20-Port Canister Antenna

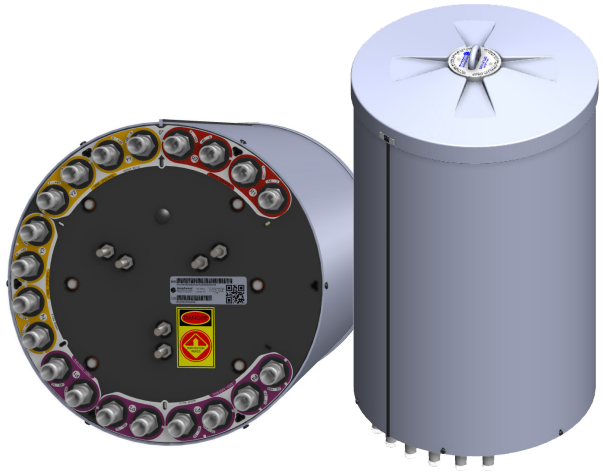
(2x) 617-897 | (4x) 1695-2700 | (4x) 3300-4200 MHz

PEANUT-SHAPE | 23.9 IN | FIXED TILT

2L4U4VB180X06Fwxys4

Features

- 180° peanut-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)	88°	57.9°	60.6°
	Electrical Downtilt	0°	2°, 4°, 6°	0°
	Configuration	PEANUT-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	4.1 ± 0.8	4.7 ± 0.9
	MAX	dBi	4.9	5.6
Azimuth Beamwidth (3 dB)		degrees	97.1° ± 19.9°	70.3° ± 22.7°
Elevation Beamwidth (3 dB)		degrees	79° ± 20.8°	71.9° ± 31°
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	

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.

2L4U4VB180X06Fwxys4

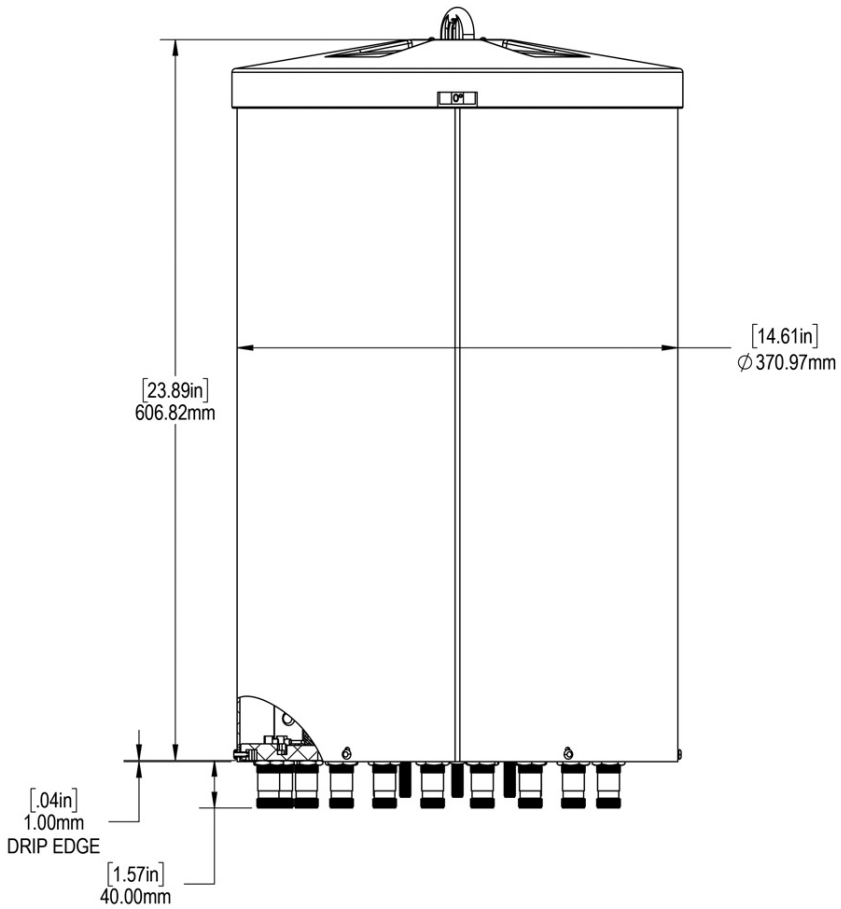
ELECTRICAL SPECIFICATIONS			Y1	Y2	Y3	Y4
Frequency Range		MHz	(4x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(4x) ±45°			
Gain	BASTA	dBi	6.8 ± 1.0	6.7 ± 0.9	6.7 ± 1.0	7.5 ± 1.0
	MAX	dBi	7.8	7.6	7.7	8.5
Azimuth Beamwidth (3 dB)		degrees	57.9° ± 18.4°	59.5° ± 22.4°	59.2° ± 19.4°	52.6° ± 12°
Elevation Beamwidth (3 dB)		degrees	33.5° ± 9.3°	36.8° ± 8.5°	34.2° ± 9°	28.6° ± 5.3°
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 ± 1.0	7.6 ± 1.2	7.7 ± 1.0	
	MAX	dBi	8.0	8.8	8.7	
Azimuth Beamwidth (3 dB)		degrees	68.7° ± 17.8°	64.7° ± 21.2°	58.7° ± 22.2°	
Elevation Beamwidth (3 dB)		degrees	32.1° ± 8.3°	27° ± 5.9°	26.5° ± 7.1°	
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			

