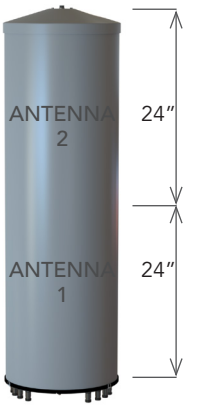
Amphenol ANTENNA SOLUTIONS

12-Port Canister Antenna

(1x) 696-960 | (2x) 1695-2700 | (2x) 3550-3700 | (1x) 5150-5925 MHz

OMNI | 48 IN | FIXED TILT

C2U3MT360X12Fxys0



Features

- 4G/5G Omni configuration with 12 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
		(1x) 696-960	(2x) 1695-2700		(2x) 3550-3700		(1x) 5150-5925
	Array	R1	Y1	Y2	Y3	Y4	V1
	Connector	2 PORTS	4 PORTS		4 PORTS		2 PORTS
	Polarization	XPOL	XPOL		XPOL		XPOL
	Azimuth Beamwidth (avg)	360°	360°		360°		360°
	Electrical Downtilt	0°, 5°	0°, 6°		0°		0°
	Configuration	OMNI CONFIGURATION					
	Connector Type	(12x) 4.3-10 FEMALE CONNECTORS					
	Dimensions	1219 x Ø371 mm (48.0 x Ø14.6 in)					
	Radome Color Options	GREY, BROWN or BLACK					

ELECTRICAL SPECIFICATIONS Low Band			**R1**	
Frequency Range		MHz	(1x) 696-960	
Frequency Sub-Range		MHz	696-806	806-960
Polarization		---	(1x) ±45°	
Gain	BASTA	dBi	7.6 ± 0.5	8.2 ± 0.7
	MAX	dBi	8.1	8.9
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	21.2° ± 1.2°	18.3° ± 1.6°
Electrical Downtilt		degrees	(x) 0°, 5°	
Impedance		Ohms	50Ω	
VSWR		---	≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153	
Upper Sidelobe Suppression		dB	> 14	
Isolation Between Ports		dB	> 20	
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			■ **Y1**	■ **Y2**		
Frequency Range		MHz	(2x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(2x) ±45°			
Gain	BASTA	dBi	9.1 ± 1.4	9.4 ± 1.1	9.3 ± 1.0	9.4 ± 1.2
	MAX	dBi	10.5	10.5	10.3	10.6
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	18.5° ± 1.3°	17.2° ± 1.0°	16.1° ± 1.7°	13.5° ± 1.4°
Electrical Downtilt		degrees	(y) 0°, 6°			
Impedance		Ohms	50Ω			
VSWR		---	≤ 1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153			
Upper Sidelobe Suppression		dB	> 14			
Isolation Between Ports		dB	> 25			
Input Power		Watts	300W			

ELECTRICAL SPECIFICATIONS CBRS Band			■ **Y3**	■ **Y4**
Frequency Range		MHz	(2x) 3550-3700	
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	4.3 ± 0.6	
	MAX	dBi	4.9	
Azimuth Beamwidth (3 dB)		degrees	360°	
Elevation Beamwidth (3 dB)		degrees	37.1° ± 4.8°	
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	> 9	
Isolation Between Ports		dB	> 25	
Input Power		Watts	100W	

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ELECTRICAL SPECIFICATIONS LAA Band			■ **V1**
Frequency Range		MHz	(1x) 5150-5925
Polarization		---	(1x) ±45°
Gain	BASTA	dBi	4.1 ± 0.8
	MAX	dBi	4.9
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	20.2° ± 3.1°
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	> 16
Isolation Between Ports		dB	> 25
Input Power		Watts	50W

