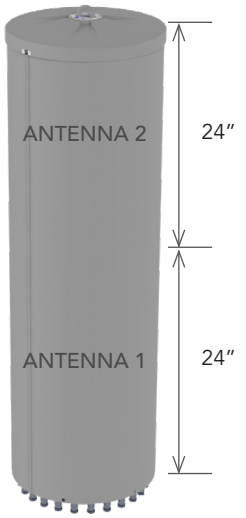
Amphenol ANTENNA SOLUTIONS

24-Port Canister Antenna

(6x) 1695-2700 | (6x) 3300-4200 MHz

OMNI | 47.4 IN | FIXED TILT

6U6VT360X12Fxys5



Features

- Pseudo omni configuration with 24 connectors
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 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)	(6x) 1695-2700	(6x) 3300-4200
	Array	Y1, Y2, Y3, Y4, Y5, Y6	P1, P2, P3, P4, P5, P6
	Connector	12 PORTS	12 PORTS
	Polarization	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°
	Electrical Downtilt	2°, 4°, 6°	2°, 4°, 6°
	Configuration	OMNI CONFIGURATION	
	Maximum Continuous Power Per Port @ 50° C (122° F)	300 WATTS	100 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	4800 WATTS	
	Connector Type	(24x) 4.3-10 FEMALE	
	Dimensions	1205 x Ø371 mm (47.4 x Ø14.6 in)	
	Radome Color Options	GREY, BROWN or BLACK	

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	9.9 ± 1.0	10.5 ± 0.9	10.4 ± 0.9	11.2 ± 0.9
	MAX	dBi	10.9	11.4	11.3	12.1
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	19.3° ± 2.0°	18.2° ± 1.4°	17.3° ± 1.9°	14.4° ± 1.8°
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			

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.

6U6VT360X12Fxys5

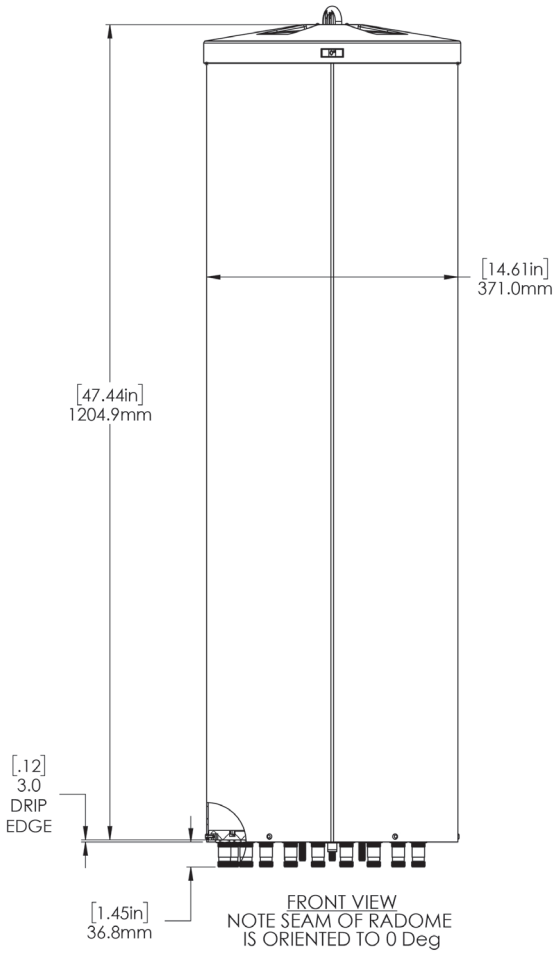
ELECTRICAL SPECIFICATIONS ■ P1 ■ P2 ■ P3 ■ P4 ■ P5 ■ P6

Frequency Range		MHz	(6x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(6x) ±45°		
Gain	BASTA	dBi	12.7 ± 1.1	12.7 ± 0.7	13.0 ± 0.8
	MAX	dBi	13.8	13.4	13.8
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	7.9° ± 0.6°	7.7° ± 0.5°	7.2° ± 0.7°
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		

6U6VT360X12Fxys5

MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	1205 (47.4)
	Diameter		mm (in)	371 (14.6)
Net Weight - Antenna Only			kg (lbs)	29 (64)
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 & Quantity	---	(24x) 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

