20-Port Canister Antenna

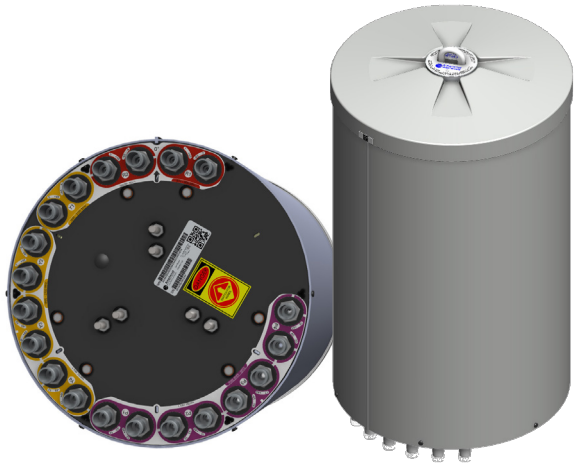
(2x) 617-897 | (4x) 1695-2700 | (4x) 3300-4200 MHz

HEART-SHAPE | 23.9 IN | FIXED TILT

2L4U4VD120X06Fwxys4

Features

- 120° heart-shape configuration with 20 connectors
- Ideal for multi-carrier or MIMO deployments
- Broadband networks 617-897, 1695-2700 and 3300-4200 MHz
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR
- Available for order with a grey, brown or black radome



PRODUCT OVERVIEW				
	Frequency Range (MHz)	(2x) 617-897	(4x) 1695-2700	(4x) 3300-4200
	Array	R1 R2	Y1 Y2 Y3 Y4	P1 P2 P3 P4
	Connector	4 PORTS	8 PORTS	8 PORTS
	Polarization	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	125°	118°	110°
	Electrical Downtilt	0°	2°, 4°, 6°	0°
	Configuration	HEART-SHAPE CONFIGURATION		
	Maximum Continuous Power Per Port @ 50° C (122° F)	100 W	80 W	60 W
	Maximum Total Continuous Power at 50° C (122° F)	1520 W		
	Connector Type	(20x) 4.3-10 FEMALE		
	Dimensions	607 x Ø371 mm (23.9 x Ø14.6 in)		
	Radome Color Options	GREY, BROWN or BLACK		

ELECTRICAL SPECIFICATIONS			R1 R2	
Frequency Range		MHz	(2x) 617-897	
Frequency Sub-Range		MHz	617-806	806-897
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	4.5 ± 0.9	4.5 ± 0.7
	MAX	dBi	5.4	5.2
Azimuth Beamwidth (3 dB)		degrees	128.7° ± 20.3°	117.7° ± 40.5°
Elevation Beamwidth (3 dB)		degrees	74.6° ± 22.9°	73° ± 22.5°
Electrical Downtilt		degrees	(w) 0°	
Impedance		Ohms	50Ω	
VSWR		---	1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153	
Upper Sidelobe Suppression		dB	N/A	
Isolation	Intraband	dB	> 25	
	Interband	dB	>28 same band; >30 different band	

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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	6.9 ± 0.8	6.9 ± 0.8	6.9 ± 0.7	7.3 ± 0.9
	MAX	dBi	7.7	7.7	7.6	8.2
Azimuth Beamwidth (3 dB)		degrees	117.4° ± 44.1°	134.1° ± 38.1°	136.3° ± 30.6°	103.8° ± 34.1°
Elevation Beamwidth (3 dB)		degrees	36.4° ± 6.7°	32.3° ± 7°	30.2° ± 7.1°	26.4° ± 6.1°
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	N/A			
Isolation	Intraband	dB	> 25			
	Interband	dB	>28 same band; >30 different band			

ELECTRICAL SPECIFICATIONS			P1	P2	P3	P4
Frequency Range		MHz	(4x) 3300-4200			
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200	
Polarization		---	(4x) ±45°			
Gain	BASTA	dBi	7.0 ± 0.8	7.3 ± 0.7	7.8 ± 0.9	
	MAX	dBi	7.8	8.0	8.7	
Azimuth Beamwidth (3 dB)		degrees	117.1° ± 34.5°	112.3° ± 35.6°	108° ± 29.2°	
Elevation Beamwidth (3 dB)		degrees	31.7° ± 8.5°	28.5° ± 8.7°	25.9° ± 6.7°	
Electrical Downtilt		degrees	(y) 0°			
Impedance		Ohms	50Ω			
VSWR		---	1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153			
Upper Sidelobe Suppression		dB	N/A			
Isolation	Intraband	dB	> 25			
	Interband	dB	>28 same band; >30 different band			