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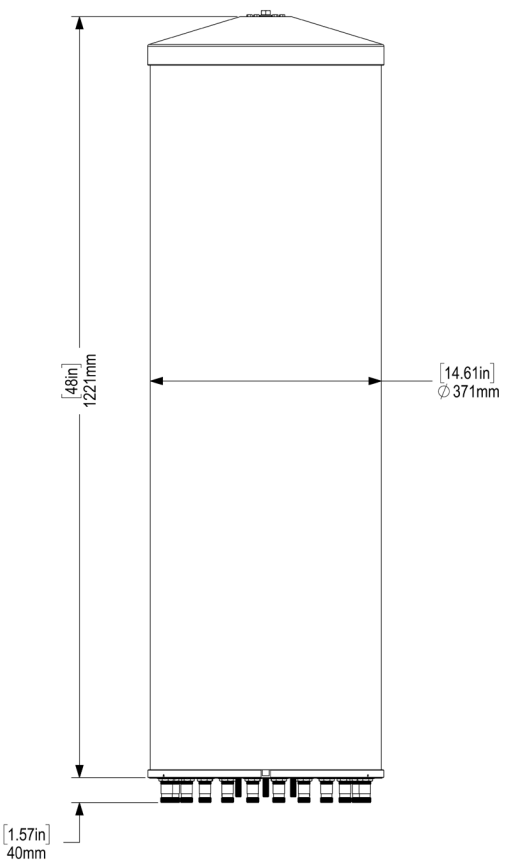
MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	1219 (48.0)
	Diameter		mm (in)	371 (14.6)
Net Weight - Antenna Only			kg (lbs)	16.4 (36.2)
Windload		Calculation	km/h (mph)	160 (100)
		Frontal	N (lbf)	391 (88)
Survival Wind Speed			km/h (mph)	241 (150)
Wind Area			m^2 (ft^2)	0.47 (5.0)
Volume		Total	m^3 (ft^3)	0.13 (4.7)
		Each Antenna	m^3 (ft^3)	0.065 (2.33)
Connector		Type	---	4.3-10 Female
		Quantity	---	12
		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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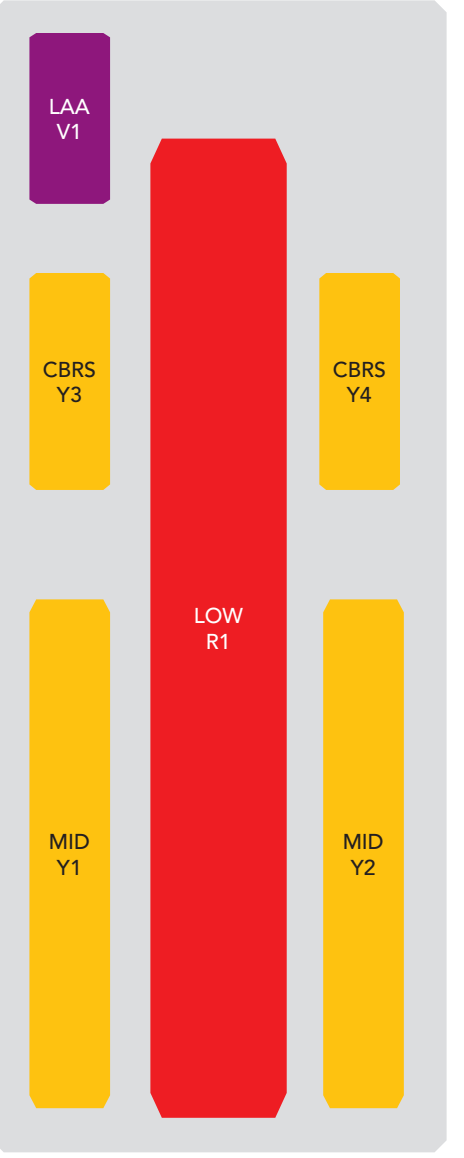
ARRAY LAYOUT Topology