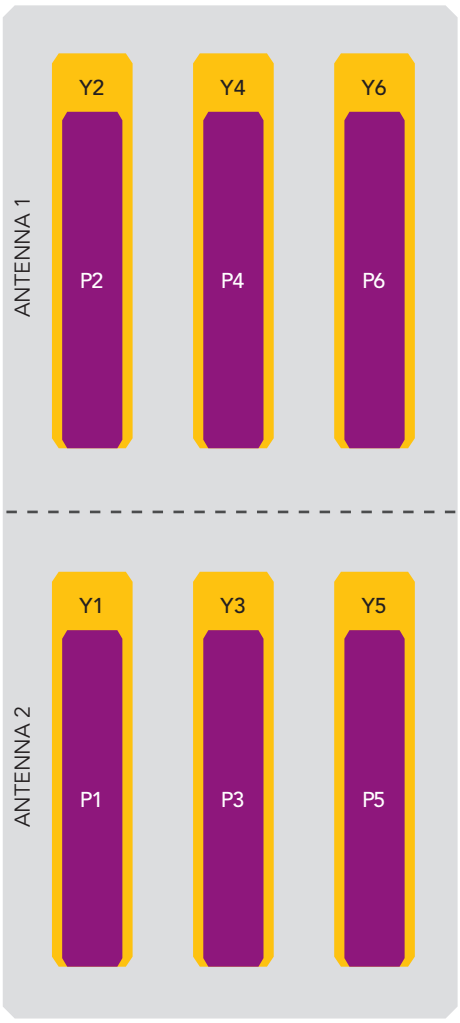


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

6U6VT360X12Fxys5

ARRAY LAYOUT Topology

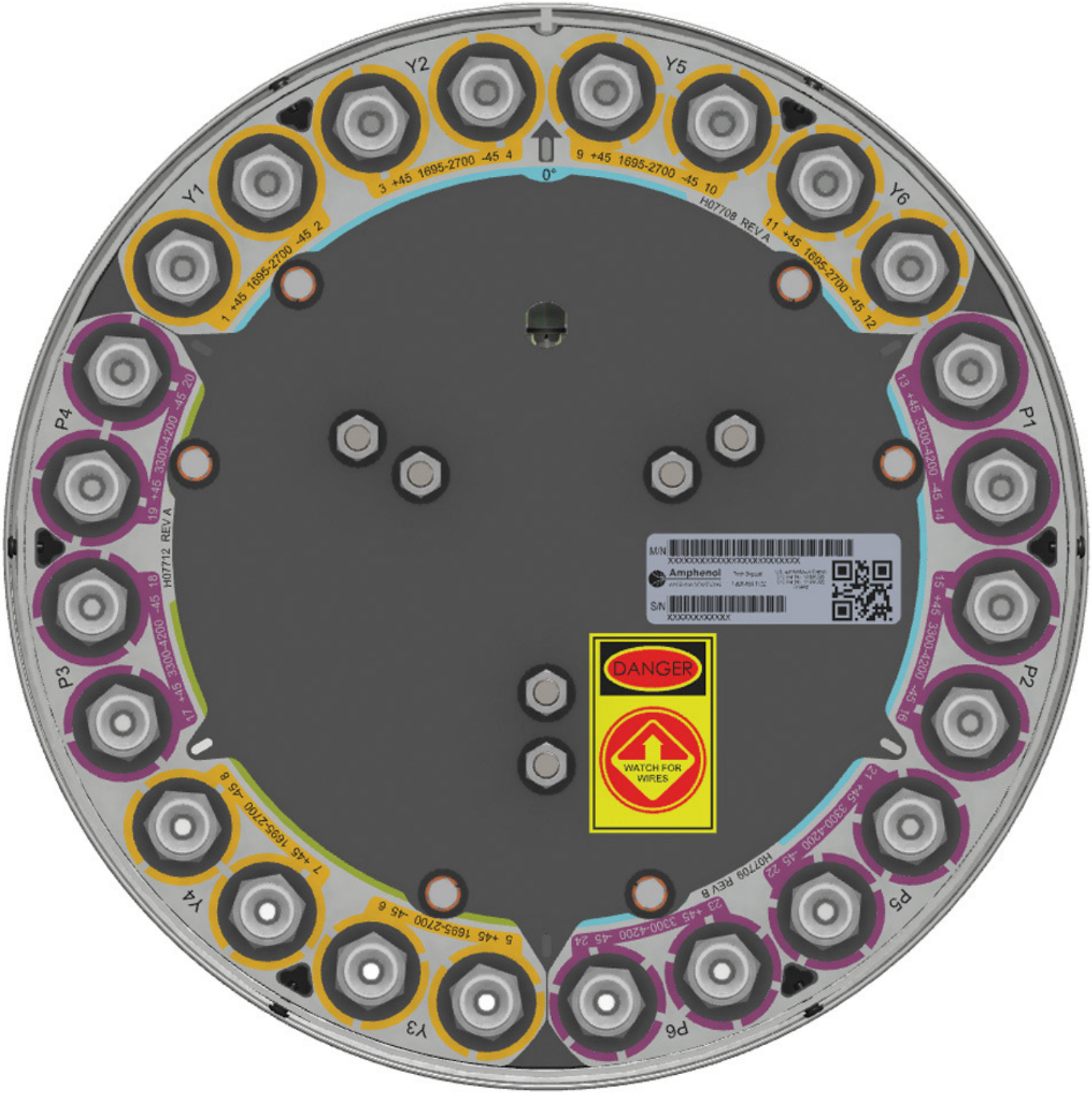
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
1695-2700 MHz	Y1	1-2	(2x) 4.3-10 Female
1695-2700 MHz	Y2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	Y3	5-6	(2x) 4.3-10 Female
1695-2700 MHz	Y4	7-8	(2x) 4.3-10 Female
1695-2700 MHz	Y5	9-10	(2x) 4.3-10 Female
1695-2700 MHz	Y6	11-12	(2x) 4.3-10 Female
3300-4200 MHz	P1	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
3300-4200 MHz	P5	21-22	(2x) 4.3-10 Female
3300-4200 MHz	P6	23-24	(2x) 4.3-10 Female



