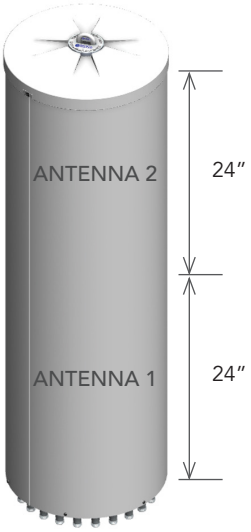
32-Port Canister Antenna

(4x) 617-906 | (6x) 1695-2700 | (6x) 3300-4200 MHz

OMNI | 47.4 IN | FIXED TILT

4L6U6VT360X12Fwxys5



Features

- Pseudo omni configuration with 32 connectors
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 617-906, 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)	(4x) 617-906	(6x) 1695-2700	(6x) 3300-4200
	Array	R1 R2 R3 R4	Y1 Y2 Y3 Y4 Y5 Y6	P1 P2 P3 P4 P5 P6
	Connector	8 PORTS	12 PORTS	12 PORTS
	Polarization	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°	360°
	Electrical Downtilt	0°	2°, 4°, 6°	2°, 4°, 6°
	Configuration	OMNI CONFIGURATION		
	Maximum Continuous Power Per Port @ 50° C (122° F)	500 WATTS	300 WATTS	100 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	8800 WATTS		
	Connector Type	(32x) 4.3-10 FEMALE		
	Dimensions	1203 x Ø371 mm (47.4 x Ø14.6 in)		
	Radome Color Options	GREY, BROWN or BLACK		

ELECTRICAL SPECIFICATIONS

R1 R2 R3 R4

Frequency Range		MHz	(4x) 617-906	
Frequency Sub-Range		MHz	617-806	806-906
Polarization		---	(4x) ±45°	
Gain	BASTA	dBi	4.8 ± 0.9	4.7 ± 1.1
	MAX	dBi	5.7	5.8
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	58.3° ± 16.3°	48.8° ± 14.1°
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	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.

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ELECTRICAL SPECIFICATIONS — Y1 Y2 Y3 Y4 Y5 Y6

Frequency Range		MHz	(6x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(6x) ±45°			
Gain	BASTA	dBi	7.6 ± 0.8	7.5 ± 0.7	7.4 ± 0.9	7.9 ± 0.9
	MAX	dBi	8.4	8.2	8.3	8.8
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	23.0° ± 3.2°	20.8° ± 2.7°	19.0° ± 3.5°	16.9° ± 2.6°
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	N/A			
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28 same band; > 30 different band			

ELECTRICAL SPECIFICATIONS — P1 P2 P3 P4 P5 P6

Frequency Range		MHz	(6x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(6x) ±45°		
Gain	BASTA	dBi	8.1 ± 1.0	8.7 ± 0.9	9.1 ± 0.8
	MAX	dBi	9.1	9.6	9.9
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	16.9° ± 1.6°	16.5° ± 1.7°	16.3° ± 2.1°
Electrical Downtilt		degrees	(y) 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		

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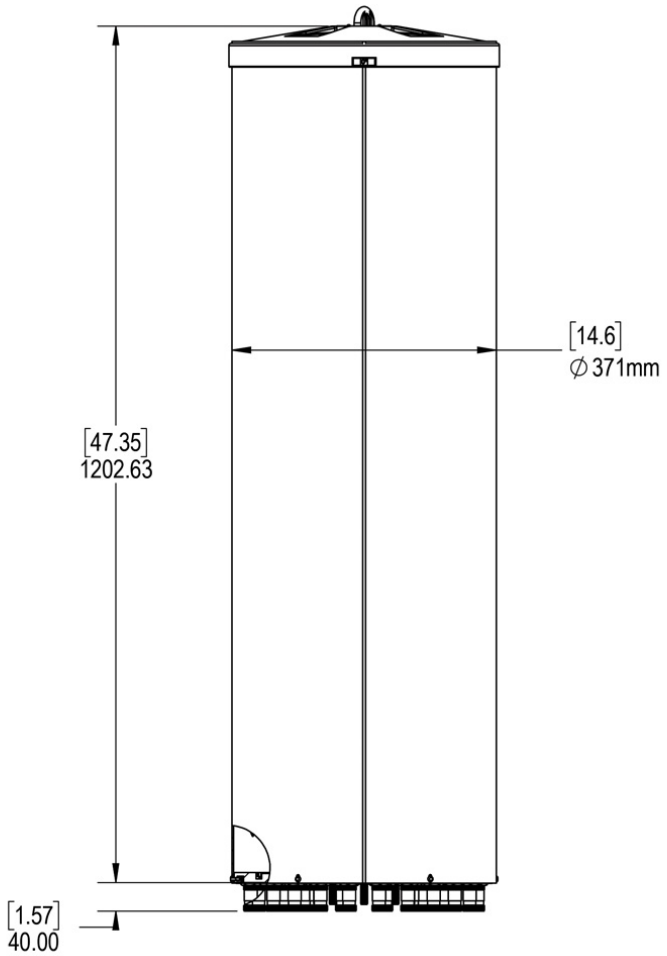
MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	1203 (47.4)
	Diameter		mm (in)	371 (14.6)
Net Weight - Antenna Only			kg (lbs)	20.9 (46.0)
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	---	(32x) 4.3-10 Female
		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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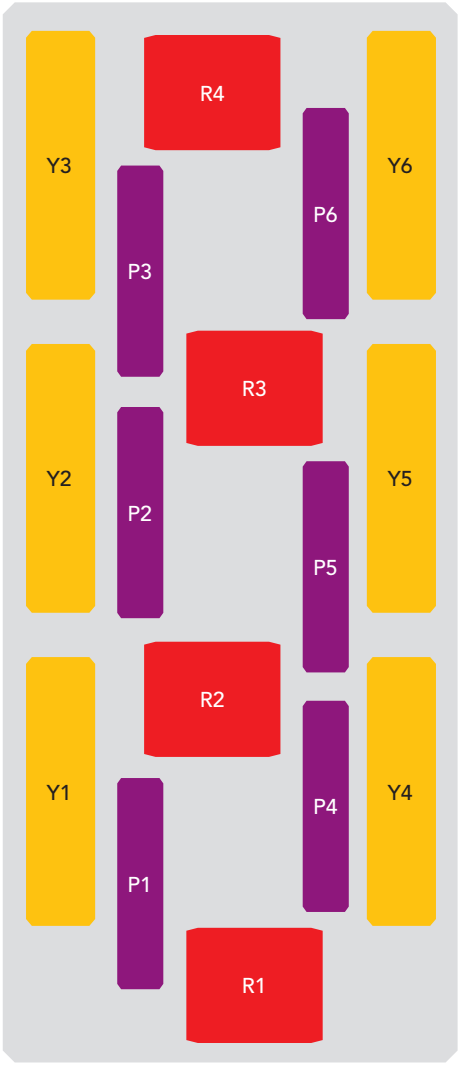
ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
617-906 MHz	R1	25-26	(2x) 4.3-10 Female
617-906 MHz	R2	27-28	(2x) 4.3-10 Female
617-906 MHz	R3	29-30	(2x) 4.3-10 Female
617-906 MHz	R4	31-32	(2x) 4.3-10 Female
1695-2700 MHz	Y1	1-2	(2x) 4.3-10 Female
1695-2700 MHz	Y2	5-6	(2x) 4.3-10 Female
1695-2700 MHz	Y3	9-10	(2x) 4.3-10 Female
1695-2700 MHz	Y4	13-14	(2x) 4.3-10 Female
1695-2700 MHz	Y5	17-18	(2x) 4.3-10 Female
1695-2700 MHz	Y6	21-22	(2x) 4.3-10 Female
3300-4200 MHz	P1	3-4	(2x) 4.3-10 Female
3300-4200 MHz	P2	7-8	(2x) 4.3-10 Female
3300-4200 MHz	P3	11-12	(2x) 4.3-10 Female
3300-4200 MHz	P4	15-16	(2x) 4.3-10 Female
3300-4200 MHz	P5	19-20	(2x) 4.3-10 Female
3300-4200 MHz	P6	23-24	(2x) 4.3-10 Female



The illustration is not shown to scale.

