Amphenol ANTENNA SOLUTIONS

6-Port Canister Antenna

(1x) 696-960 | (2x) 1695-2700 MHz

OMNI | 48.1 IN | FIXED TILT

CUUT360X12Fxyz0

Features

- Omni configuration with 6 connectors
- Tri-sector antenna with internal power splitters creating a quasi-omni pattern
- Ideal for Small Cell / DAS applications
- Available with 4.3-10 or 7/16-DIN connectors
- Available for order with a grey, brown or black radome

PRODUCT OVERVIEW				
	Frequency Range (MHz)	LOW	MID	
		(1x) 696-960	(2x) 1695-2700	
	Array	R1	Y1	Y2
	Connector	2 PORTS	4 PORTS	
	Polarization	XPOL	XPOL	
	Azimuth Beamwidth (avg)	360°	360°	
	Electrical Downtilt	0°, 6°, 12°	0°, 4°	
	Configuration	OMNI CONFIGURATION		
	Total Connector Count	6 PORTS		
	Connector Type	4.3-10 FEMALE or 7/16-DIN FEMALE		
	Dimensions	1221 x Ø371 mm (48.1 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	824-960
Polarization		---	(1x) ±45°	
Gain	BASTA	dBi	8.6 ± 0.9	9.1 ± 0.6
	MAX	dBi	9.5	9.7
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	20.9° ± 1.3°	18.0° ± 1.8°
Electrical Downtilt		degrees	(x) 0°, 6°, 12°	
Impedance		Ohms	50Ω	
VSWR		---	≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153	
Upper Sidelobe Suppression		dB	> 14	> 11
Cross Polar Isolation		dB	20	
Interband Isolation		dB	25	
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	12.0 ± 0.7	11.7 ± 0.7	10.9 ± 0.8	10.1 ± 2.4
	MAX	dBi	12.7	12.4	11.7	12.5
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	9.4° ± 0.7°	9.5° ± 0.4°	9.4° ± 0.5°	9.1° ± 2.4°
Electrical Downtilt		degrees	(y) 0°, 4°			
Impedance		Ohms	50Ω			
VSWR		---	≤ 1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153			
Upper Sidelobe Suppression		dB	> 13	> 12	> 11	> 11
Cross Polar Isolation		dB	25			
Interband Isolation		dB	25			
Input Power		Watts	300W			

ARRAY LAYOUT Topology

FREQUENCY		ARRAY	CONNECTOR	CONNECTOR TYPE
LOW BAND	696-960	R1	1-2	(2x) 4.3-10 Female or 7/16-DIN Female
MID BAND	1695-2700	Y1	3-4	(2x) 4.3-10 Female or 7/16-DIN Female
	1695-2700	Y2	5-6	(2x) 4.3-10 Female or 7/16-DIN Female

The illustration is not shown to scale.