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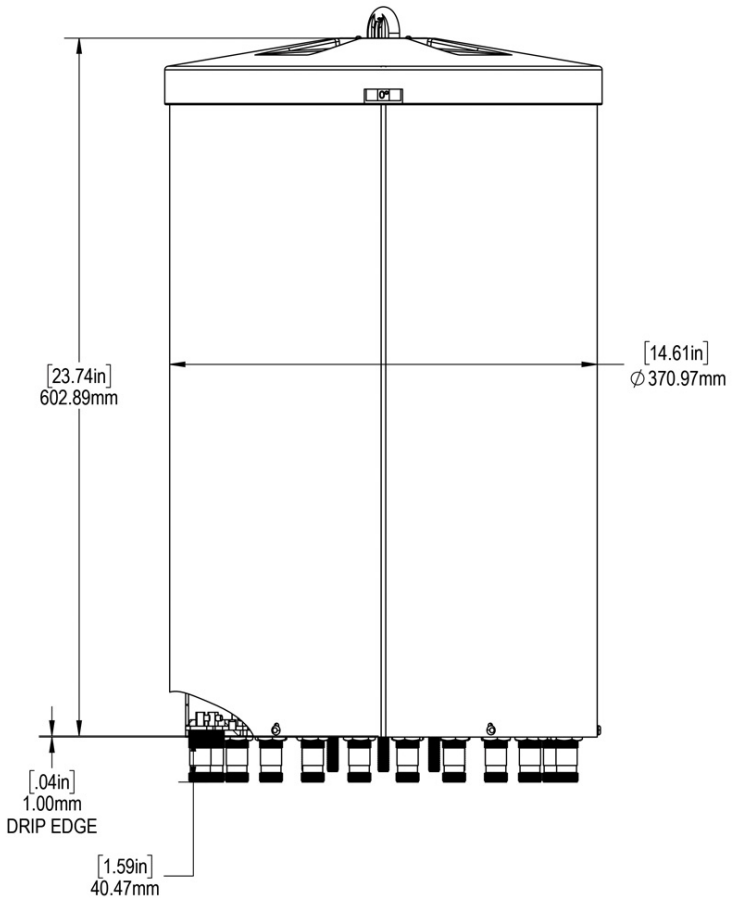
MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	607 (23.9)
	Diameter		mm (in)	371 (14.6)
Net Weight - Antenna Only			kg (lbs)	12.7 (28)
Windload		Calculation	km/h (mph)	160 (100)
		Frontal	N (lbf)	191 (43)
Survival Wind Speed			km/h (mph)	241 (150)
Wind Area			m^2 (ft^2)	0.22 (2.4)
Volume			m^3 (ft^3)	0.07 (2.3)
Connector		Type	---	(20x) 4.3-10 Female
		Position	---	Bottom
Radome Color			---	Grey (RAL 7035), Brown (RAL 8022), Black (RAL 9011)
Lightning Protection (Grounding Type)			---	Direct Ground



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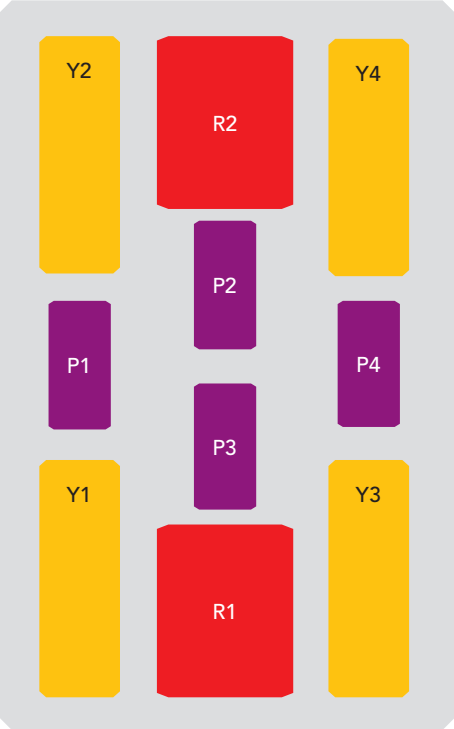
ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
617-897 MHz	R1	1-2	(2x) 4.3-10 Female
617-897 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
1695-2700 MHz	Y3	9-10	(2x) 4.3-10 Female
1695-2700 MHz	Y4	11-12	(2x) 4.3-10 Female
3300-4200 MHz	P1	13-14	(2x) 4.3-10 Female
3300-4200 MHz	P2	15-16	(2x) 4.3-10 Female
3300-4200 MHz	P3	17-18	(2x) 4.3-10 Female
3300-4200 MHz	P4	19-20	(2x) 4.3-10 Female



The illustration is not shown to scale.