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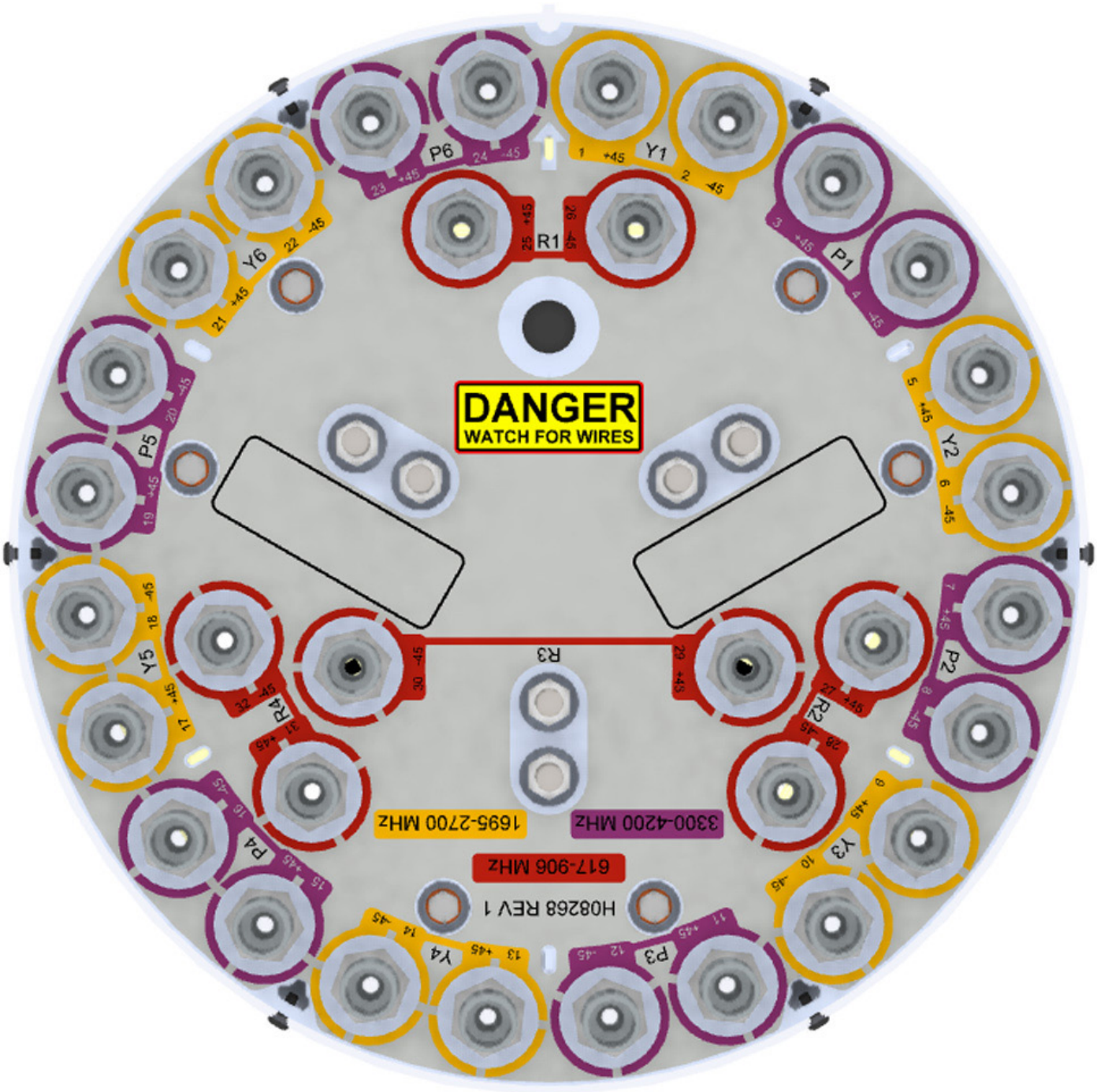
BOTTOM VIEW - LABELING



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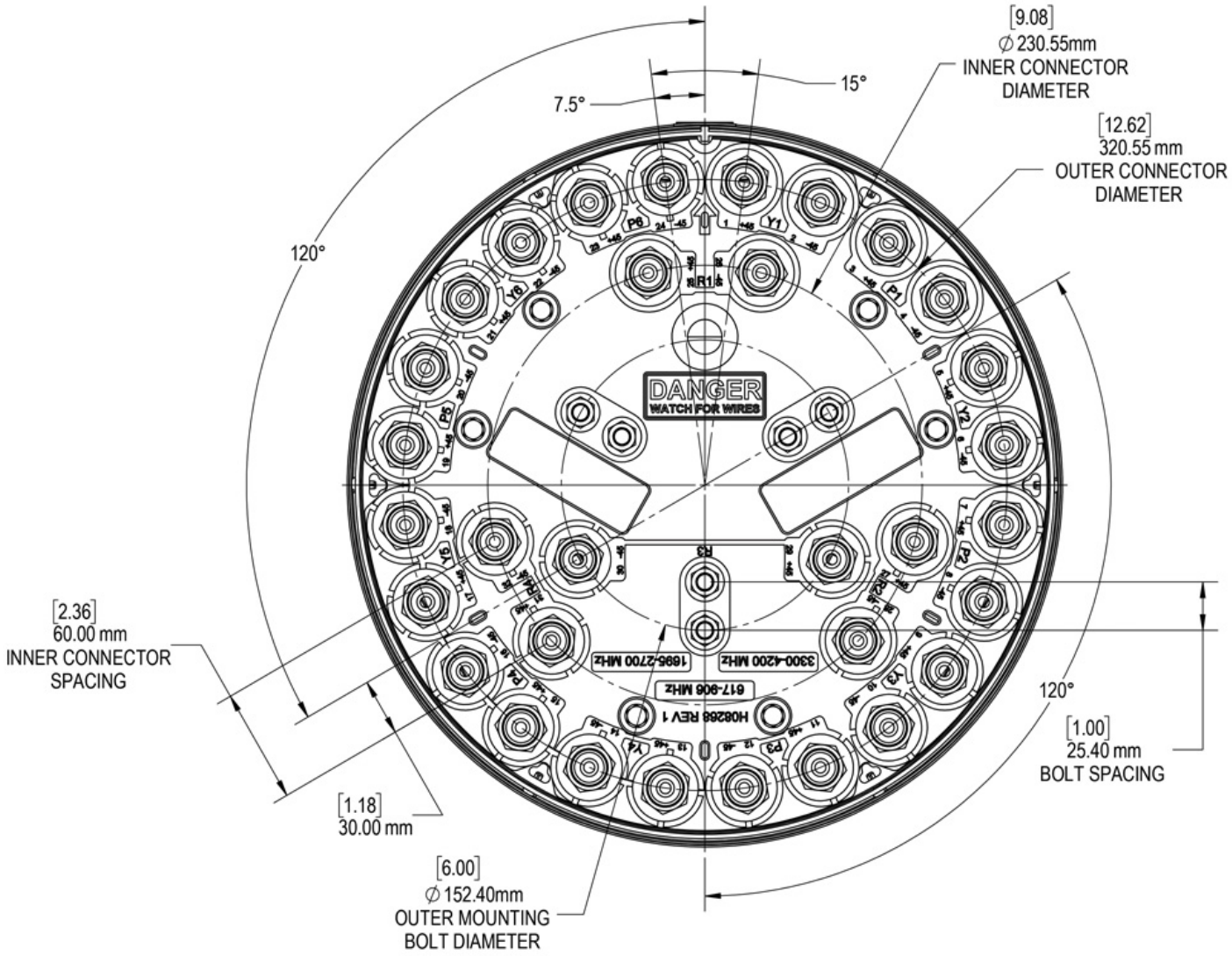
BOTTOM VIEW - CONNECTOR DIAGRAM



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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 & OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA-TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
4L	6U	6V	T	360	X	12	F	wxy	s	5	BK BR
(4x) 617-906	(6x) 1695-2700	(6x) 3300-4200	Tri-Sector	360°	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	Variations of similar antennas may exist. Please refer to data sheets for specific differences.	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			ANTENNA MODEL
	617-906 MHz	1695-2700 MHz	3300-4200 MHz	
Grey Pantone 420 C	0°	2°	2°	4L6U6VT360X12F022s5
	0°	2°	4°	4L6U6VT360X12F024s5
	0°	2°	6°	4L6U6VT360X12F026s5
	0°	4°	2°	4L6U6VT360X12F042s5
	0°	4°	4°	4L6U6VT360X12F044s5
	0°	4°	6°	4L6U6VT360X12F046s5
	0°	6°	2°	4L6U6VT360X12F062s5
	0°	6°	4°	4L6U6VT360X12F064s5
	0°	6°	6°	4L6U6VT360X12F066s5
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	4L6U6VT360X12F0A2s5
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	4L6U6VT360X12F0B2s5
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	4L6U6VT360X12F0C2s5
Brown Pantone 476 C	0°	2°	2°	4L6U6VT360X12F022s5BR
	0°	2°	4°	4L6U6VT360X12F024s5BR
	0°	2°	6°	4L6U6VT360X12F026s5BR
	0°	4°	2°	4L6U6VT360X12F042s5BR
	0°	4°	4°	4L6U6VT360X12F044s5BR
	0°	4°	6°	4L6U6VT360X12F046s5BR
	0°	6°	2°	4L6U6VT360X12F062s5BR
	0°	6°	4°	4L6U6VT360X12F064s5BR
	0°	6°	6°	4L6U6VT360X12F066s5BR
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	4L6U6VT360X12F0A2s5BR
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	4L6U6VT360X12F0B2s5BR
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	4L6U6VT360X12F0C2s5BR
Black RAL 9011	0°	2°	2°	4L6U6VT360X12F022s5BK
	0°	2°	4°	4L6U6VT360X12F024s5BK
	0°	2°	6°	4L6U6VT360X12F026s5BK
	0°	4°	2°	4L6U6VT360X12F042s5BK
	0°	4°	4°	4L6U6VT360X12F044s5BK
	0°	4°	6°	4L6U6VT360X12F046s5BK
	0°	6°	2°	4L6U6VT360X12F062s5BK
	0°	6°	4°	4L6U6VT360X12F064s5BK
	0°	6°	6°	4L6U6VT360X12F066s5BK
	0°	Y1 & Y2 = 6°; Y3-Y6 = 2°	2°	4L6U6VT360X12F0A2s5BK
	0°	Y1 & Y2 = 4°; Y3-Y6 = 2°	2°	4L6U6VT360X12F0B2s5BK
	0°	Y1 & Y2 = 6°; Y3-Y6 = 4°	2°	4L6U6VT360X12F0C2s5BK