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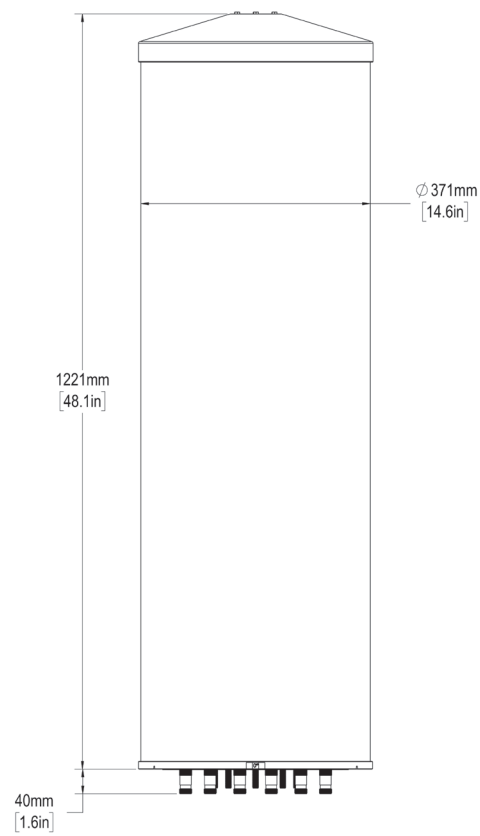
MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	1221 (48.1)
	Diameter		mm (in)	371 (14.6)
Net Weight - Antenna Only			kg (lbs)	17.3 (38.1)
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			m^3 (ft^3)	0.13 (4.7)
Volume per Sector			m^3 (ft^3)	0.4 (1.6)
Connector		Type	---	4.3-10 Female or 7/16-DIN Female
		Quantity	---	6
		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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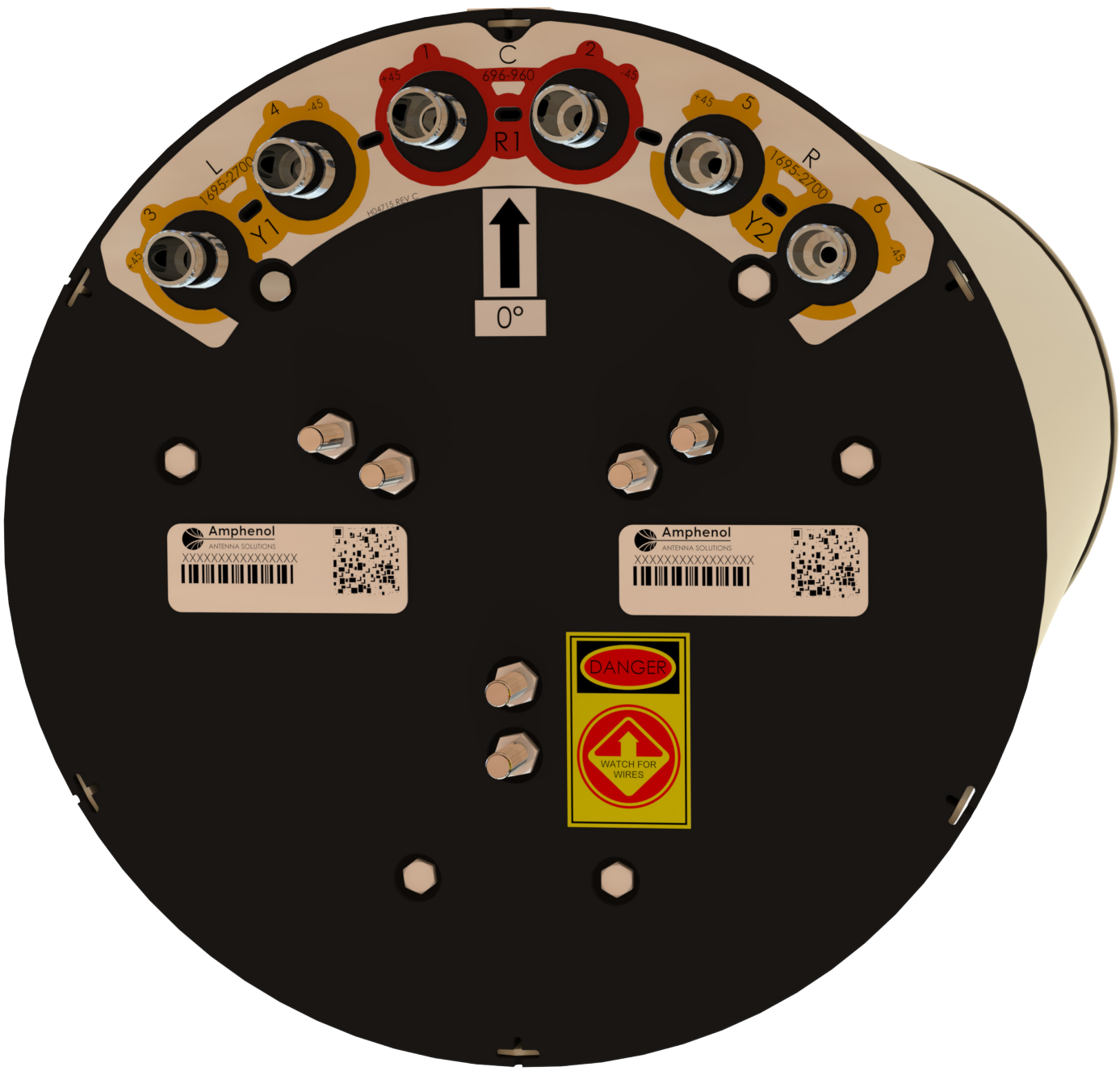
BOTTOM VIEW - LABELING