2L4U4VB180X06Fwxys4

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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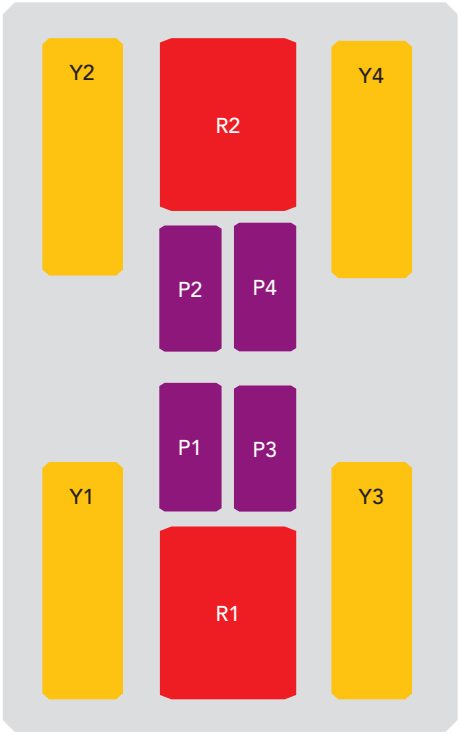
2L4U4VB180X06Fwxys4

ARRAY LAYOUT Topology

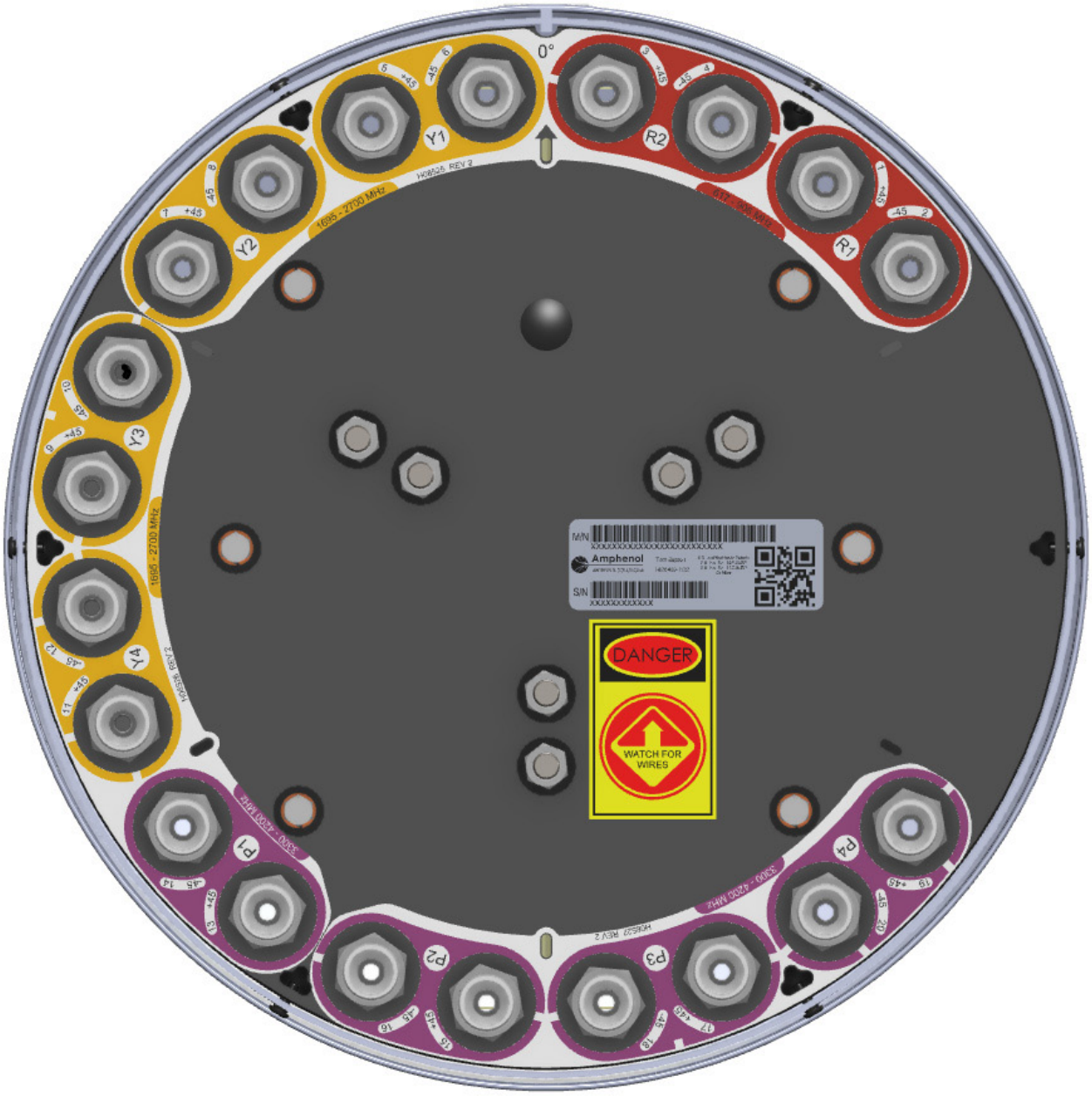
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
617-897 MHz	R1	1-2	(2x) 4.3-10 Female
617-897 MHz	R2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	Y1	5-6	(2x) 4.3-10 Female
1695-2700 MHz	Y2	7-8	(2x) 4.3-10 Female
1695-2700 MHz	Y3	9-10	(2x) 4.3-10 Female
1695-2700 MHz	Y4	11-12	(2x) 4.3-10 Female
3300-4200 MHz	P1	13-14	(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.