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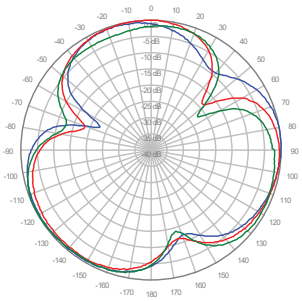
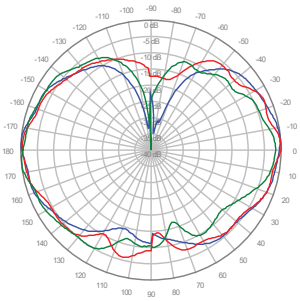
650 MHz
750 MHz
850 MHz

R1, 0° TILT

+45°

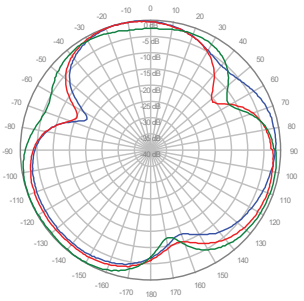


Azimuth



Elevation

-45°



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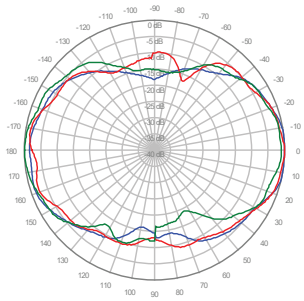
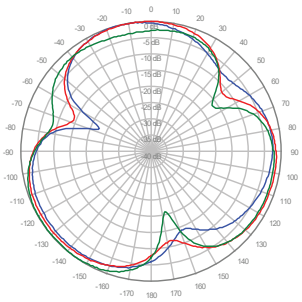


Elevation

R2, 0° TILT

+45°



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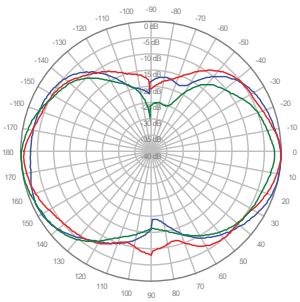
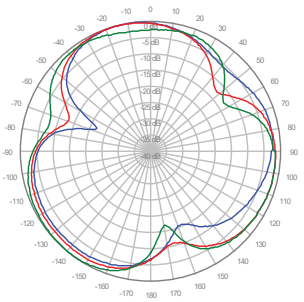


Elevation

-45°



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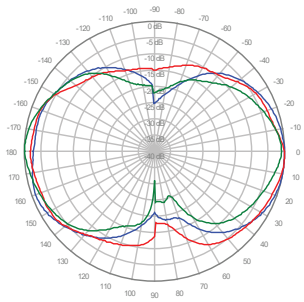
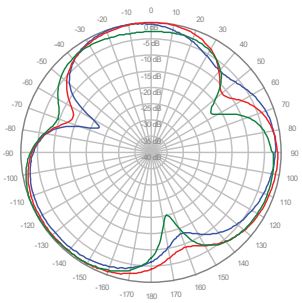


Elevation

R3, 0° TILT

+45°



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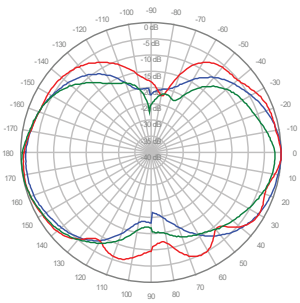
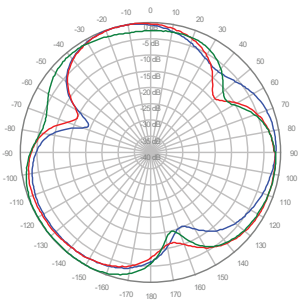


Elevation

-45°



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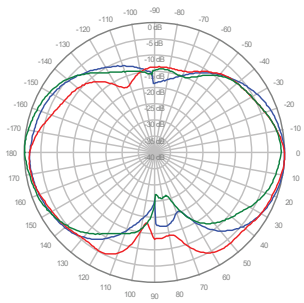
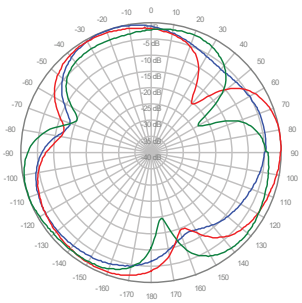


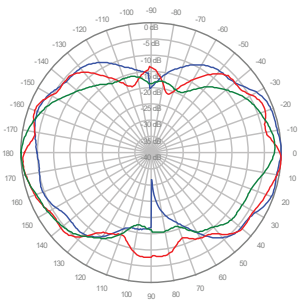
Elevation

R4, 0° TILT

+45°

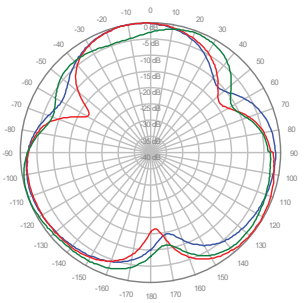


Azimuth

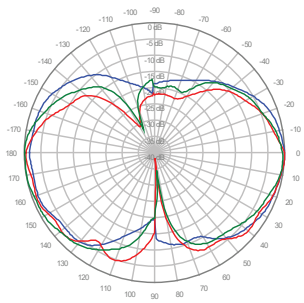


Elevation

-45°



Azimuth



Elevation

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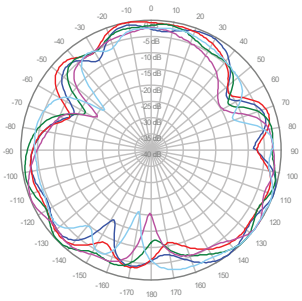
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 2° TILT

+45°



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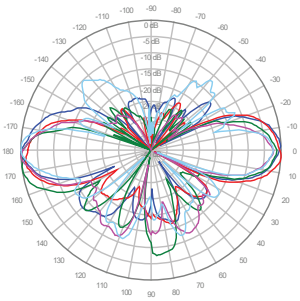
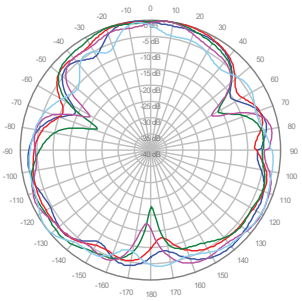
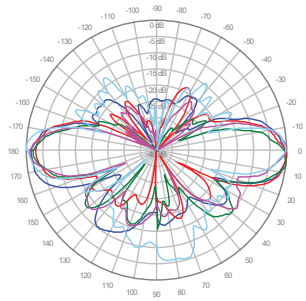


Elevation

-45°



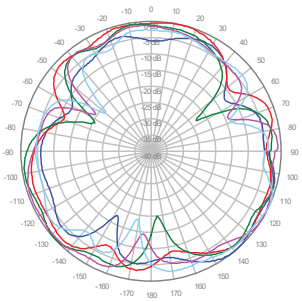
Azimuth



Elevation

Y2, 2° TILT

+45°



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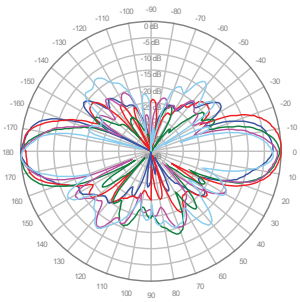
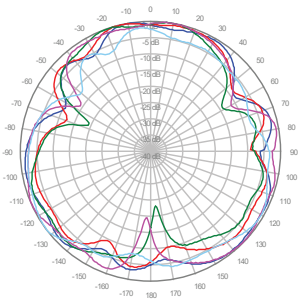
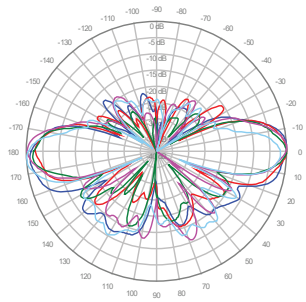