The illustration is not shown to scale.

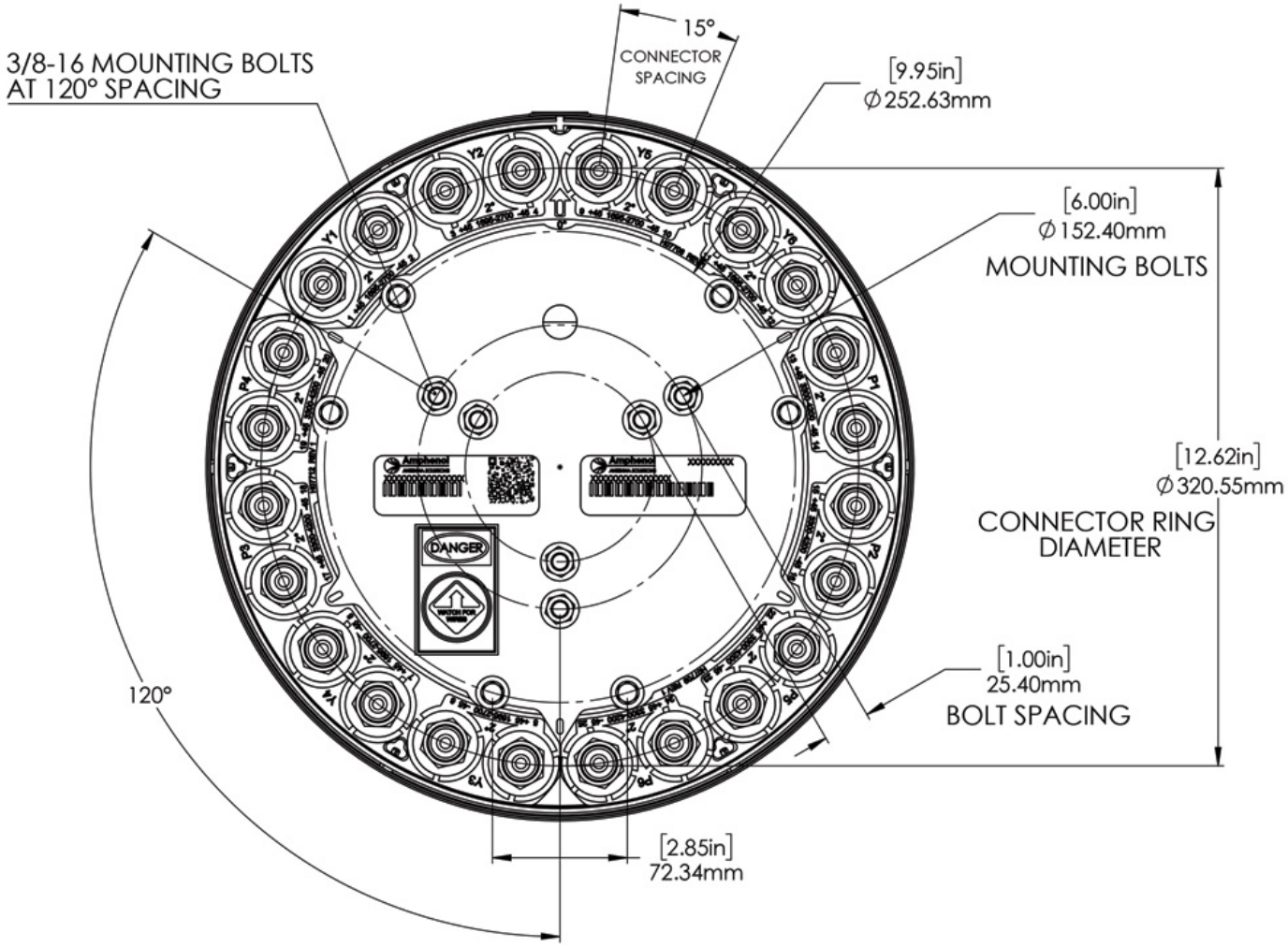
6U6VT360X12Fxys5

BOTTOM VIEW - LABELING



6U6VT360X12Fxys5

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.

6U6VT360X12Fxys5

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.

6U6VT360X12Fxys5

HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

NUMBER OF BANDS & OPERATING FREQUENCY		PATTERN TYPE	AZIMUTH BMWDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
6U	6V	T	360	X	12	F	xy	s	5	BK BR
(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	5th generation 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

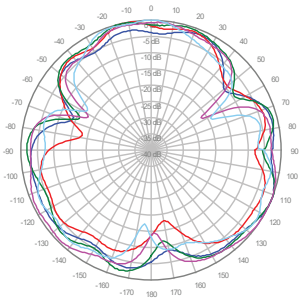
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND		ANTENNA MODEL
	1695-2700 MHz	3300-4200 MHz	
Grey Pantone 420 C	2°	2°	6U6VT360X12F22s5