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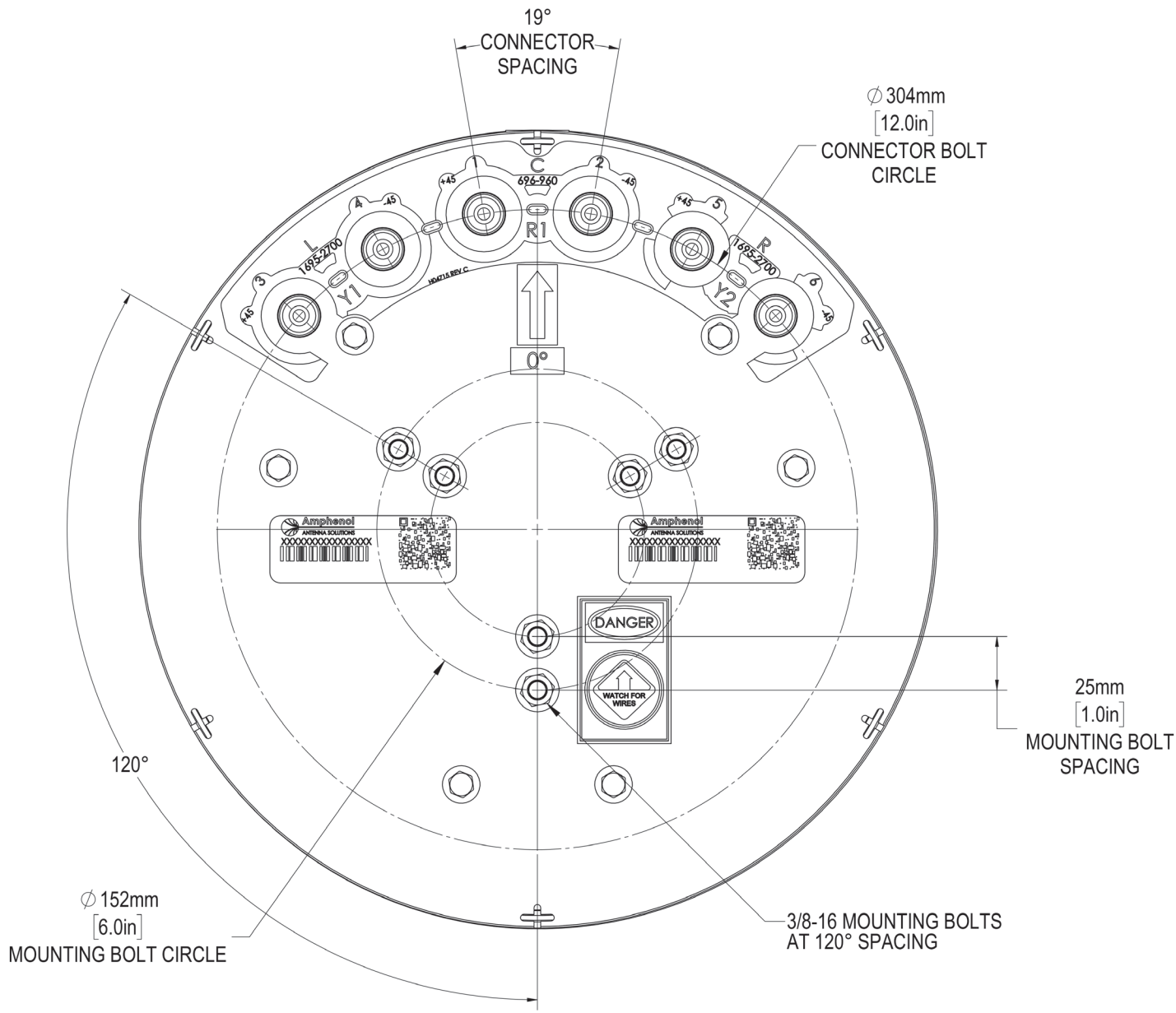
BOTTOM VIEW - CONNECTOR DIAGRAM



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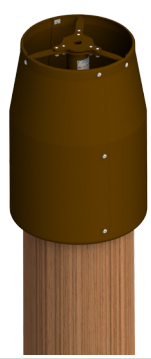
MOUNTING KITS Select from the following mounting options when ordering. Mounting kits for canister antennas are ordered as a separate line item.