Elevation

-45°



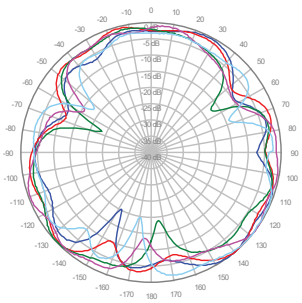
Azimuth



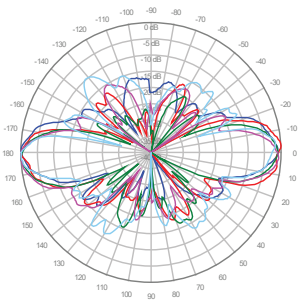
Elevation

Y3, 2° TILT

+45°

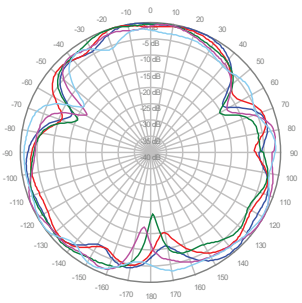


Azimuth

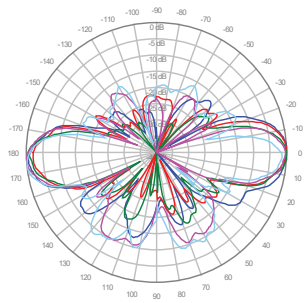


Elevation

-45°



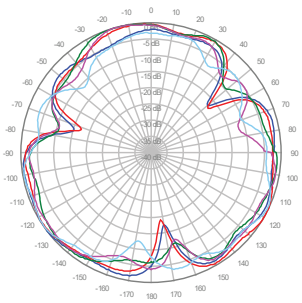
Azimuth



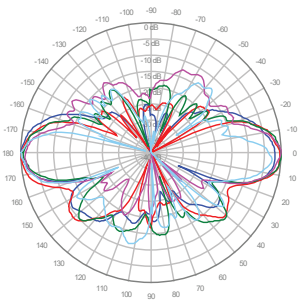
Elevation

Y4, 2° TILT

+45°

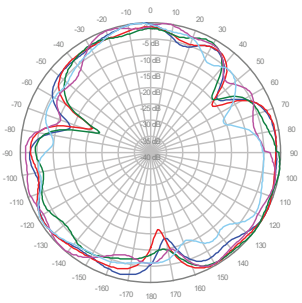


Azimuth

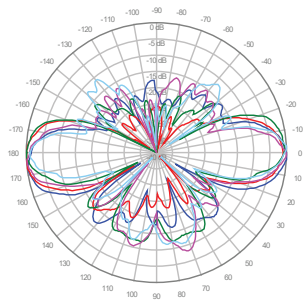


Elevation

-45°



Azimuth



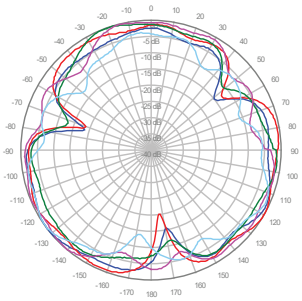
Elevation

4L6U6VT360X12Fwxys5

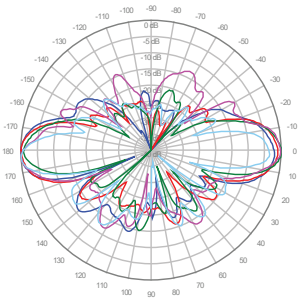
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y5, 2° TILT

+45°

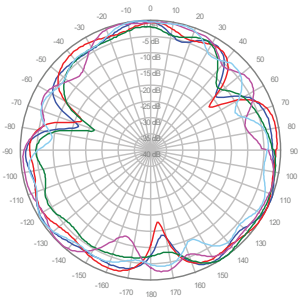


Azimuth

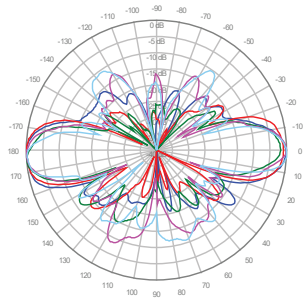


Elevation

-45°



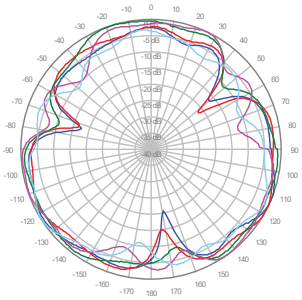
Azimuth



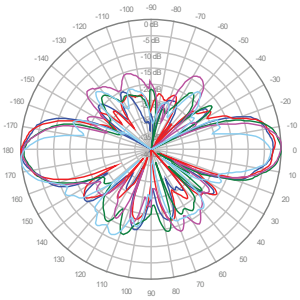
Elevation

Y6, 2° TILT

+45°

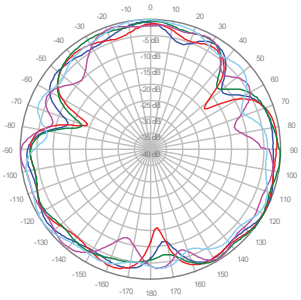


Azimuth

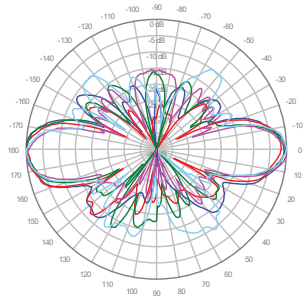


Elevation

-45°



Azimuth



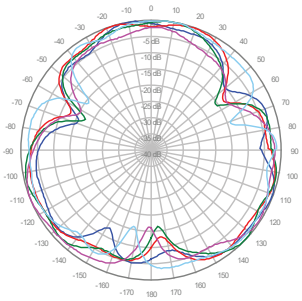
Elevation

4L6U6VT360X12Fwxys5

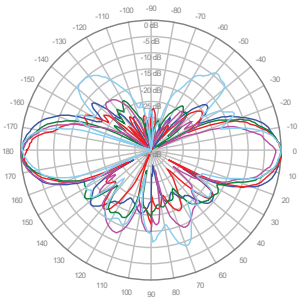
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 4° TILT