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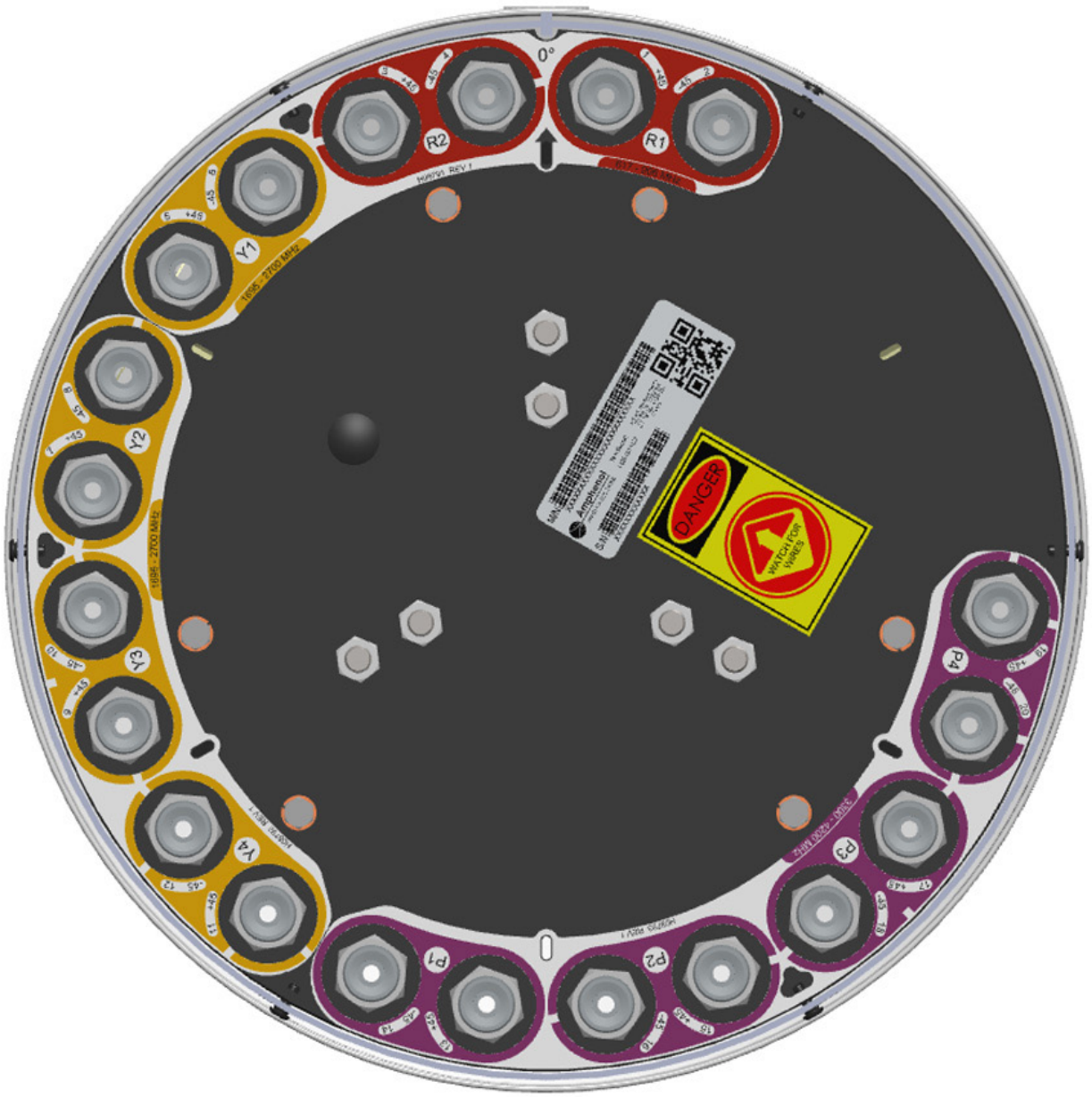
BOTTOM VIEW - LABELING



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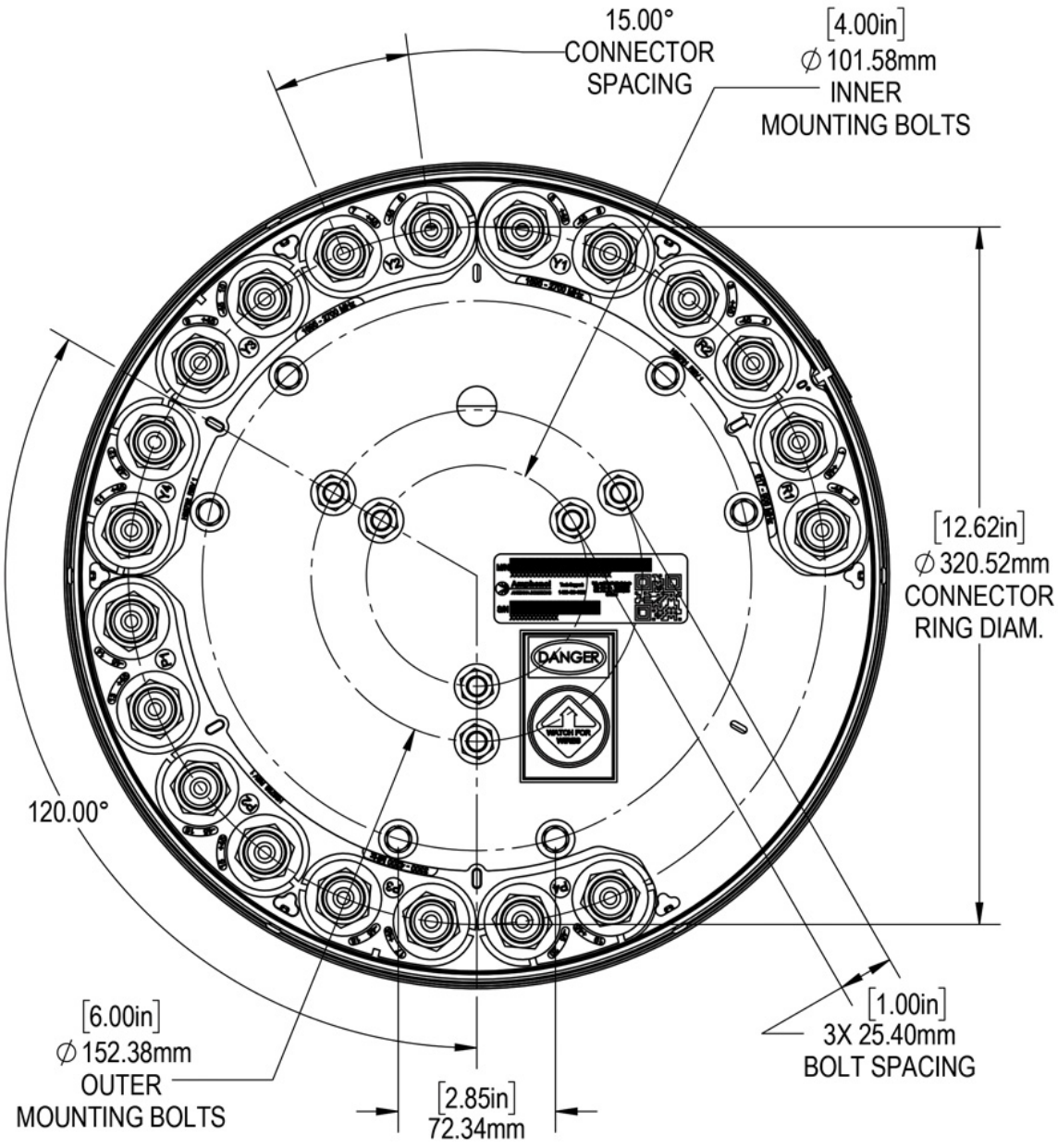
BOTTOM VIEW - CONNECTOR DIAGRAM



