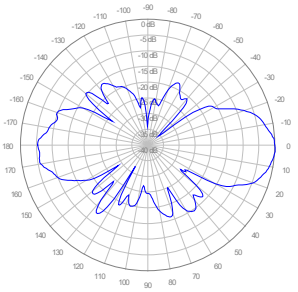
2C6U4MT360X12Fwxys0E

P1, 0° TILT

+45°

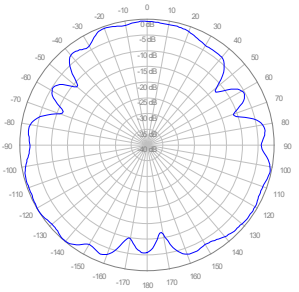


Azimuth (3600 MHz)

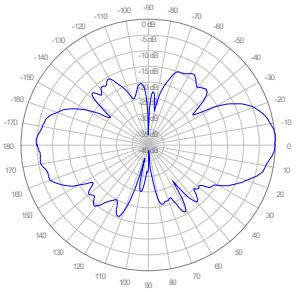


Elevation (3600 MHz)

-45°



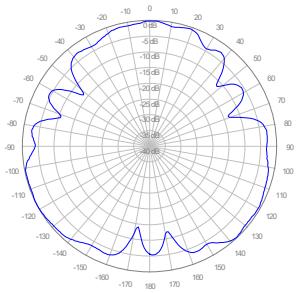
Azimuth (3600 MHz)



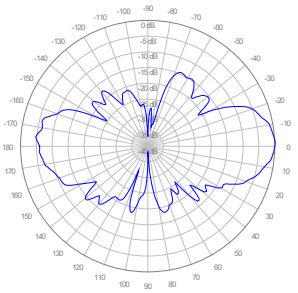
Elevation (3600 MHz)

P2, 0° TILT

+45°

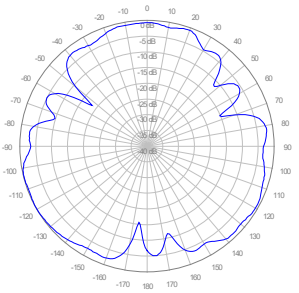


Azimuth (3600 MHz)

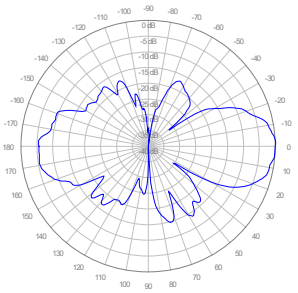


Elevation (3600 MHz)

-45°



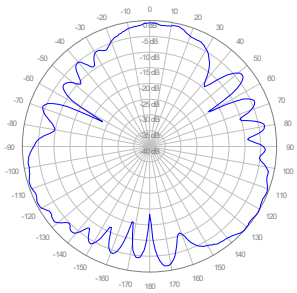
Azimuth (3600 MHz)



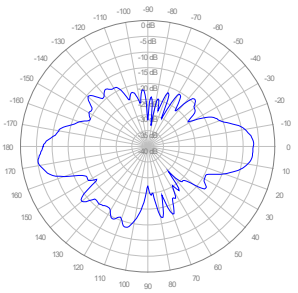
Elevation (3600 MHz)

O1, 0° TILT

+45°

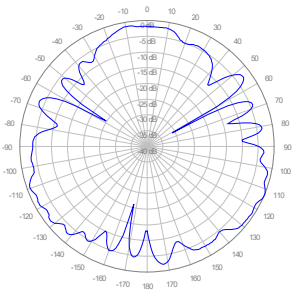


Azimuth (5600 MHz)

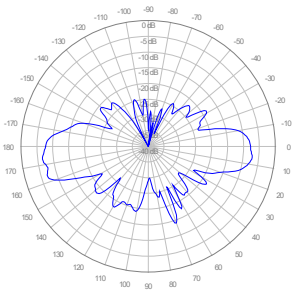


Elevation (5600 MHz)

-45°



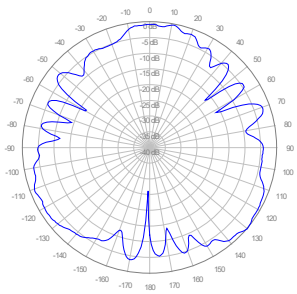
Azimuth (5600 MHz)



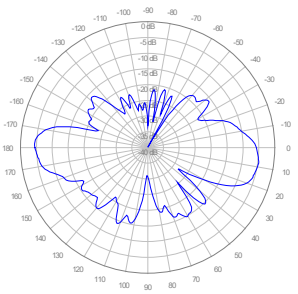
Elevation (5600 MHz)

O2, 0° TILT

+45°

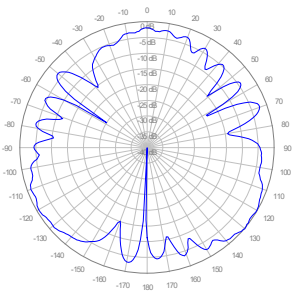


Azimuth (5600 MHz)

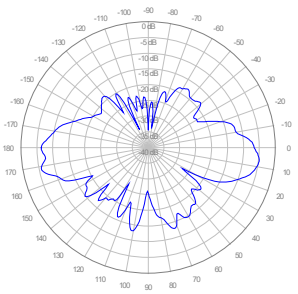


Elevation (5600 MHz)

-45°



Azimuth (5600 MHz)



Elevation (5600 MHz)