+45°

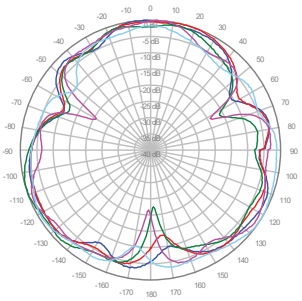


Azimuth

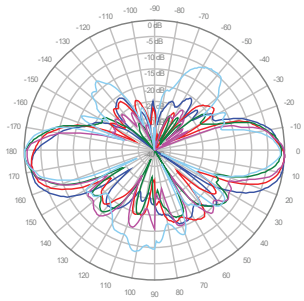


Elevation

-45°



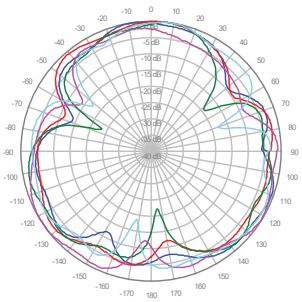
Azimuth



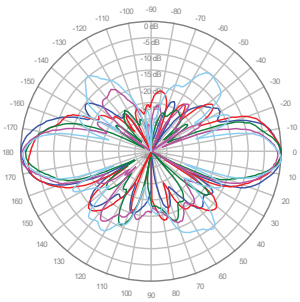
Elevation

Y2, 4° TILT

+45°

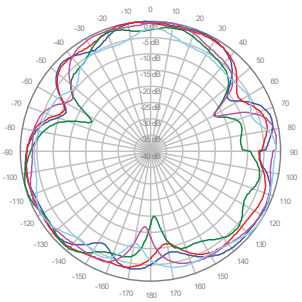


Azimuth

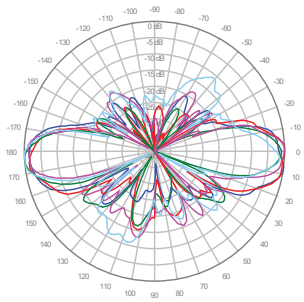


Elevation

-45°



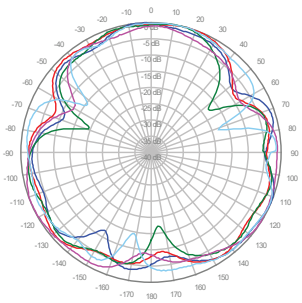
Azimuth



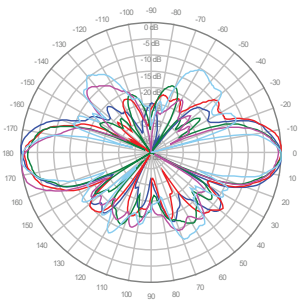
Elevation

Y3, 4° TILT

+45°

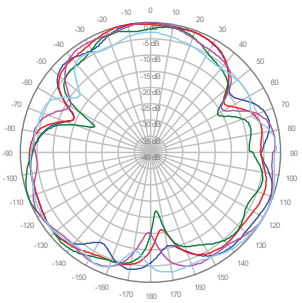


Azimuth

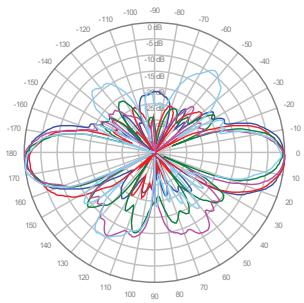


Elevation

-45°



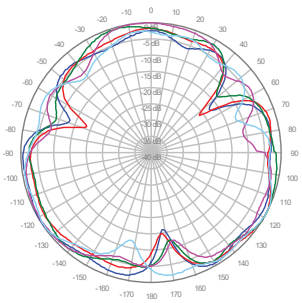
Azimuth



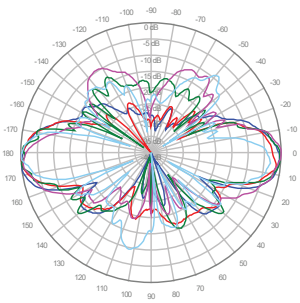
Elevation

Y4, 4° TILT

+45°

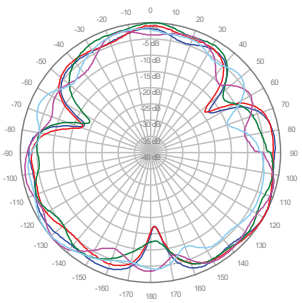


Azimuth

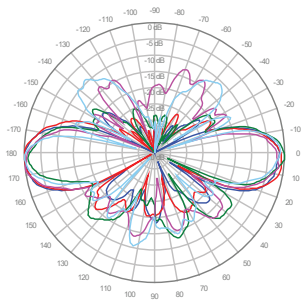


Elevation

-45°



Azimuth



Elevation

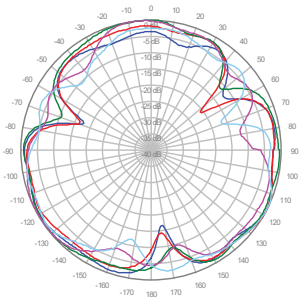
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

4L6U6VT360X12Fwxys5

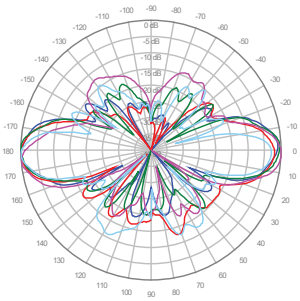
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y5, 4° TILT

+45°

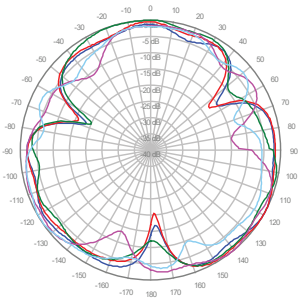


Azimuth

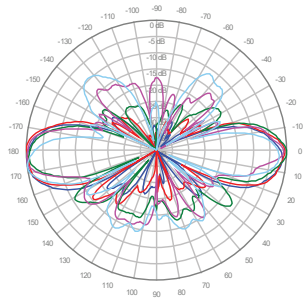


Elevation

-45°



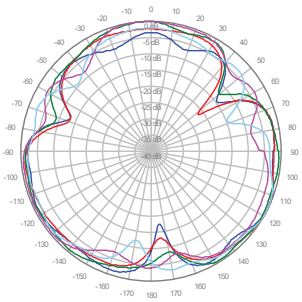
Azimuth



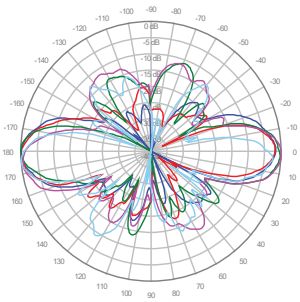
Elevation

Y6, 4° TILT

+45°

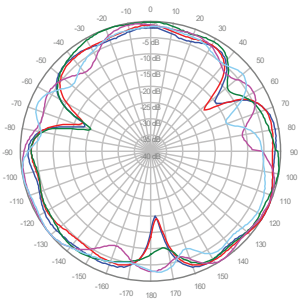


Azimuth

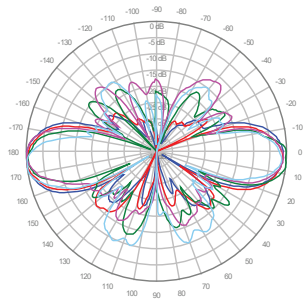


Elevation

-45°



Azimuth



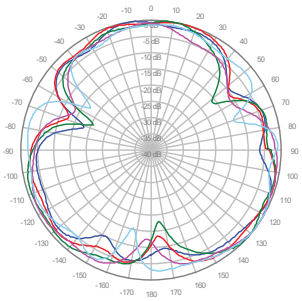
Elevation

4L6U6VT360X12Fwxys5

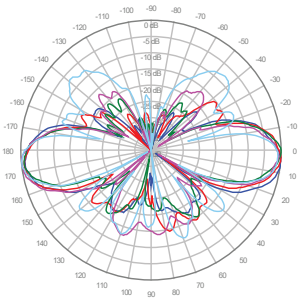
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 6° TILT

+45°

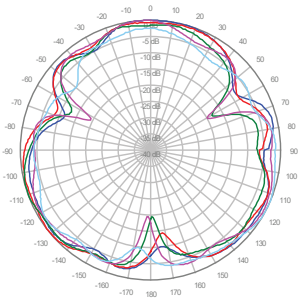


Azimuth

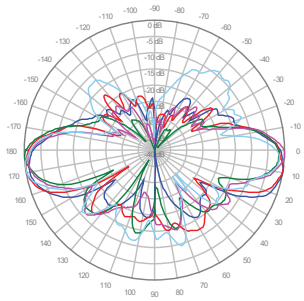


Elevation

-45°



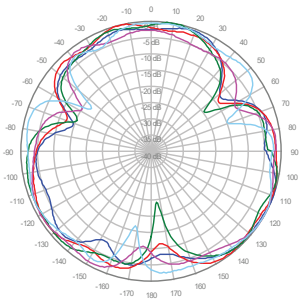
Azimuth



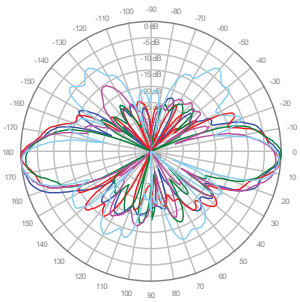
Elevation

Y2, 6° TILT

+45°

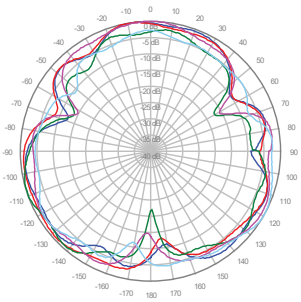


Azimuth

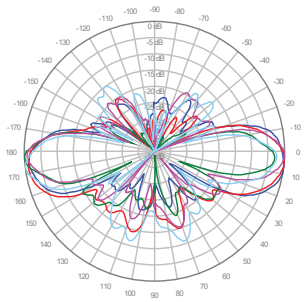


Elevation

-45°



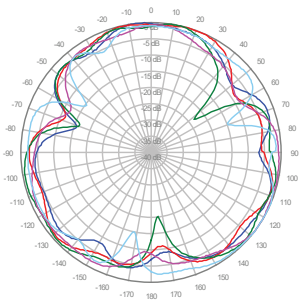
Azimuth



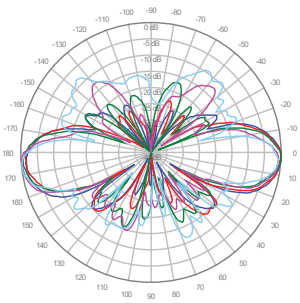
Elevation

Y3, 6° TILT

+45°

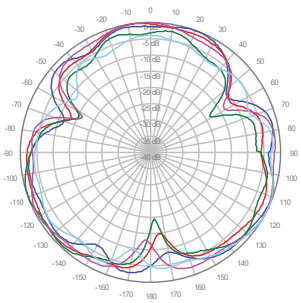


Azimuth

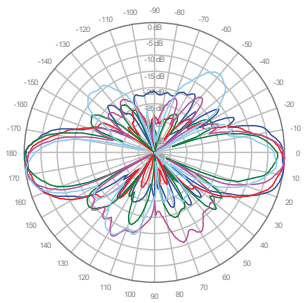


Elevation

-45°



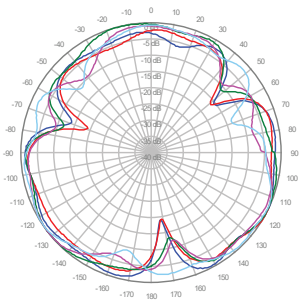
Azimuth



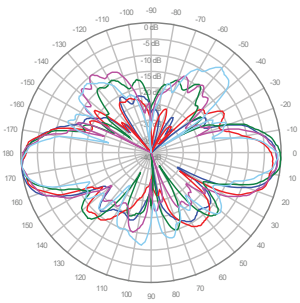
Elevation

Y4, 6° TILT

+45°

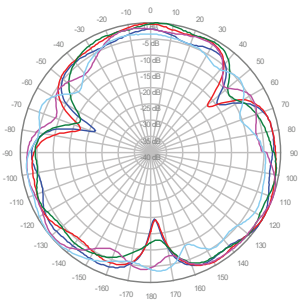


Azimuth

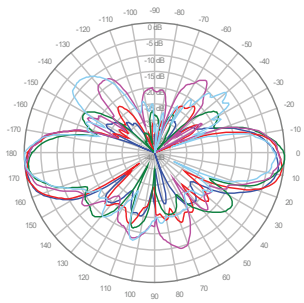


Elevation

-45°



Azimuth



Elevation

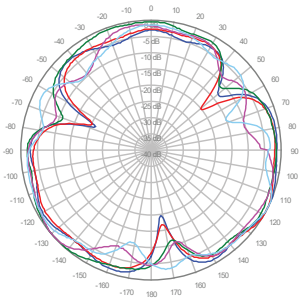
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