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
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	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
C	UU	T	360	X	12	F	xy	z	0	BK BR
(1x) 696-960	(2x) 1695-2700	Tri-Sector	Omni	XPOL	1.2 meters	Fixed Tilt	These letters are placeholders for fixed tilt options. Refer to Electrical Specifications for available tilt options.	The letter z is a placeholder for the connector type. Replace z with "s" for a 4.3-10 Female Connector; or replace z with "D" for a 7/16-DIN Female 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

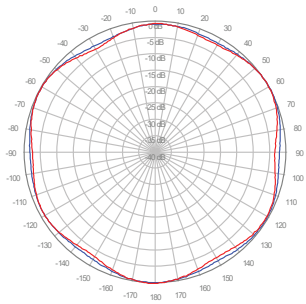
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND		SELECT CONNECTOR TYPE	
	LOW BAND	MID BAND	4.3-10 FEMALE	7/16-DIN FEMALE
Grey Pantone 420 C	0°	0°	CUUT360X12F00s0	CUUT360X06F00D0
	0°	4°	CUUT360X12F04s0	CUUT360X12F04D0
	6°	0°	CUUT360X12F60s0	CUUT360X12F60D0
	6°	4°	CUUT360X12F64s0	CUUT360X12F64D0
	12°	0°	CUUT360X12F120s0	CUUT360X12F120D0
	12°	4°	CUUT360X12F124s0	CUUT360X12F124D0
Brown Pantone 476 C	0°	0°	CUUT360X12F00s0BR	CUUT360X12F00D0BR
	0°	4°	CUUT360X12F04s0BR	CUUT360X12F04D0BR
	6°	0°	CUUT360X12F60s0BR	CUUT360X12F60D0BR
	6°	4°	CUUT360X12F64s0BR	CUUT360X12F64D0BR
	12°	0°	CUUT360X12F120s0BR	CUUT360X12F120D0BR
	12°	4°	CUUT360X12F124s0BR	CUUT360X12F124D0BR
Black RAL 9011	0°	0°	CUUT360X12F00s0BK	CUUT360X12F00D0BK
	0°	4°	CUUT360X12F04s0BK	CUUT360X12F04D0BK
	6°	0°	CUUT360X12F60s0BK	CUUT360X12F60D0BK
	6°	4°	CUUT360X12F64s0BK	CUUT360X12F64D0BK
	12°	0°	CUUT360X12F120s0BK	CUUT360X12F120D0BK
	12°	4°	CUUT360X12F124s0BK	CUUT360X12F124D0BK

CUUT360X12Fxyz0

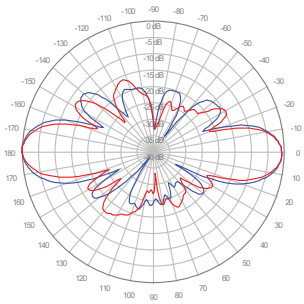
750 MHz
850 MHz

R1, 0° TILT

+45°

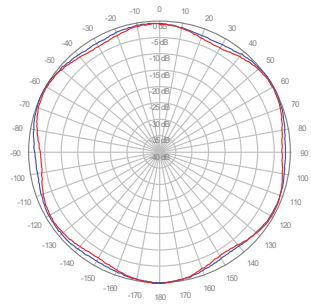


Azimuth



Elevation

-45°



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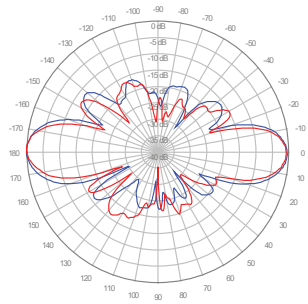
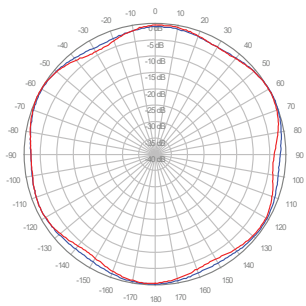