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
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
2L	4U	4V	D	120	X	06	F	wxy	s	4	BK BR
(2x) 617-897	(4x) 1695-2700	(4x) 3300-4200	Dual Sector	~120° Heart-Shape	XPOL	0.6 meters	Fixed Tilt	These letters are placeholders for fixed tilt options. Refer to Electrical Specifications for available tilt options.	4.3-10 Connector	4th generation enhanced mechanical package	BK indicates a Black radome. BR indicates a Brown radome. The default radome color is Grey. No letters are required for a Grey radome.

ORDERING OPTIONS Select from the following ordering options

SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			MODEL NUMBER
	617-897 MHz	1695-2700 MHz	3300-4200 MHz	
Grey RAL 7035	0°	2°	0°	2L4U4VD120X06F020s4
	0°	4°	0°	2L4U4VD120X06F040s4
	0°	6°	0°	2L4U4VD120X06F060s4
Brown RAL 8022	0°	2°	0°	2L4U4VD120X06F020s4BR
	0°	4°	0°	2L4U4VD120X06F040s4BR
	0°	6°	0°	2L4U4VD120X06F060s4BR
Black RAL 9011	0°	2°	0°	2L4U4VD120X06F020s4BK
	0°	4°	0°	2L4U4VD120X06F040s4BK
	0°	6°	0°	2L4U4VD120X06F060s4BK

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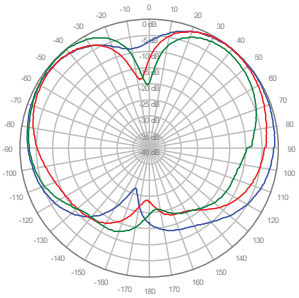
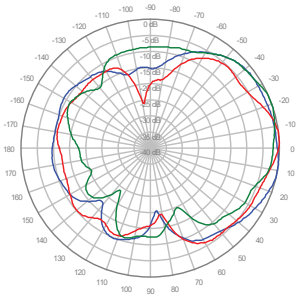
650 MHz
750 MHz
850 MHz

R1, 0° TILT

+45°

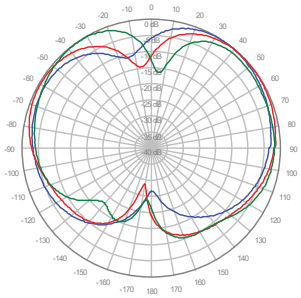


Azimuth



Elevation

-45°



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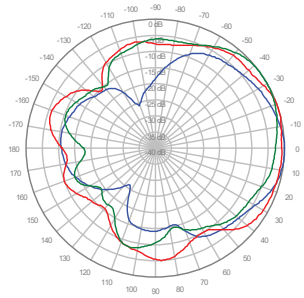
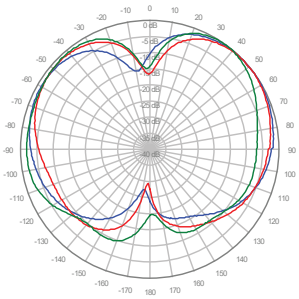


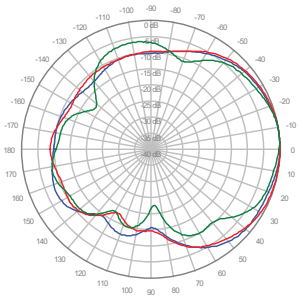
Elevation

R2, 0° TILT

+45°

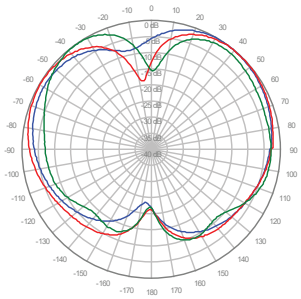


Azimuth



Elevation

-45°



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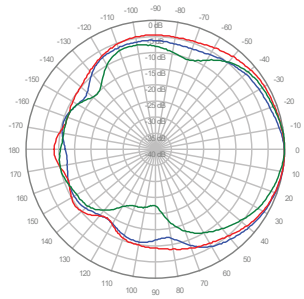