4L6U6VT360X12Fwxys5

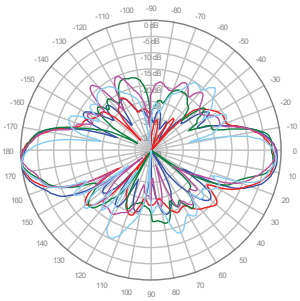
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y5, 6° TILT

+45°

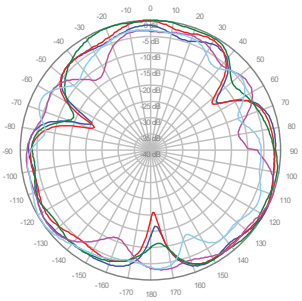


Azimuth

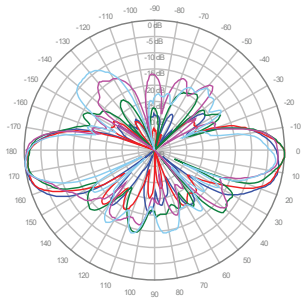


Elevation

-45°



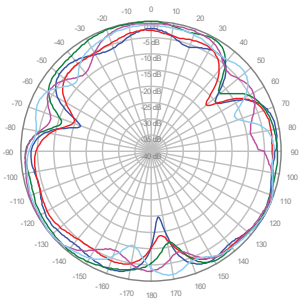
Azimuth



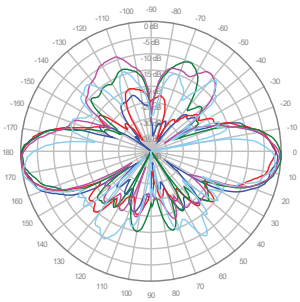
Elevation

Y6, 6° TILT

+45°

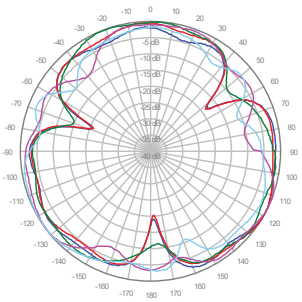


Azimuth

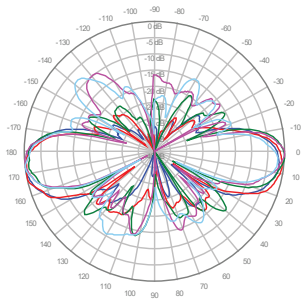


Elevation

-45°



Azimuth



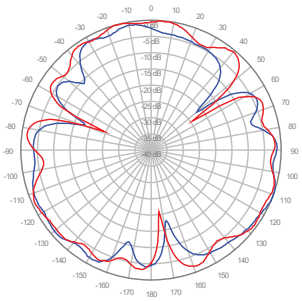
Elevation

4L6U6VT360X12Fwxys5

3600 MHz
4000 MHz

P1, 2° TILT

+45°



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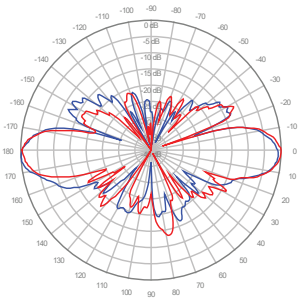
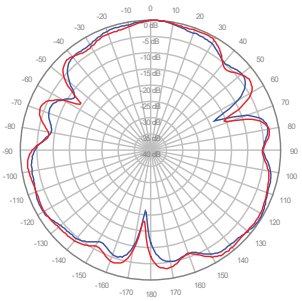
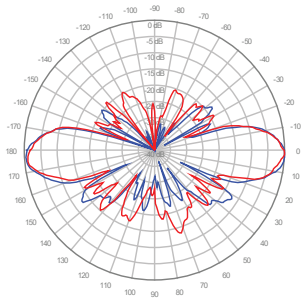


Elevation

-45°



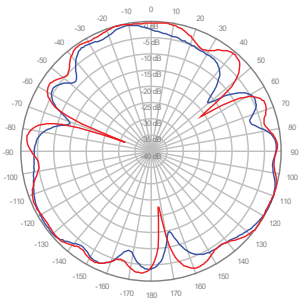
Azimuth



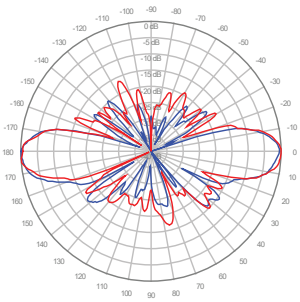
Elevation

P2, 2° TILT

+45°

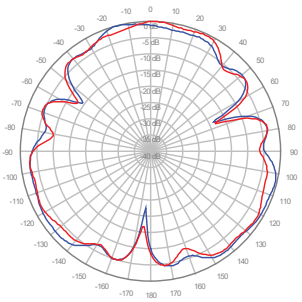


Azimuth

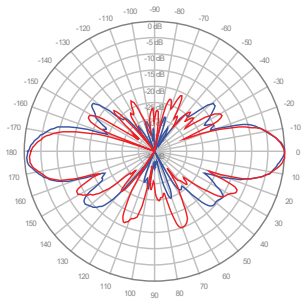


Elevation

-45°



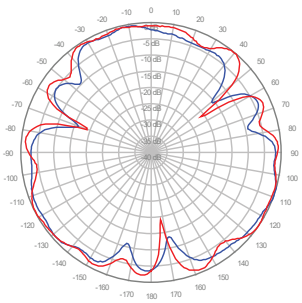
Azimuth



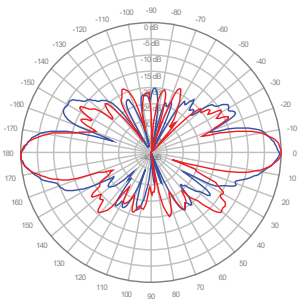
Elevation

P3, 2° TILT

+45°

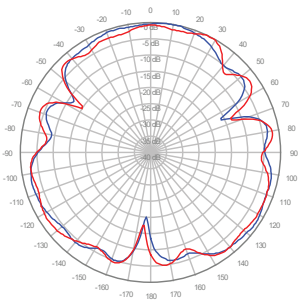


Azimuth

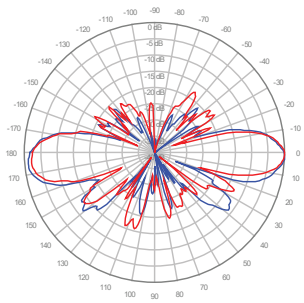


Elevation

-45°



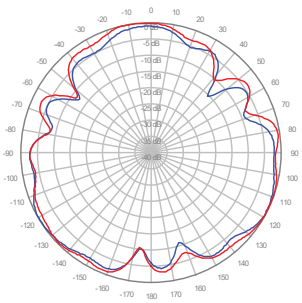
Azimuth



Elevation

P4, 2° TILT

+45°



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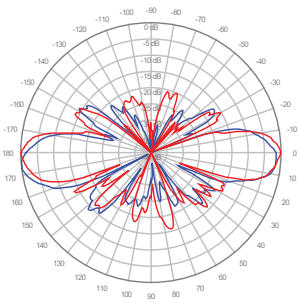
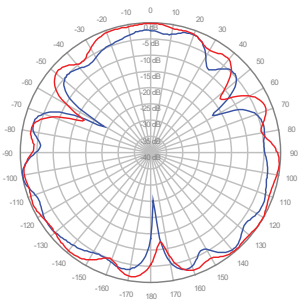
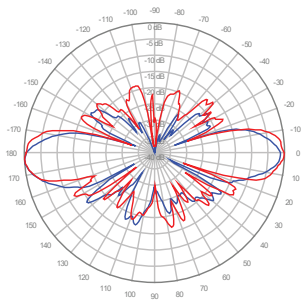