	2°	4°	6U6VT360X12F24s5
	2°	6°	6U6VT360X12F26s5
	4°	2°	6U6VT360X12F42s5
	4°	4°	6U6VT360X12F44s5
	4°	6°	6U6VT360X12F46s5
	6°	2°	6U6VT360X12F62s5
	6°	4°	6U6VT360X12F64s5
	6°	6°	6U6VT360X12F66s5
Brown Pantone 476 C	2°	2°	6U6VT360X12F22s5BR
	2°	4°	6U6VT360X12F24s5BR
	2°	6°	6U6VT360X12F26s5BR
	4°	2°	6U6VT360X12F42s5BR
	4°	4°	6U6VT360X12F44s5BR
	4°	6°	6U6VT360X12F46s5BR
	6°	2°	6U6VT360X12F62s5BR
	6°	4°	6U6VT360X12F64s5BR
	6°	6°	6U6VT360X12F66s5BR
Black RAL 9011	2°	2°	6U6VT360X12F22s5BK
	2°	4°	6U6VT360X12F24s5BK
	2°	6°	6U6VT360X12F26s5BK
	4°	2°	6U6VT360X12F42s5BK
	4°	4°	6U6VT360X12F44s5BK
	4°	6°	6U6VT360X12F46s5BK
	6°	2°	6U6VT360X12F62s5BK
	6°	4°	6U6VT360X12F64s5BK
	6°	6°	6U6VT360X12F66s5BK

6U6VT360X12Fxys5

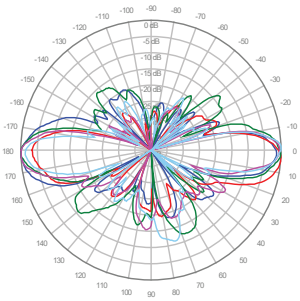
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 2° TILT