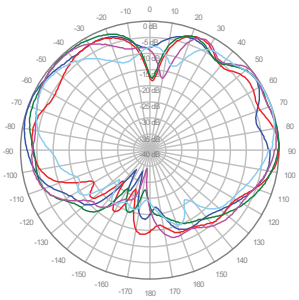
Elevation

2L4U4VD120X06Fwxys4

1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 2° TILT

+45°



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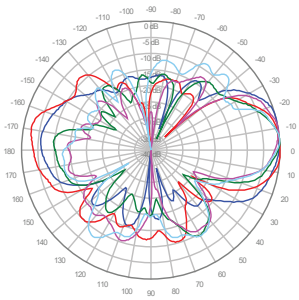
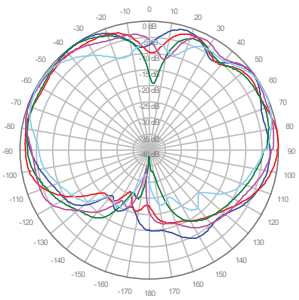


Elevation

-45°



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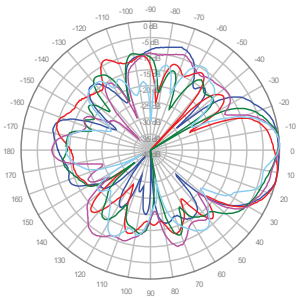
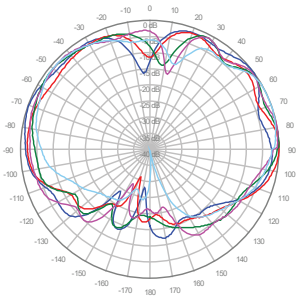


Elevation

Y2, 2° TILT

+45°



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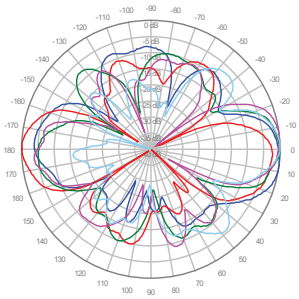
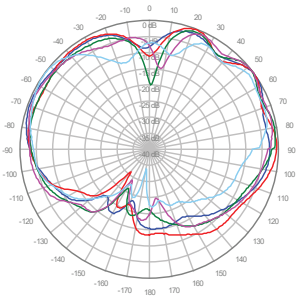


Elevation

-45°



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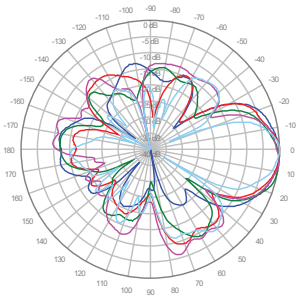
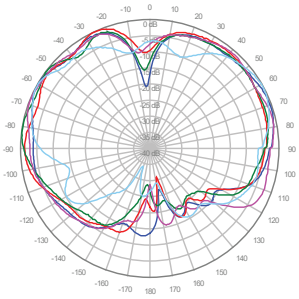


Elevation

Y3, 2° TILT

+45°



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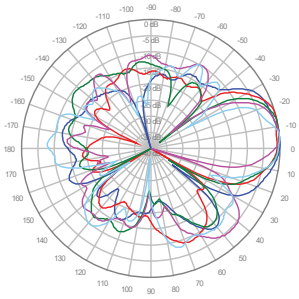
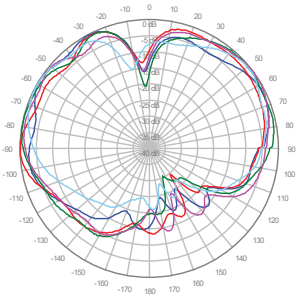


Elevation

-45°



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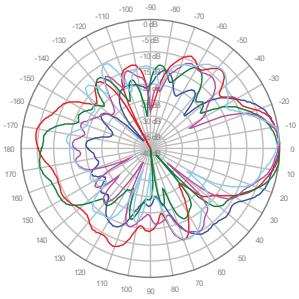
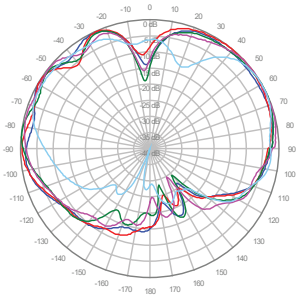


Elevation

Y4, 2° TILT

+45°



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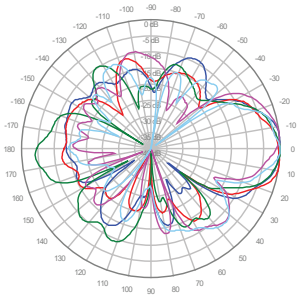
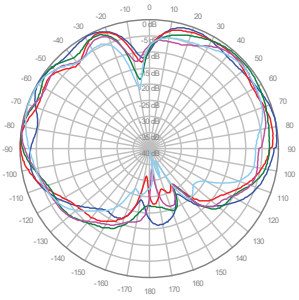


Elevation

-45°



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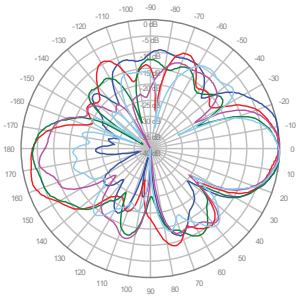

Elevation

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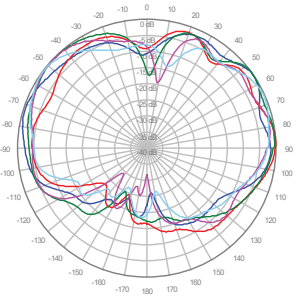
2L4U4VD120X06Fwxys4