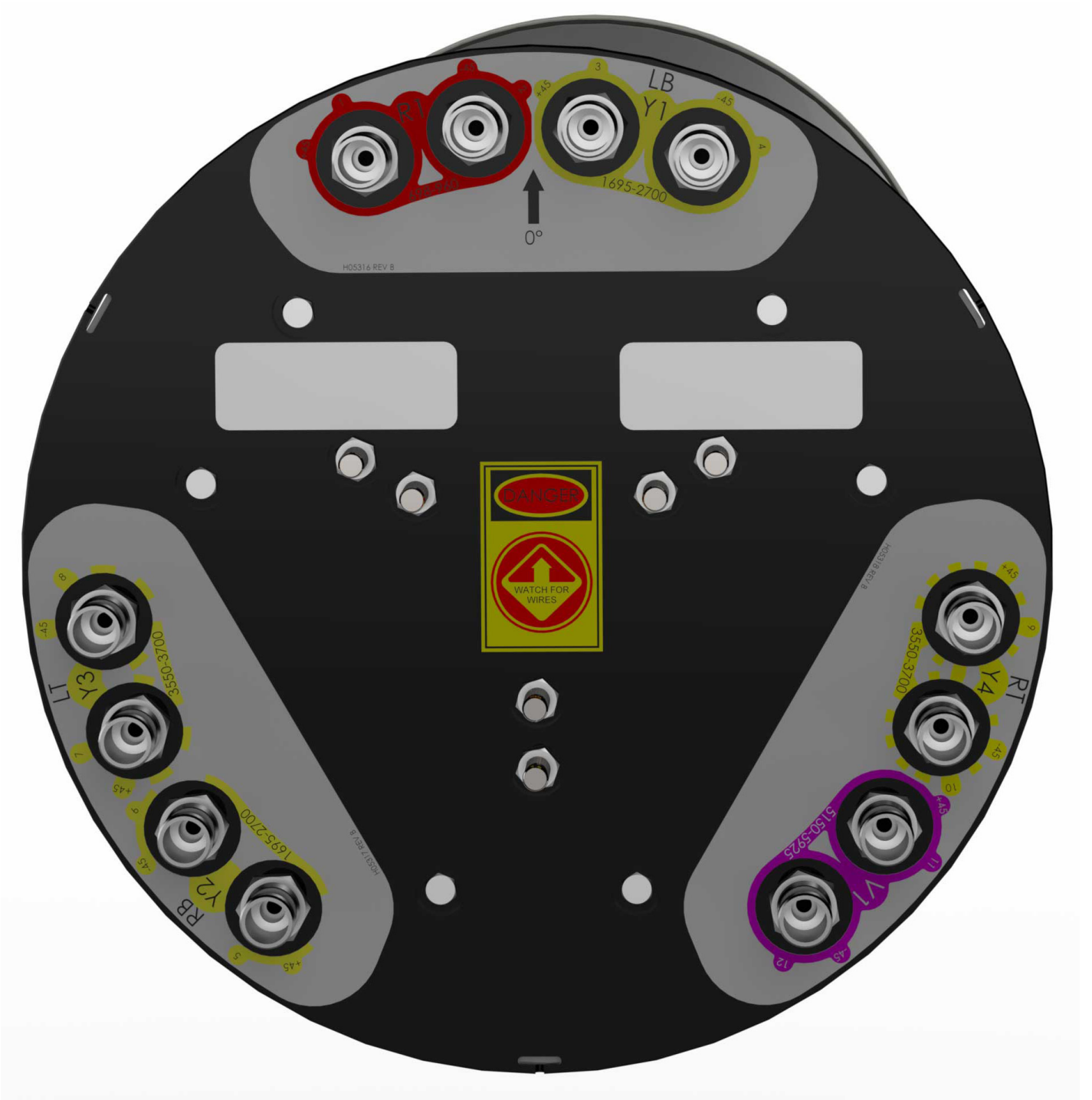
FREQUENCY		ARRAY	CONNECTOR	CONNECTOR TYPE
LOW BAND	696-960	R1	1-2	(2x) 4.3-10 Female
MID BAND	1695-2700	Y1	3-4	(2x) 4.3-10 Female
	1695-2700	Y2	5-6	(2x) 4.3-10 Female
CBRS BAND	3550-3700	Y3	7-8	(2x) 4.3-10 Female
	3550-3700	Y4	9-10	(2x) 4.3-10 Female
LAA BAND	5150-5925	V1	11-12	(2x) 4.3-10 Female



The illustration is not shown to scale.