Elevation

R1, 6° TILT

+45°



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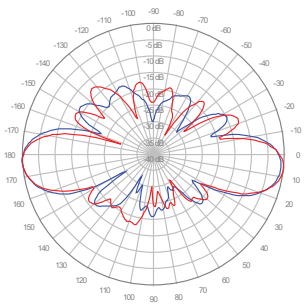
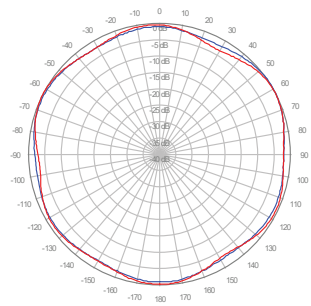


Elevation

-45°



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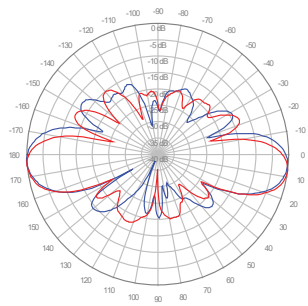
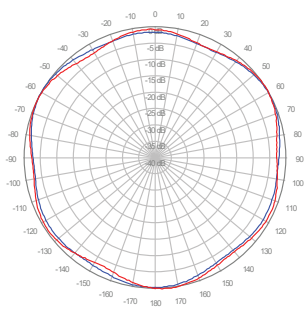


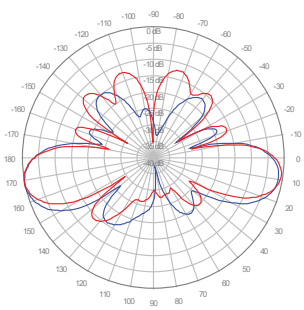
Elevation

R1, 12° TILT

+45°

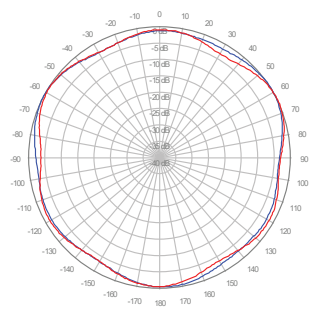


Azimuth



Elevation

-45°



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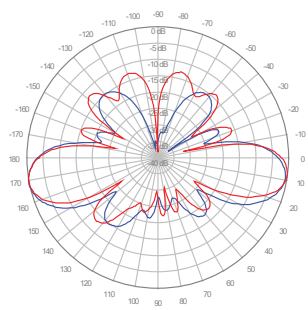


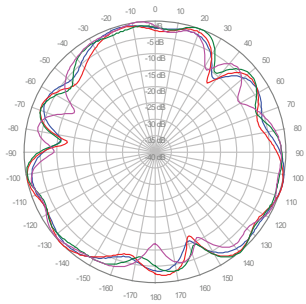
Elevation

CUUT360X12Fxyz0

1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y1, 0° TILT

+45°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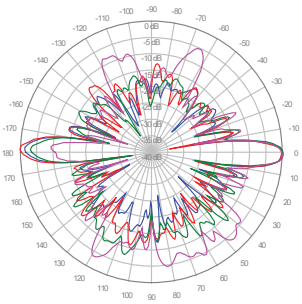
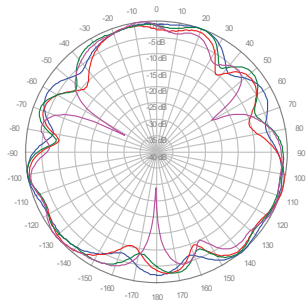

Elevation

-45°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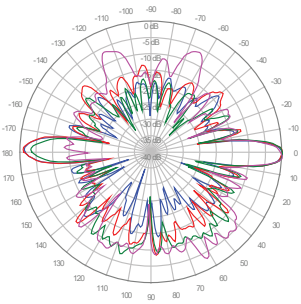
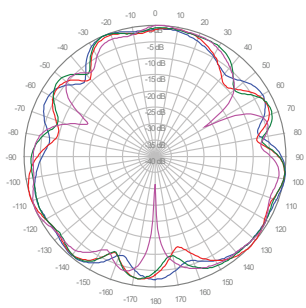