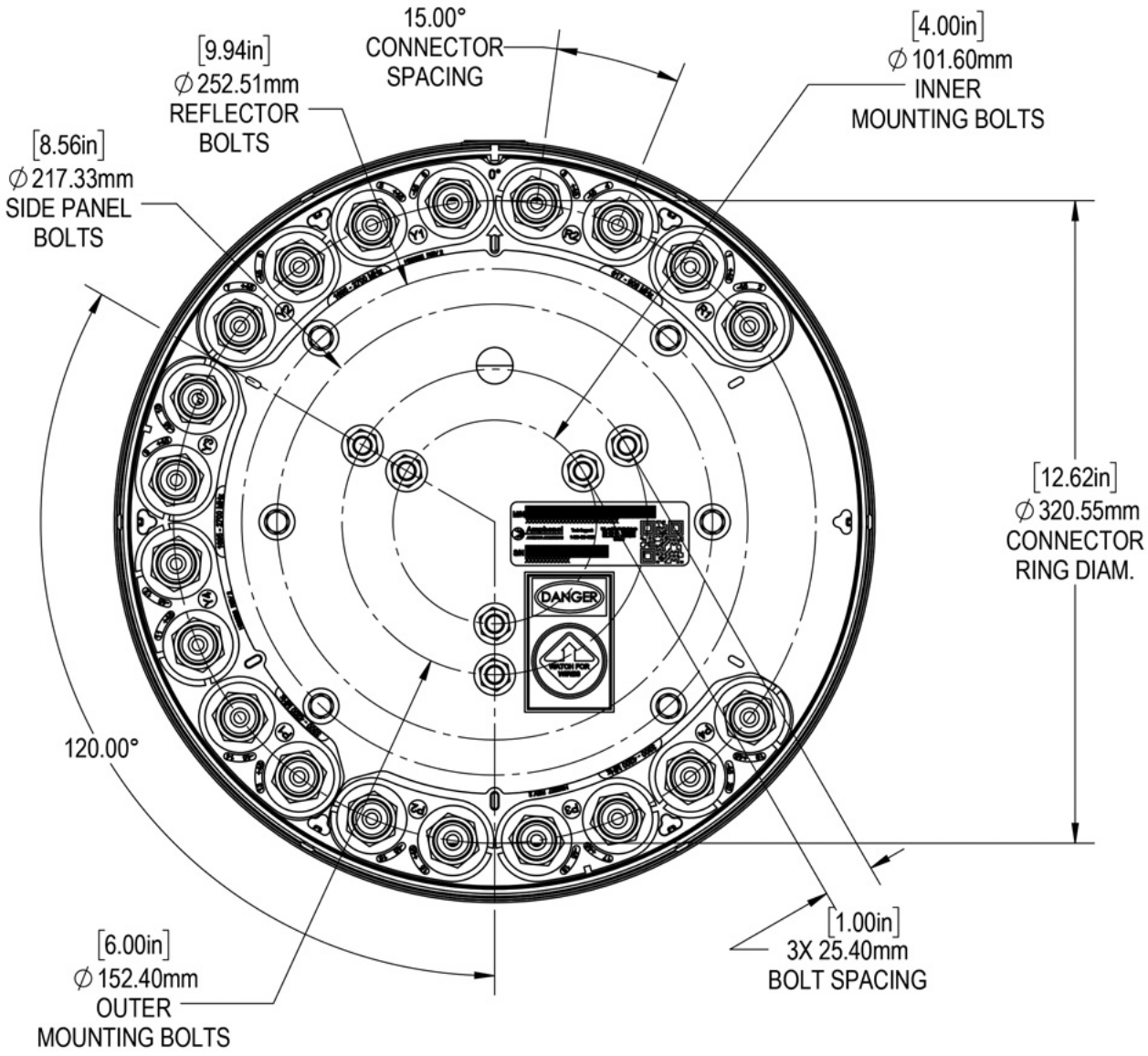
2L4U4VB180X06Fwxys4

BOTTOM VIEW - LABELING



2L4U4VB180X06Fwxys4

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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2L4U4VB180X06Fwxys4

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.