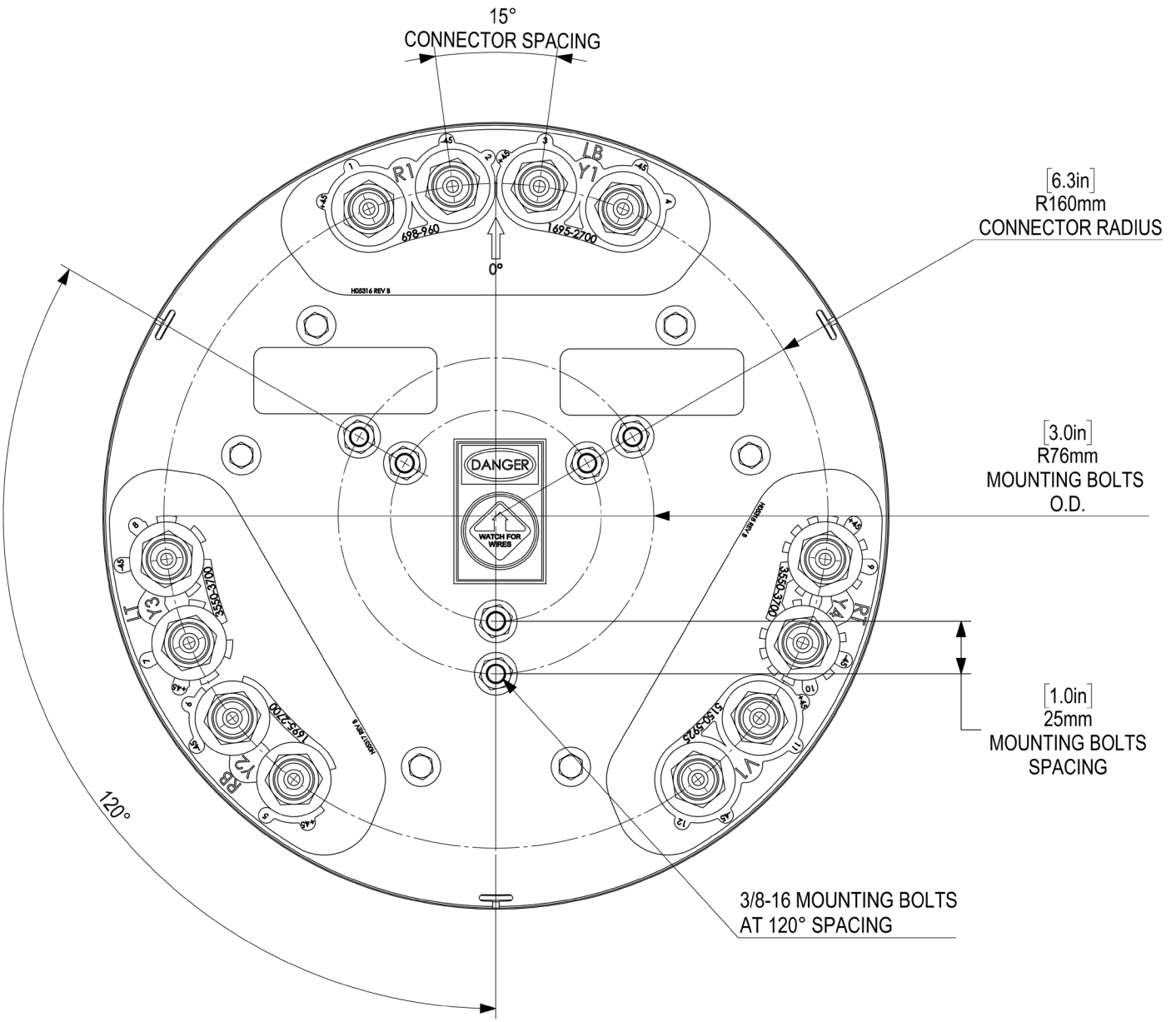
C2U3MT360X12Fxys0

BOTTOM VIEW - LABELING



C2U3MT360X12Fxys0

BOTTOM VIEW - CONNECTOR DIAGRAM



INSTALLATION Please read all installation notes before installing this product.