Elevation

Y2, 0° TILT

+45°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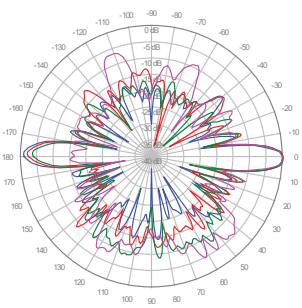
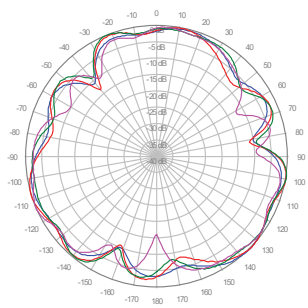

Elevation

-45°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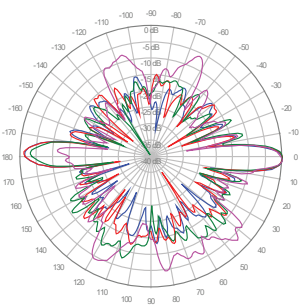
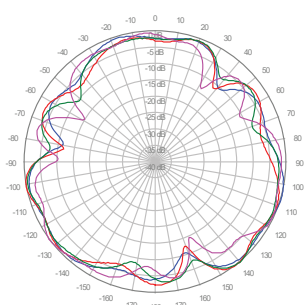

Elevation

Y1, 4° TILT

+45°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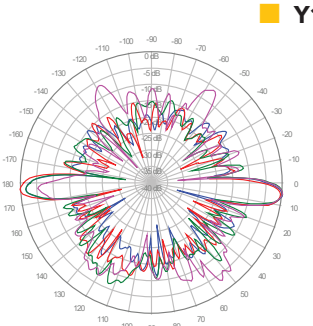
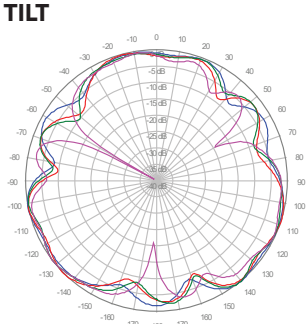

Elevation

-45°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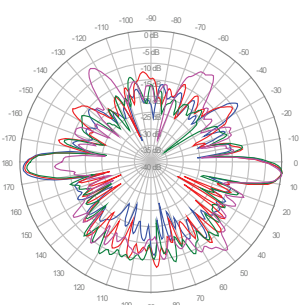
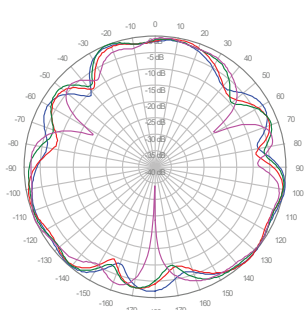

Elevation

Y2, 4° TILT

+45°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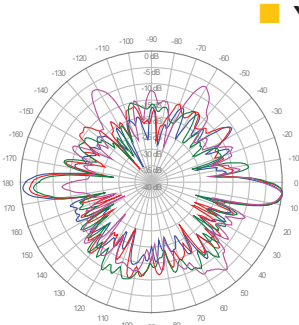
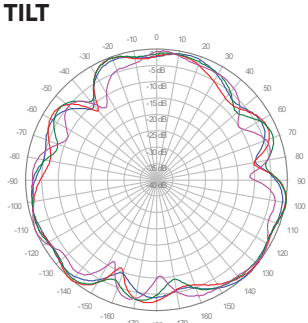

Elevation

-45°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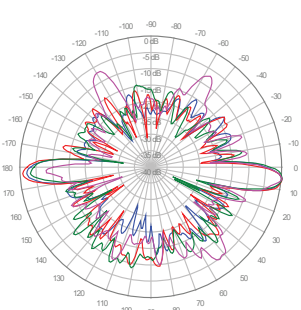
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