2L4U4VB180X06Fwxys4

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	B	180	X	06	F	wxy	s	4	BK BR
(2x) 617-897	(4x) 1695-2700	(4x) 3300-4200	Back-to-Back Sector	~180° PEANUT-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

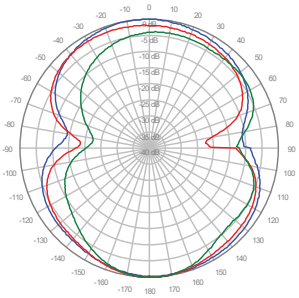
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			MODEL NUMBER
	617-897 MHz	1695-2700 MHz	3300-4200 MHz	
Grey RAL 7035	0°	2°	0°	2L4U4VB180X06F020s4
	0°	4°	0°	2L4U4VB180X06F040s4
	0°	6°	0°	2L4U4VB180X06F060s4
Brown RAL 8022	0°	2°	0°	2L4U4VB180X06F020s4BR
	0°	4°	0°	2L4U4VB180X06F040s4BR
	0°	6°	0°	2L4U4VB180X06F060s4BR
Black RAL 9011	0°	2°	0°	2L4U4VB180X06F020s4BK
	0°	4°	0°	2L4U4VB180X06F040s4BK
	0°	6°	0°	2L4U4VB180X06F060s4BK

2L4U4VB180X06Fwxys4

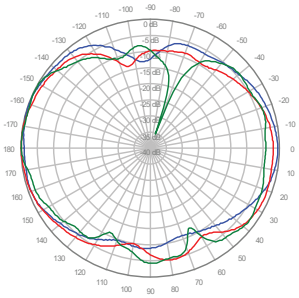
650 MHz
750 MHz
850 MHz

R1, 0° TILT

+45°

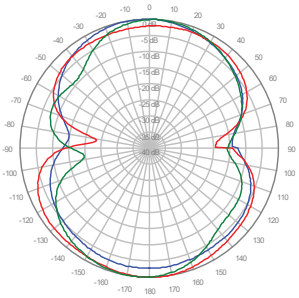


Azimuth



Elevation

-45°



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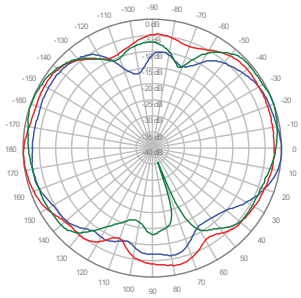
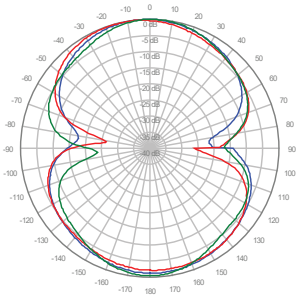


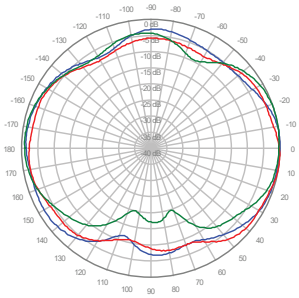
Elevation

R2, 0° TILT

+45°

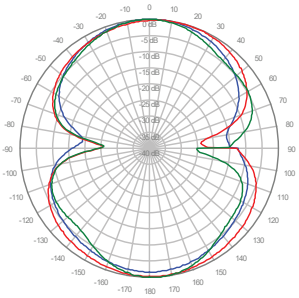


Azimuth

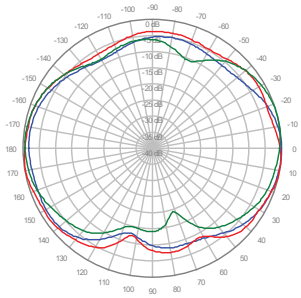


Elevation

-45°



Azimuth



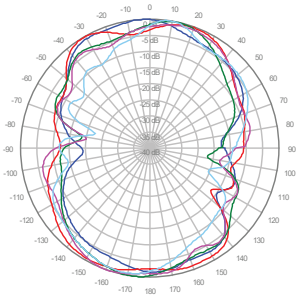
Elevation

2L4U4VB180X06Fwxys4

1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 2° TILT

+45°



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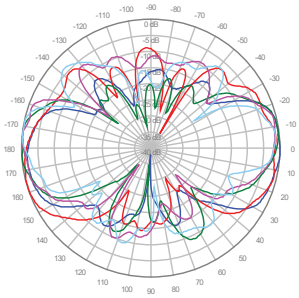
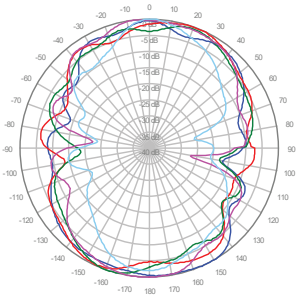