⚠	Always attach the antenna using all mounting points.
	Do not install the antenna with the connectors facing upwards.

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MOUNTING KITS Select from the following mounting options when ordering. Mounting kits for canister antennas are ordered as a separate line item.

MODEL NUMBER		DESCRIPTION
CWT-MKS-SIDE		SIDE MOUNTING BRACKET KIT FOR CANISTER ANTENNA
CWT-MKS-TOP		TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA
WB3X-MKS-01		UTILITY POLE MOUNTING BRACKET KIT FOR CANISTER ANTENNA
CWT-MKS-BASE-xx		WIDE DIAMETER POLE TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA. AVAILABLE IN BROWN, BLACK AND GREY TO MATCH ANTENNA RADOME AND/OR MOUNTING STRUCTURE.

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

NUMBER OF BANDS and OPERATING FREQUENCY				PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA-TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
C	2U	3M		T	360	X	12	F	xy	s	0	BK BR
(1x) 696-960	(2x) 1695-2700	(2x) 3550-3700	(1x) 5150-5925	Tri-Sector	360° Omni	XPOL	1.2 meters	Fixed Tilt	These letters are placeholders for fixed tilt options. Refer to Electrical Specifications 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.

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°	0°	0°	0°	C2U3MT360X12F00s0
	0°	6°	0°	0°	C2U3MT360X12F06s0
	5°	0°	0°	0°	C2U3MT360X12F50s0
	5°	6°	0°	0°	C2U3MT360X12F56s0
Brown Pantone 476 C	0°	0°	0°	0°	C2U3MT360X12F00s0BR
	0°	6°	0°	0°	C2U3MT360X12F06s0BR
	5°	0°	0°	0°	C2U3MT360X12F50s0BR
	5°	6°	0°	0°	C2U3MT360X12F56s0BR
Black RAL 9011	0°	0°	0°	0°	C2U3MT360X12F00s0BK
	0°	6°	0°	0°	C2U3MT360X12F06s0BK
	5°	0°	0°	0°	C2U3MT360X12F50s0BK
	5°	6°	0°	0°	C2U3MT360X12F56s0BK

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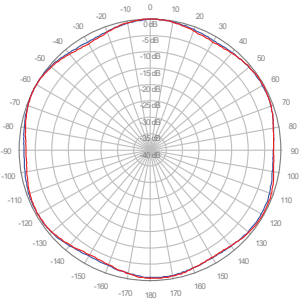
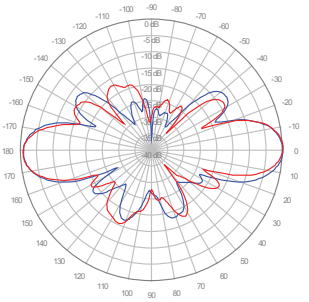
R1, 0° TILT

+45°

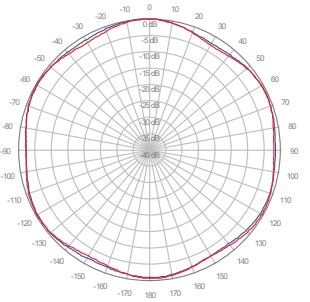


Azimuth



Elevation

-45°



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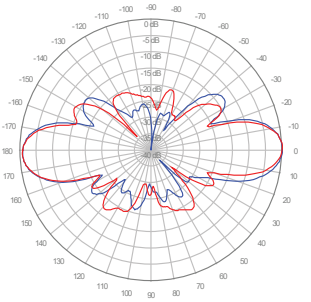
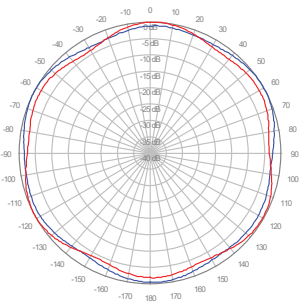