1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 4° TILT

+45°



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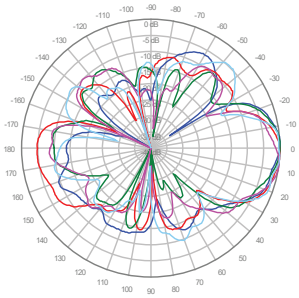
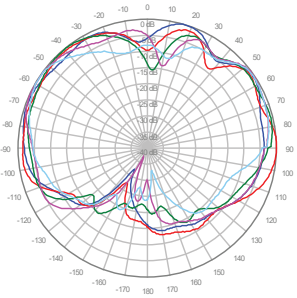
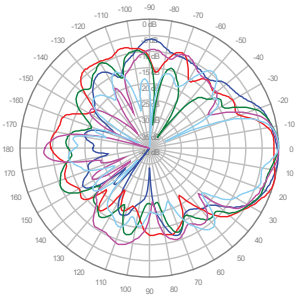


Elevation

-45°



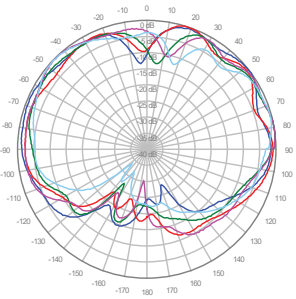
Azimuth



Elevation

Y2, 4° TILT

+45°



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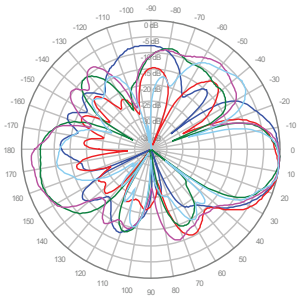
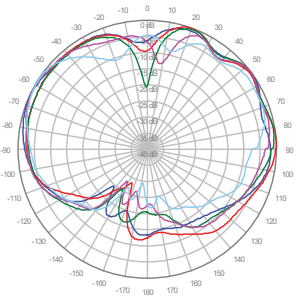
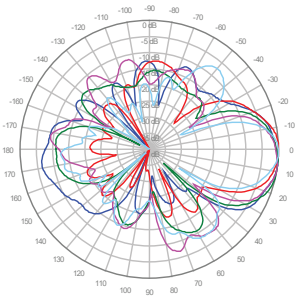


Elevation

-45°



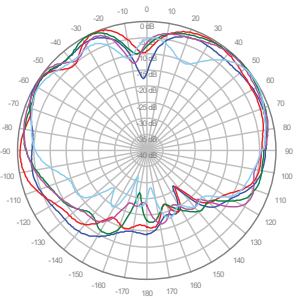
Azimuth



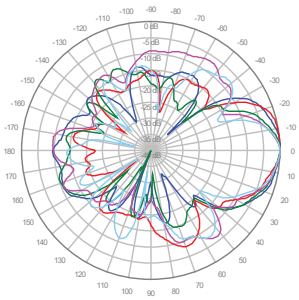
Elevation

Y3, 4° TILT

+45°

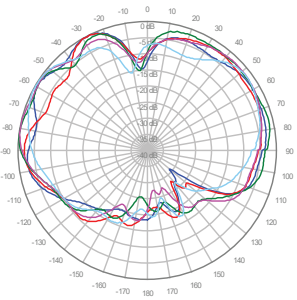


Azimuth

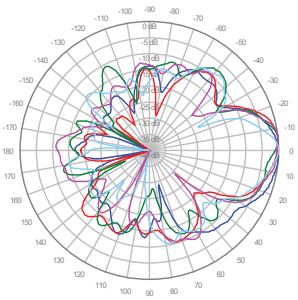


Elevation

-45°



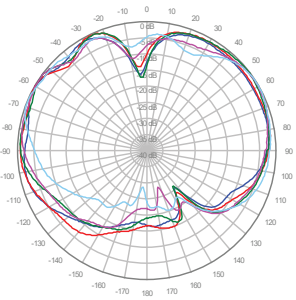
Azimuth



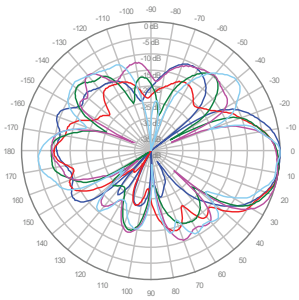
Elevation

Y4, 4° TILT

+45°

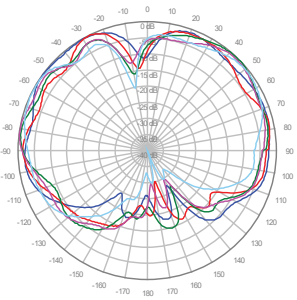


Azimuth

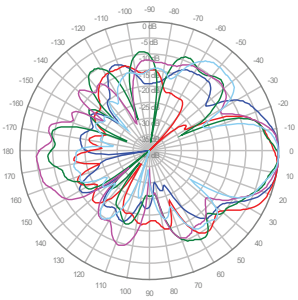


Elevation

-45°



Azimuth



Elevation

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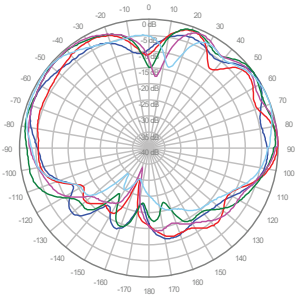
2L4U4VD120X06Fwxys4