Elevation

-45°



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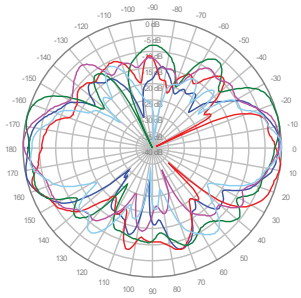
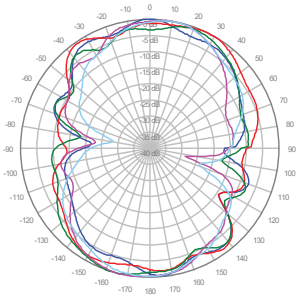


Elevation

Y2, 2° TILT

+45°



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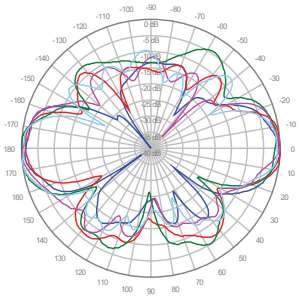
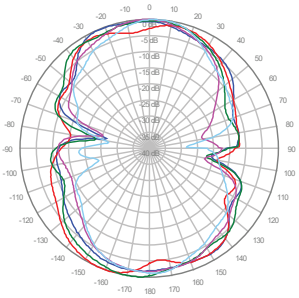


Elevation

-45°



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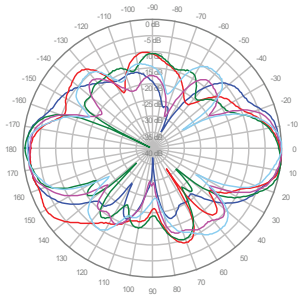
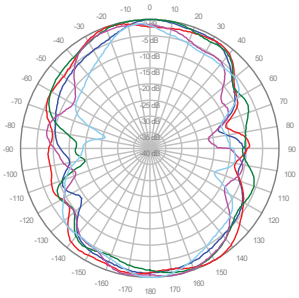


Elevation

Y3, 2° TILT

+45°



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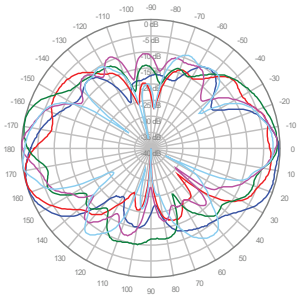
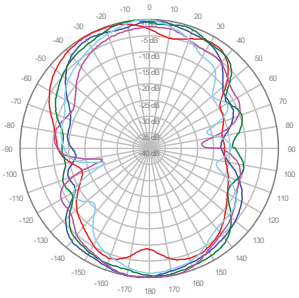


Elevation

-45°



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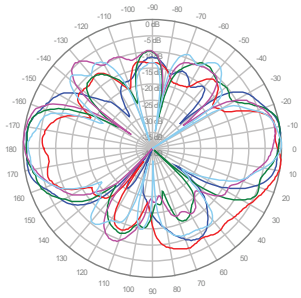
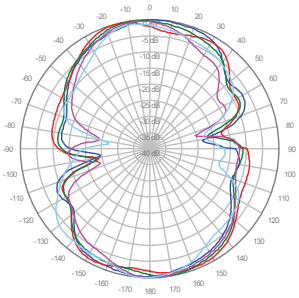


Elevation

Y4, 2° TILT

+45°



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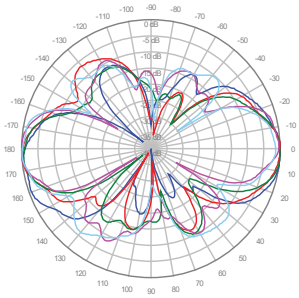
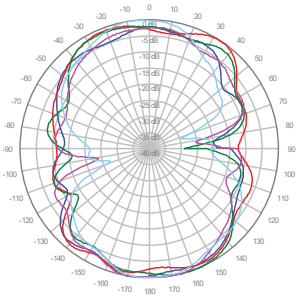


Elevation

-45°



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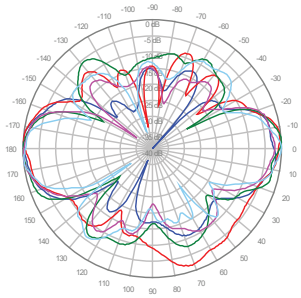

Elevation

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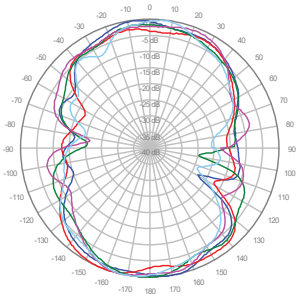
2L4U4VB180X06Fwxys4

1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 4° TILT

+45°



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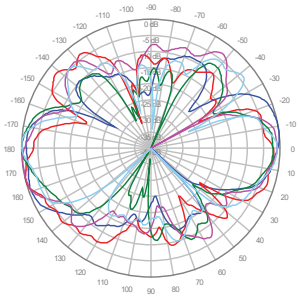
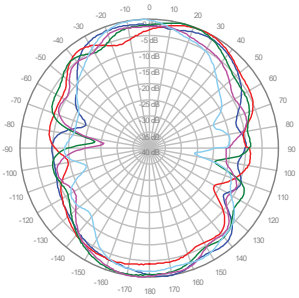