Elevation

R1, 5° TILT

+45°



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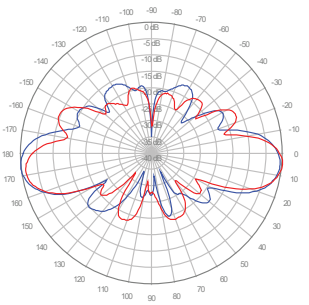
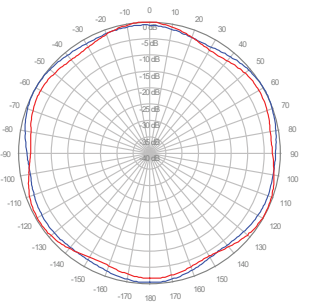


Elevation

-45°



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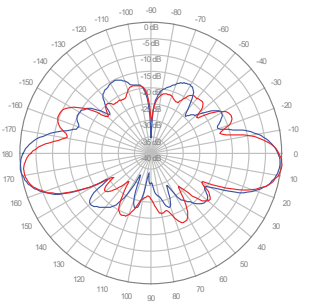


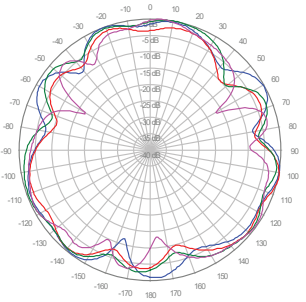
Elevation

C2U3MT360X12Fxys0

1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 0° TILT

+45°



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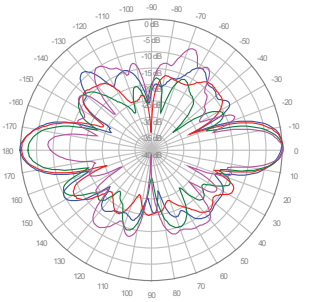
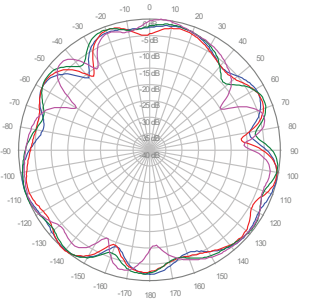


Elevation

-45°



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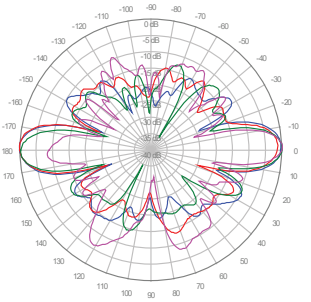
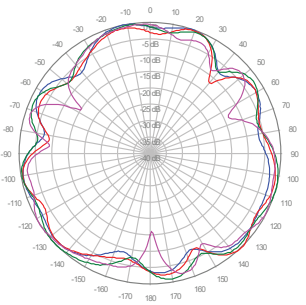


Elevation

Y2, 0° TILT

+45°



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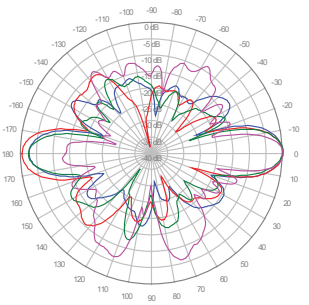
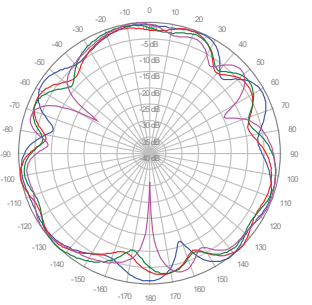