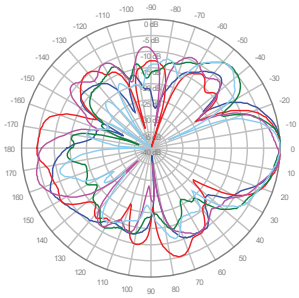
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 6° TILT

+45°

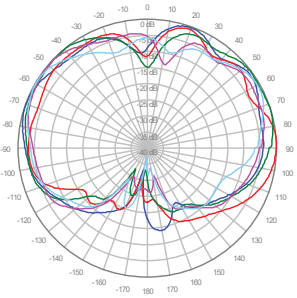


Azimuth

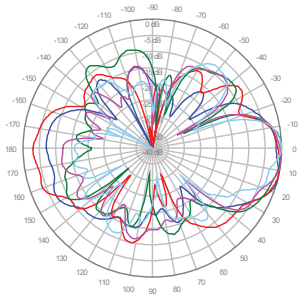


Elevation

-45°



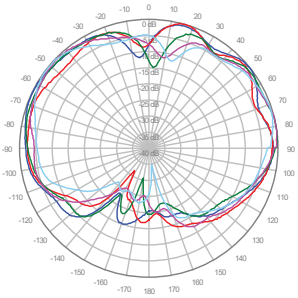
Azimuth



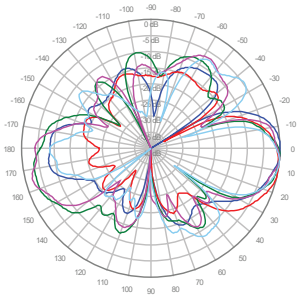
Elevation

Y2, 6° TILT

+45°

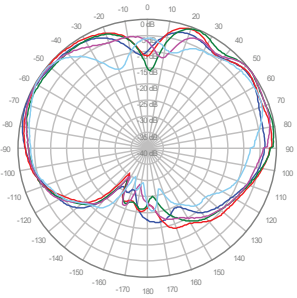


Azimuth

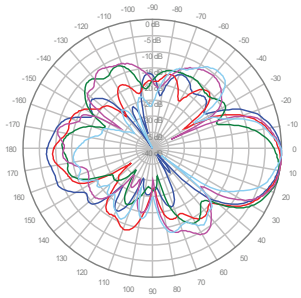


Elevation

-45°



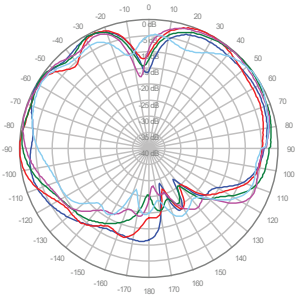
Azimuth



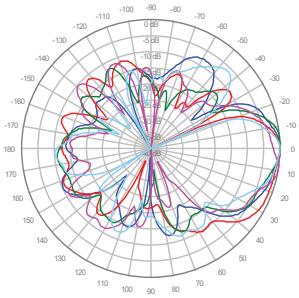
Elevation

Y3, 6° TILT

+45°

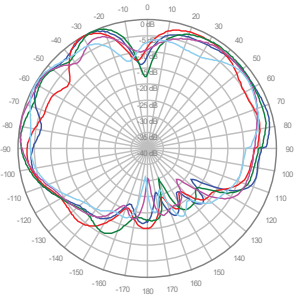


Azimuth

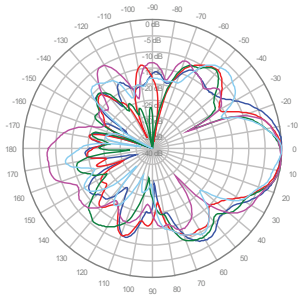


Elevation

-45°



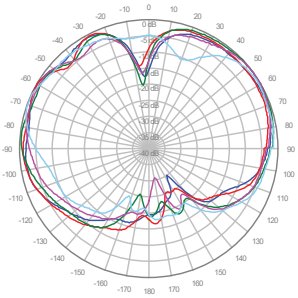
Azimuth



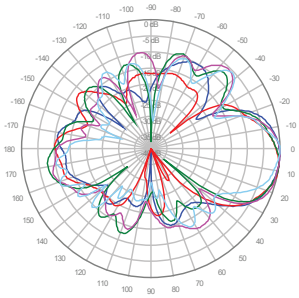
Elevation

Y4, 6° TILT

+45°

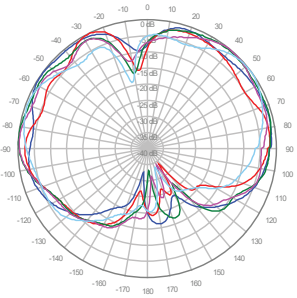


Azimuth

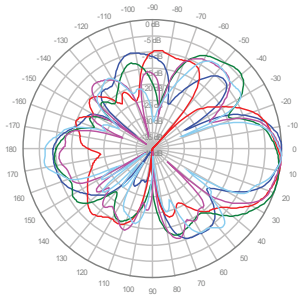


Elevation

-45°



Azimuth



Elevation

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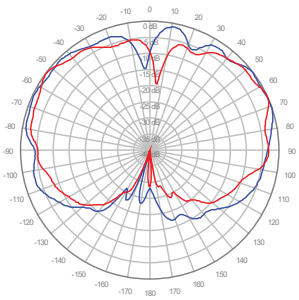
2L4U4VD120X06Fwxys4