Elevation

-45°



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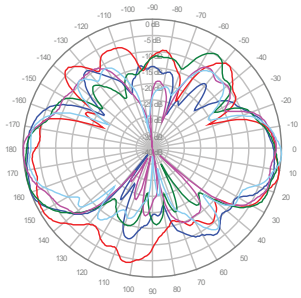
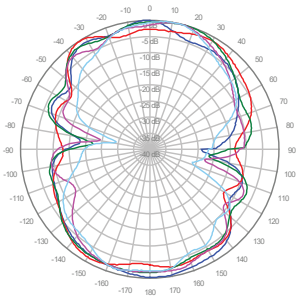


Elevation

Y2, 4° TILT

+45°



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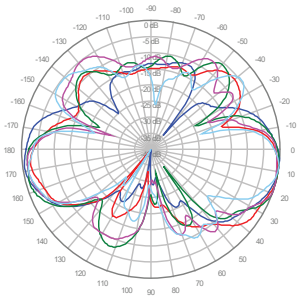
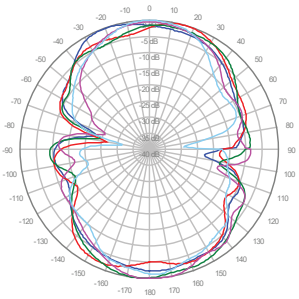
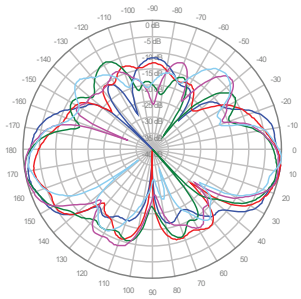


Elevation

-45°



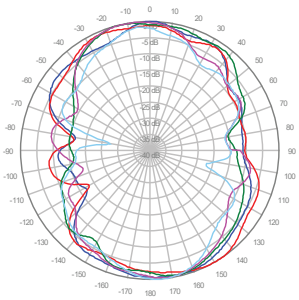
Azimuth



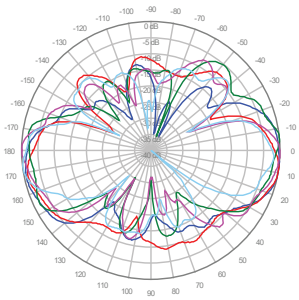
Elevation

Y3, 4° TILT

+45°

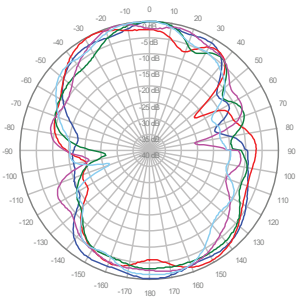


Azimuth

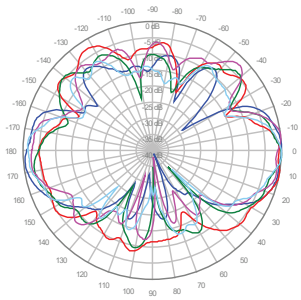


Elevation

-45°



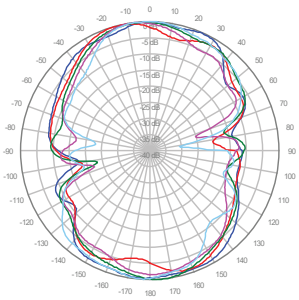
Azimuth



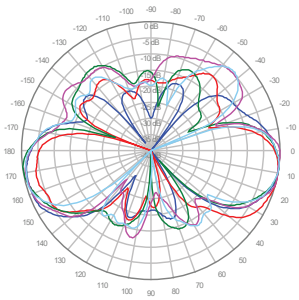
Elevation

Y4, 4° TILT

+45°

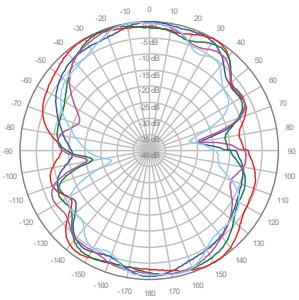


Azimuth

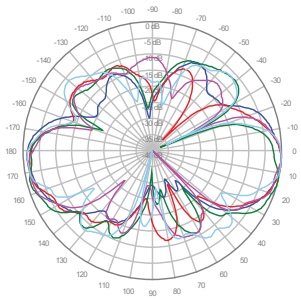


Elevation

-45°



Azimuth



Elevation

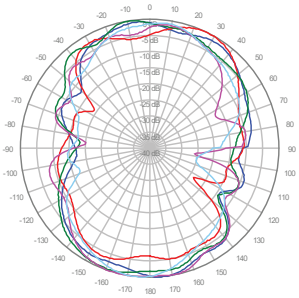
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

2L4U4VB180X06Fwxys4

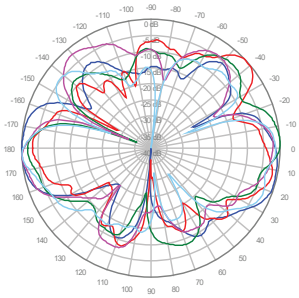
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 6° TILT