Elevation

-45°



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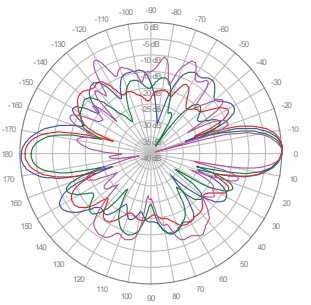
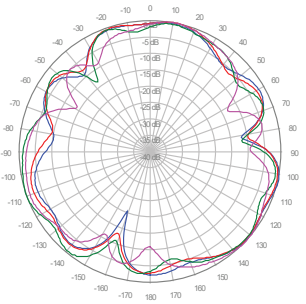


Elevation

Y1, 6° TILT

+45°



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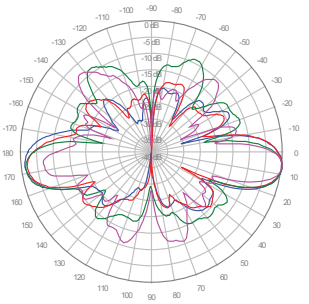
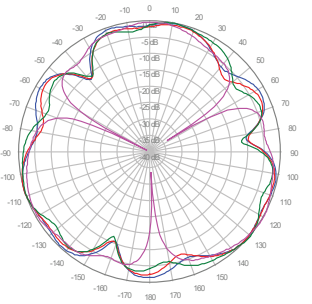


Elevation

-45°



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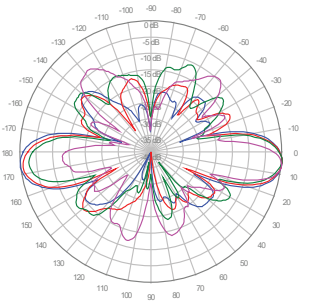
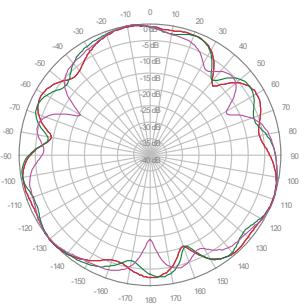


Elevation

Y2, 6° TILT

+45°



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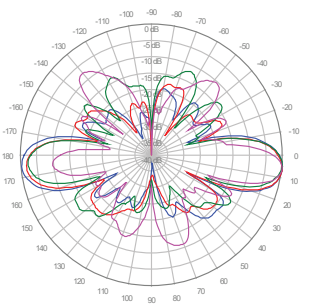
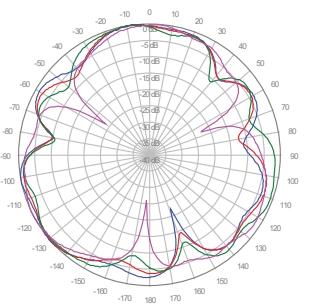


Elevation

-45°



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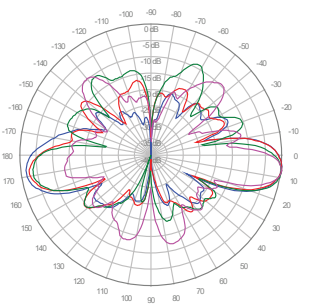

Elevation

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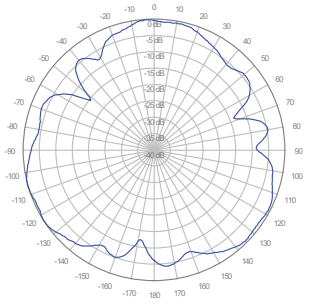
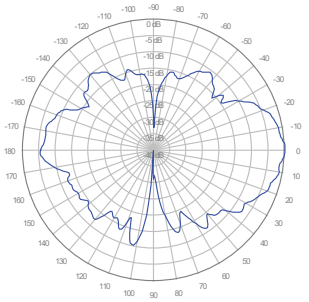
Y3, 0° TILT