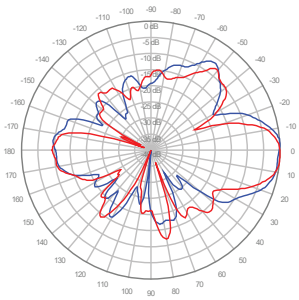
3600 MHz
4000 MHz

P1, 0° TILT

+45°

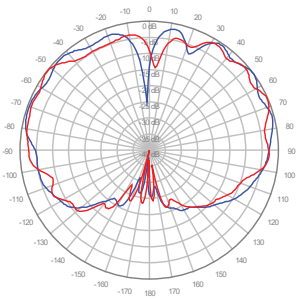


Azimuth

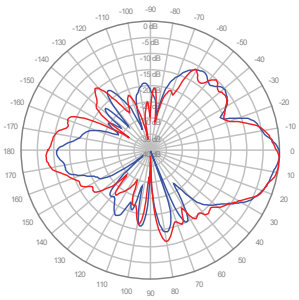


Elevation

-45°



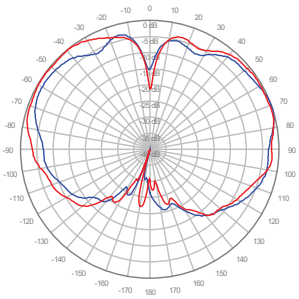
Azimuth



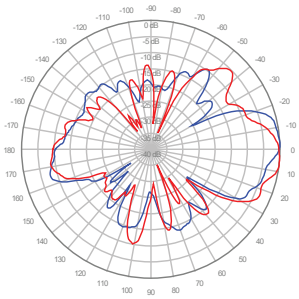
Elevation

P2, 0° TILT

+45°

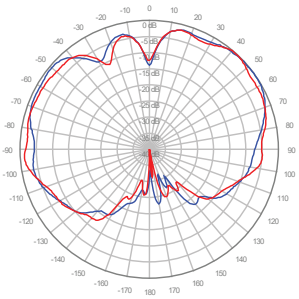


Azimuth

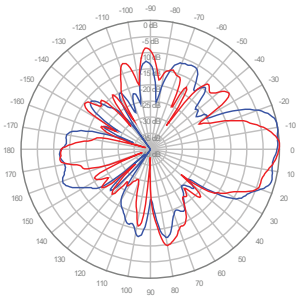


Elevation

-45°



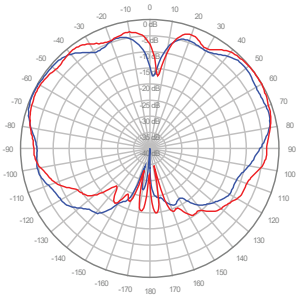
Azimuth



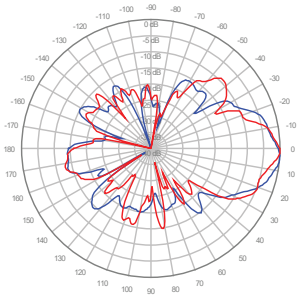
Elevation

P3, 0° TILT

+45°

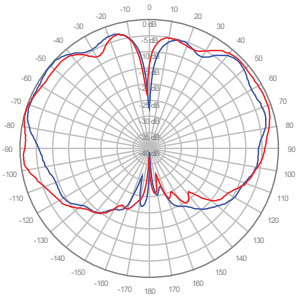


Azimuth

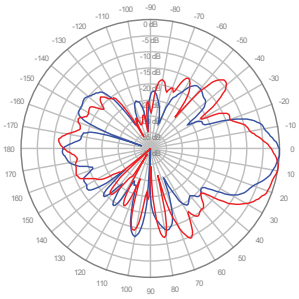


Elevation

-45°



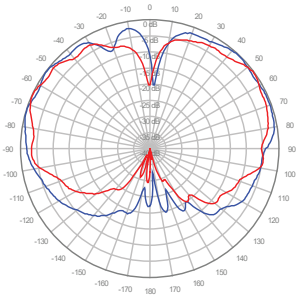
Azimuth



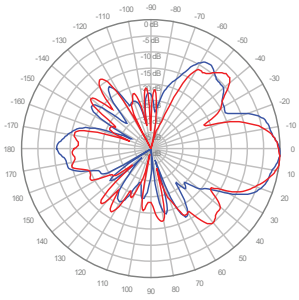
Elevation

P4, 0° TILT

+45°

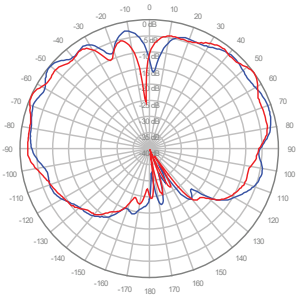


Azimuth

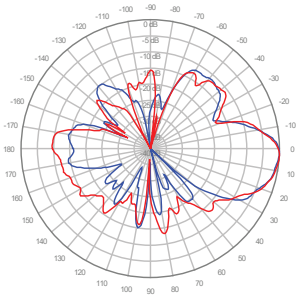


Elevation

-45°



Azimuth



Elevation

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