+45°

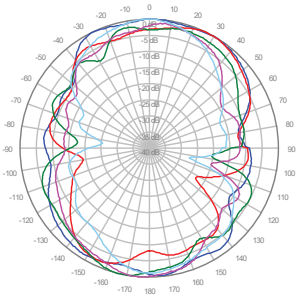


Azimuth

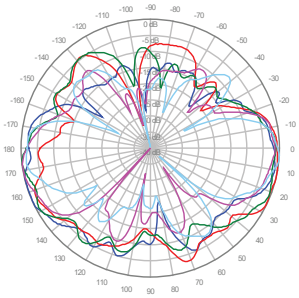


Elevation

-45°



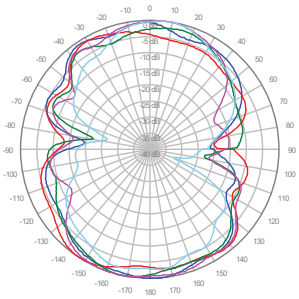
Azimuth



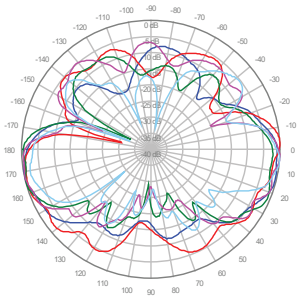
Elevation

Y2, 6° TILT

+45°

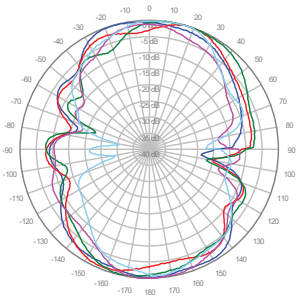


Azimuth

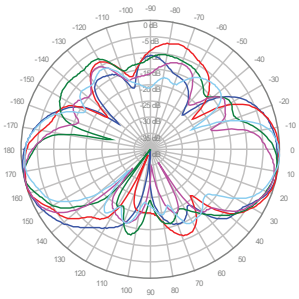


Elevation

-45°



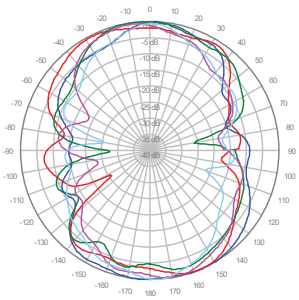
Azimuth



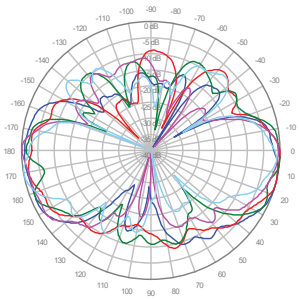
Elevation

Y3, 6° TILT

+45°

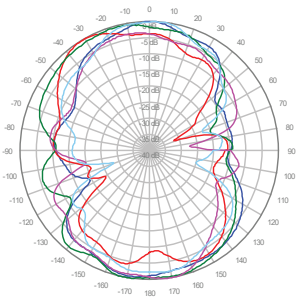


Azimuth

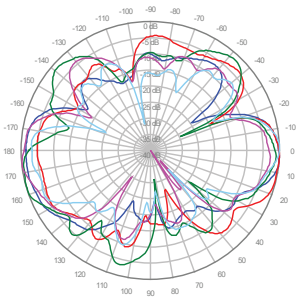


Elevation

-45°



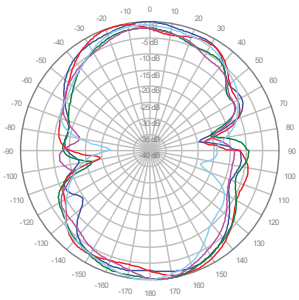
Azimuth



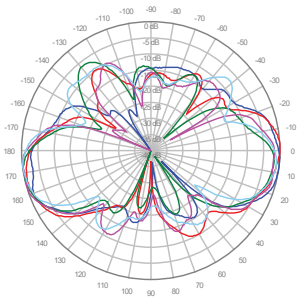
Elevation

Y4, 6° TILT

+45°

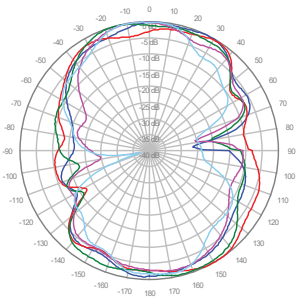


Azimuth

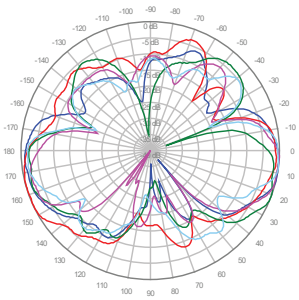


Elevation

-45°



Azimuth



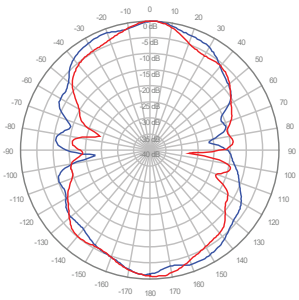
Elevation

2L4U4VB180X06Fwxys4