Elevation

-45°



Azimuth



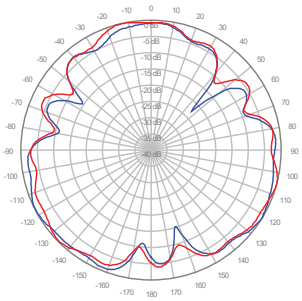
Elevation

4L6U6VT360X12Fwxys5

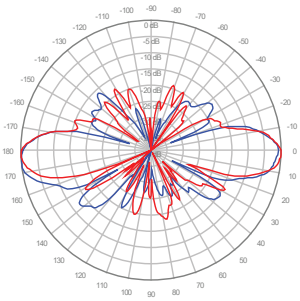
3600 MHz
4000 MHz

P5, 2° TILT

+45°

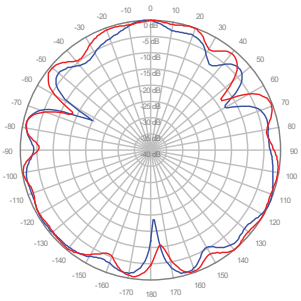


Azimuth

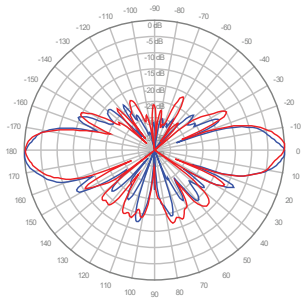


Elevation

-45°



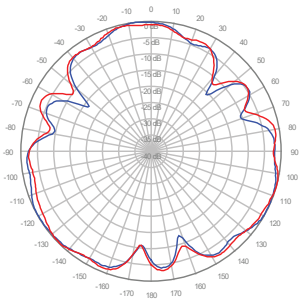
Azimuth



Elevation

P6, 2° TILT

+45°



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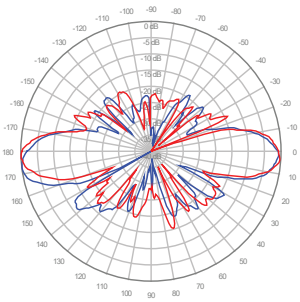
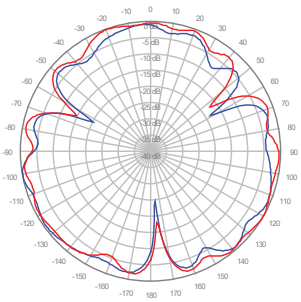
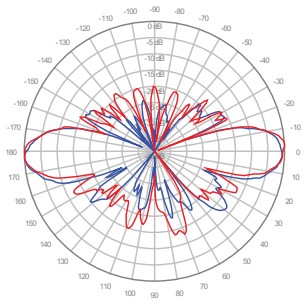


Elevation

-45°



Azimuth



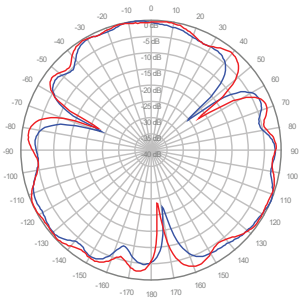
Elevation

4L6U6VT360X12Fwxys5

3600 MHz
4000 MHz

P1, 4° TILT

+45°



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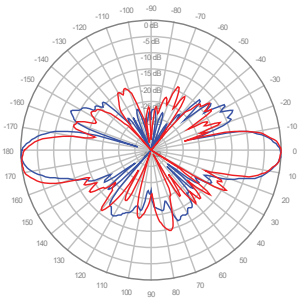
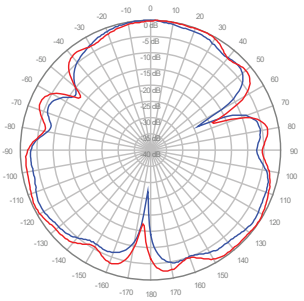
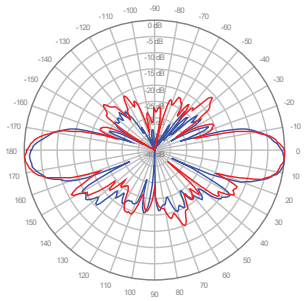


Elevation

-45°



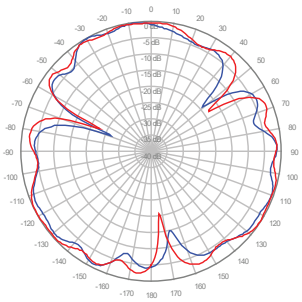
Azimuth



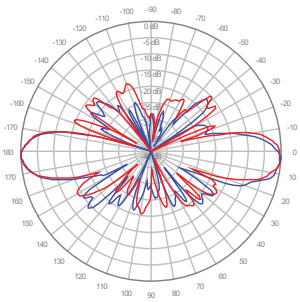
Elevation

P2, 4° TILT

+45°

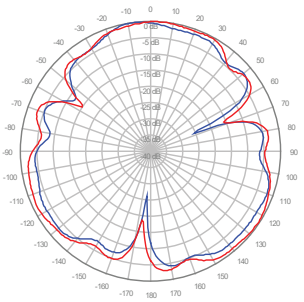


Azimuth

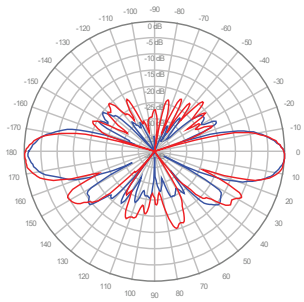


Elevation

-45°



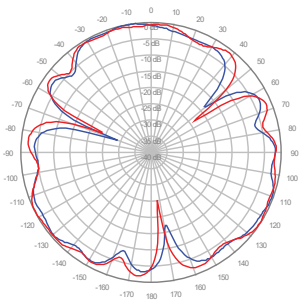
Azimuth



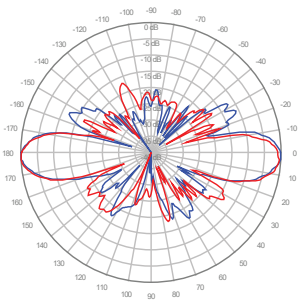
Elevation

P3, 4° TILT

+45°

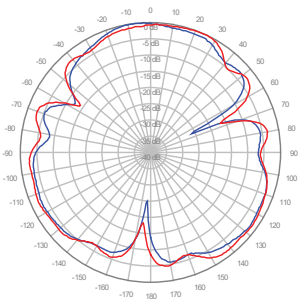


Azimuth

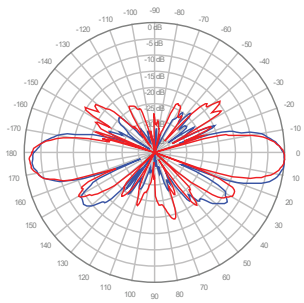


Elevation

-45°



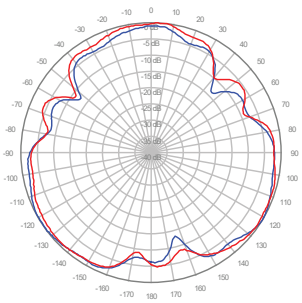
Azimuth



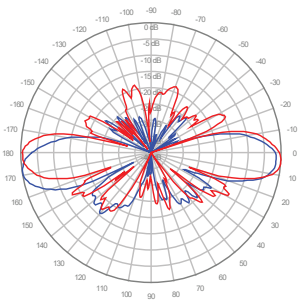
Elevation

P4, 4° TILT

+45°

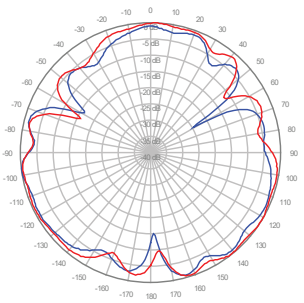


Azimuth

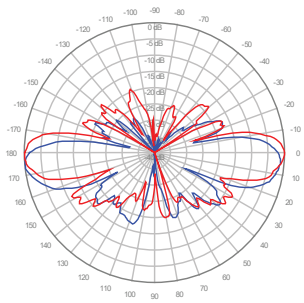


Elevation

-45°



Azimuth



Elevation

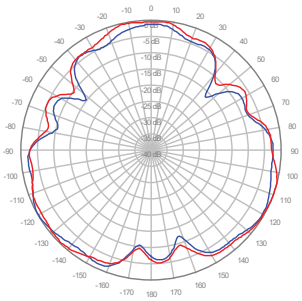
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