+45°

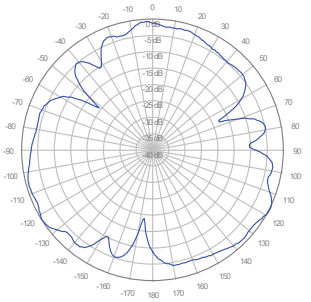


Azimuth (3600 MHz)

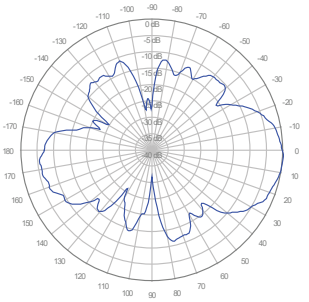


Elevation (3600 MHz)

-45°



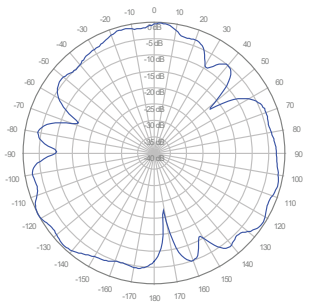
Azimuth (3600 MHz)



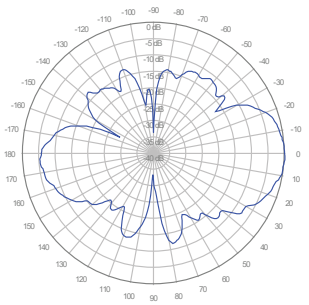
Elevation (3600 MHz)

Y4, 0° TILT

+45°

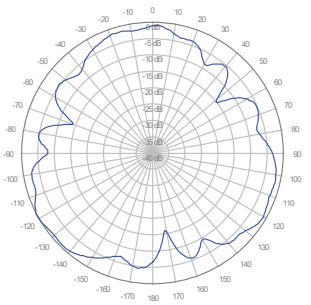


Azimuth (3600 MHz)

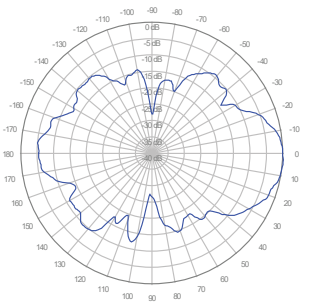


Elevation (3600 MHz)

-45°



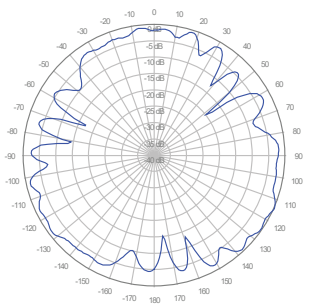
Azimuth (3600 MHz)



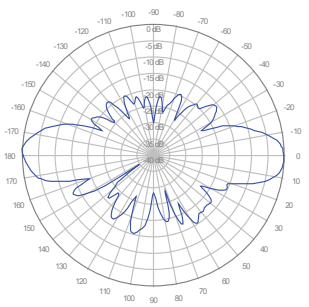
Elevation (3600 MHz)

V1, 0° TILT

+45°

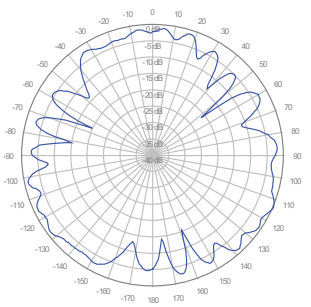


Azimuth (5600 MHz)

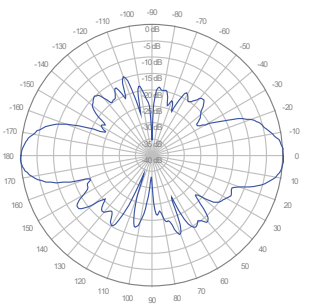


Elevation (5600 MHz)

-45°



Azimuth (5600 MHz)



Elevation (5600 MHz)