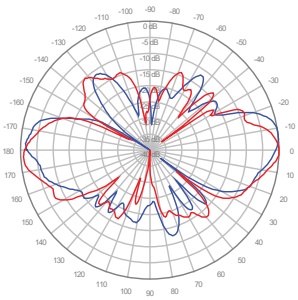
3600 MHz
4000 MHz

P1, 0° TILT

+45°

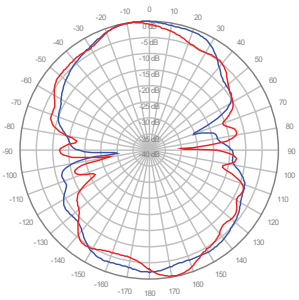


Azimuth

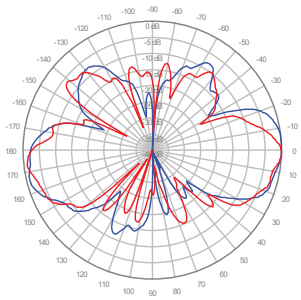


Elevation

-45°



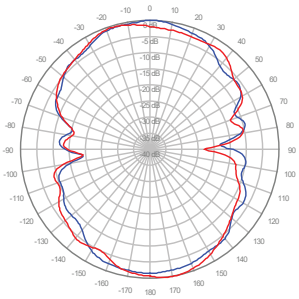
Azimuth



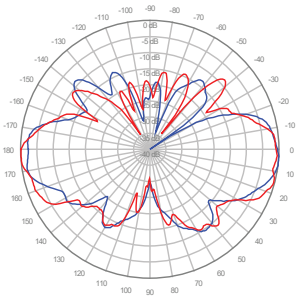
Elevation

P2, 0° TILT

+45°

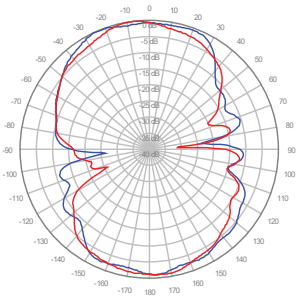


Azimuth

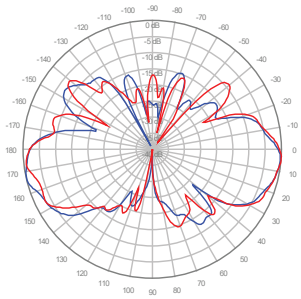


Elevation

-45°



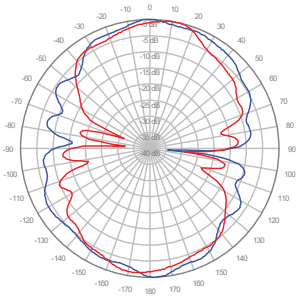
Azimuth



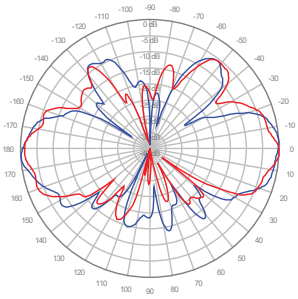
Elevation

P3, 0° TILT

+45°

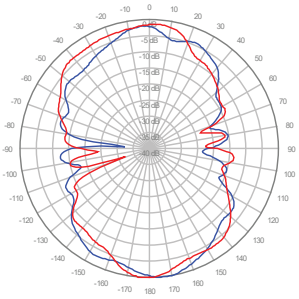


Azimuth

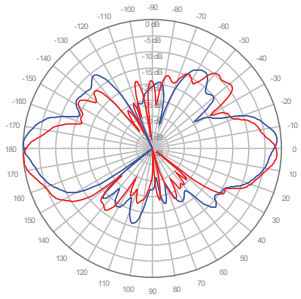


Elevation

-45°



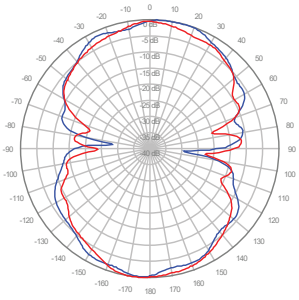
Azimuth



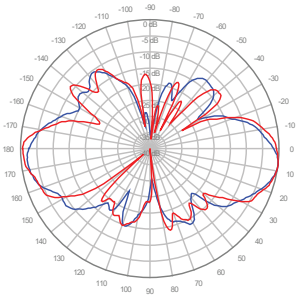
Elevation

P4, 0° TILT

+45°

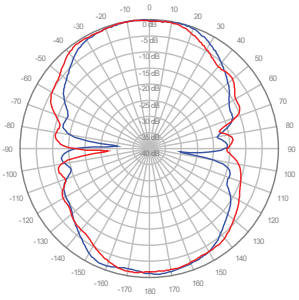


Azimuth

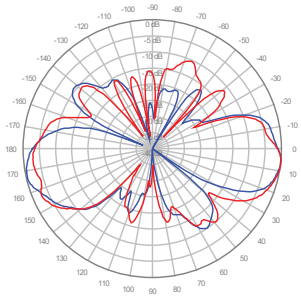


Elevation

-45°



Azimuth



Elevation