4L6U6VT360X12Fwxys5

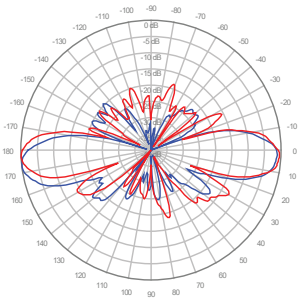
3600 MHz
4000 MHz

P5, 4° TILT

+45°

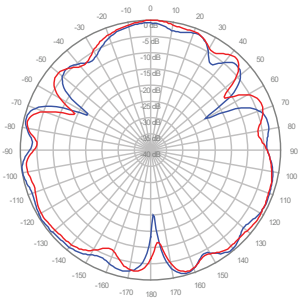


Azimuth

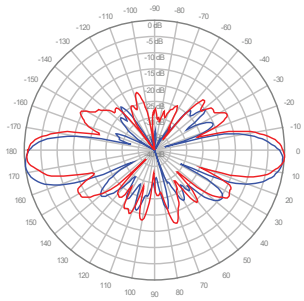


Elevation

-45°



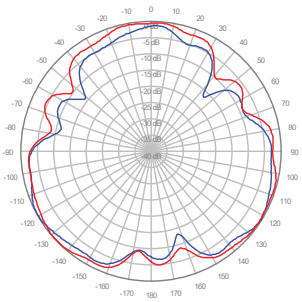
Azimuth



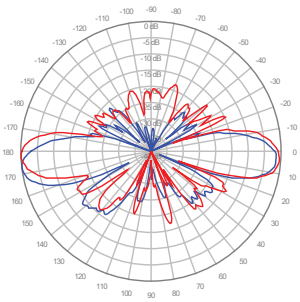
Elevation

P6, 4° TILT

+45°

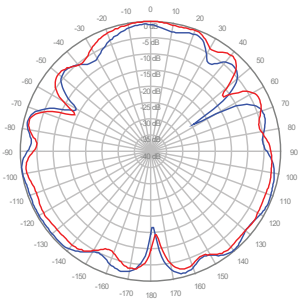


Azimuth

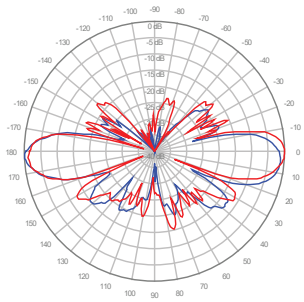


Elevation

-45°



Azimuth



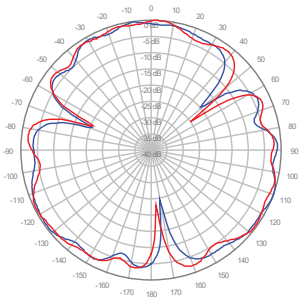
Elevation

4L6U6VT360X12Fwxys5

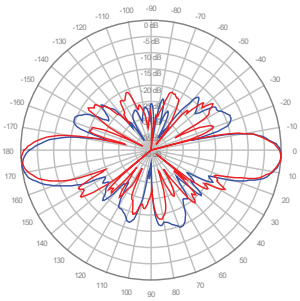
3600 MHz
4000 MHz

P1, 6° TILT

+45°

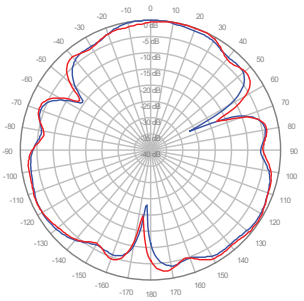


Azimuth

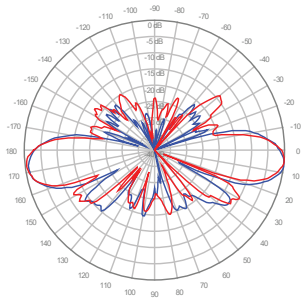


Elevation

-45°



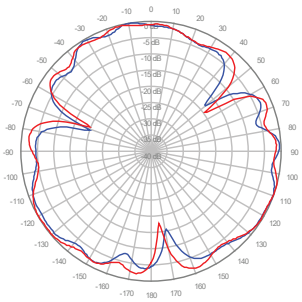
Azimuth



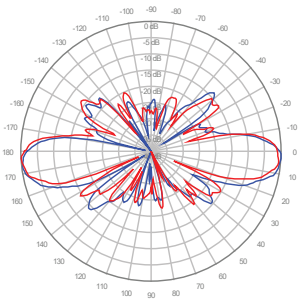
Elevation

P2, 6° TILT

+45°

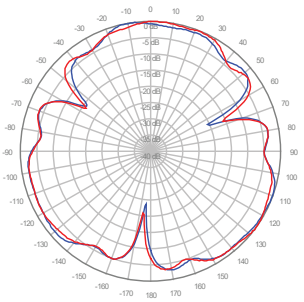


Azimuth

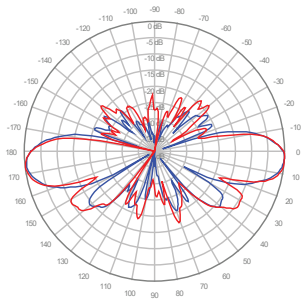


Elevation

-45°



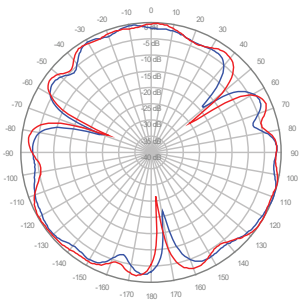
Azimuth



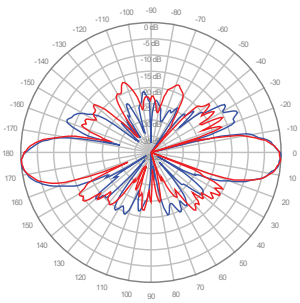
Elevation

P3, 6° TILT

+45°

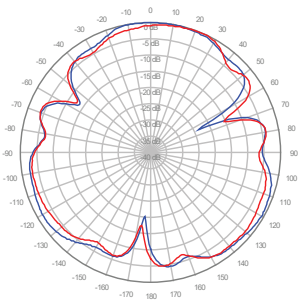


Azimuth

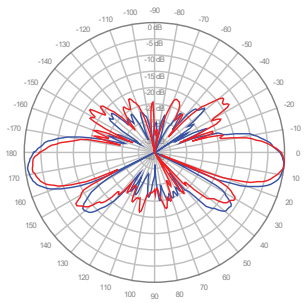


Elevation

-45°



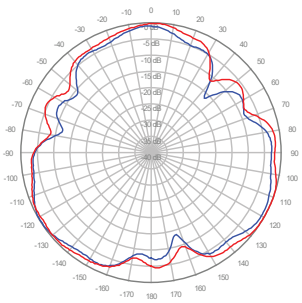
Azimuth



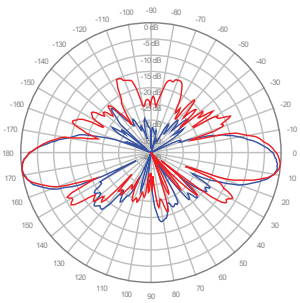
Elevation

P4, 6° TILT

+45°

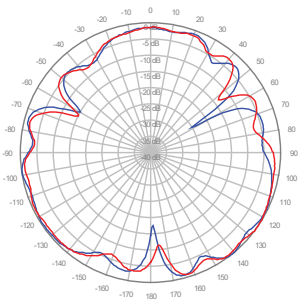


Azimuth

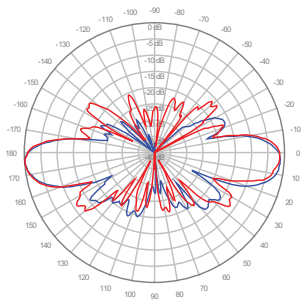


Elevation

-45°



Azimuth



Elevation

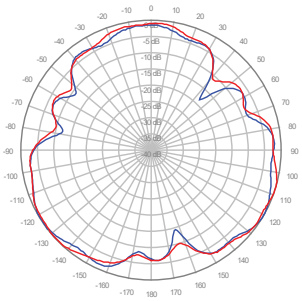
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

4L6U6VT360X12Fwxys5

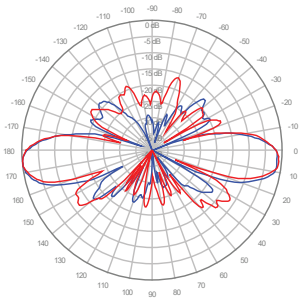
3600 MHz
4000 MHz

P5, 6° TILT

+45°

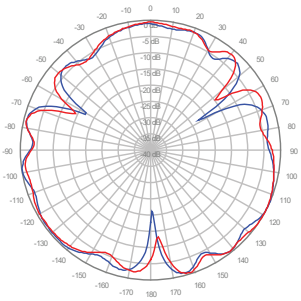


Azimuth

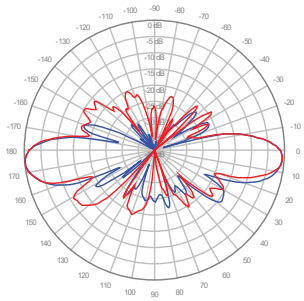


Elevation

-45°



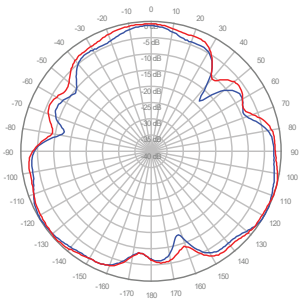
Azimuth



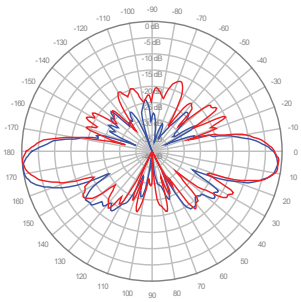
Elevation

P6, 6° TILT

+45°

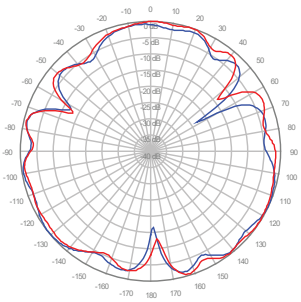


Azimuth

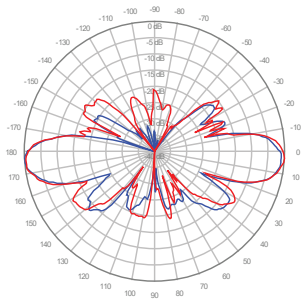


Elevation

-45°



Azimuth



Elevation