+45°

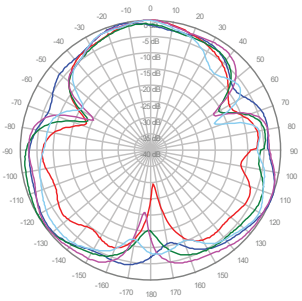


Azimuth

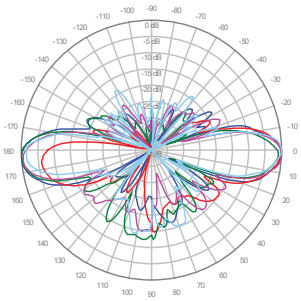


Elevation

-45°



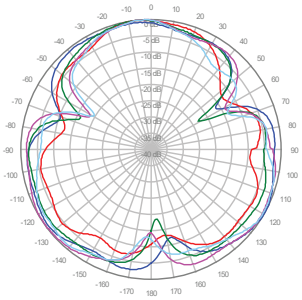
Azimuth



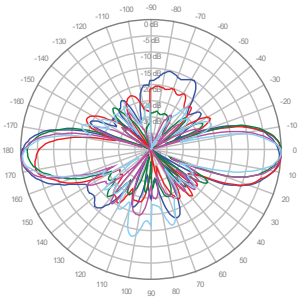
Elevation

Y2, 2° TILT

+45°

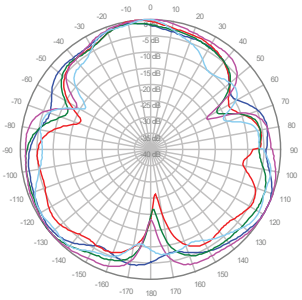


Azimuth

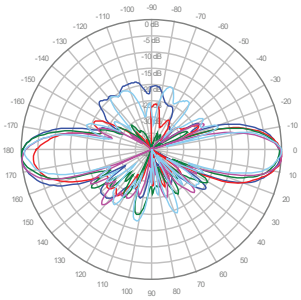


Elevation

-45°



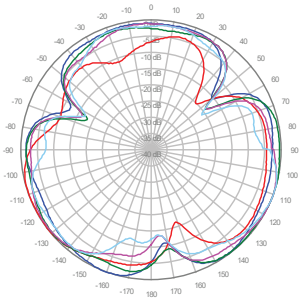
Azimuth



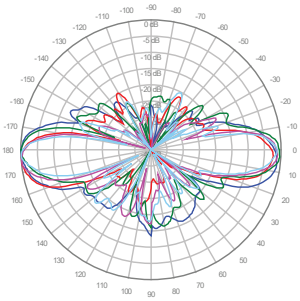
Elevation

Y3, 2° TILT

+45°

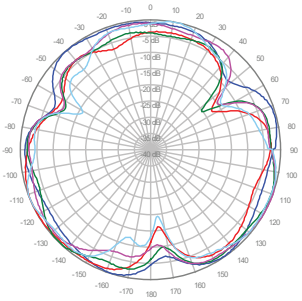


Azimuth

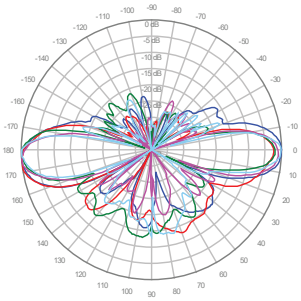


Elevation

-45°



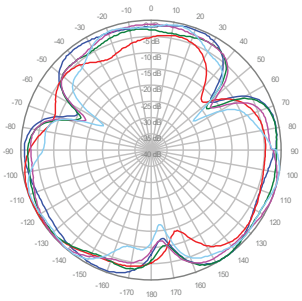
Azimuth



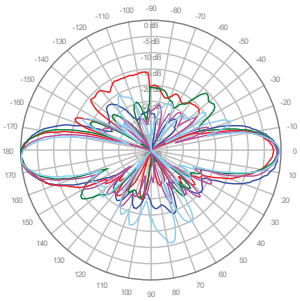
Elevation

Y4, 2° TILT

+45°

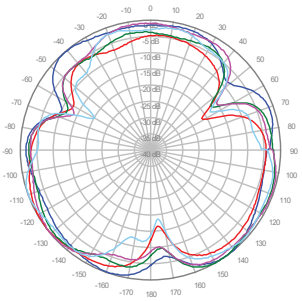


Azimuth

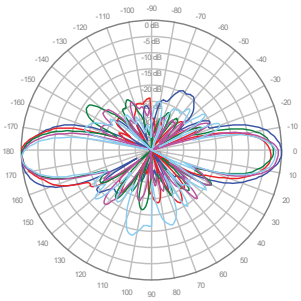


Elevation

-45°



Azimuth



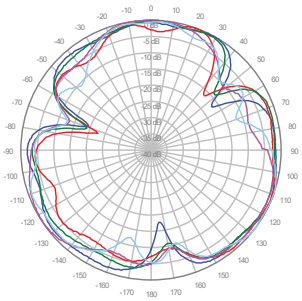
Elevation

6U6VT360X12Fxys5

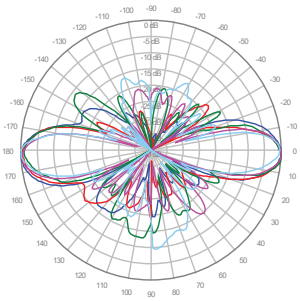
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y5, 2° TILT

+45°

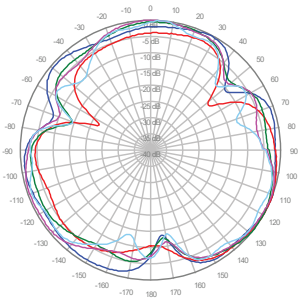


Azimuth

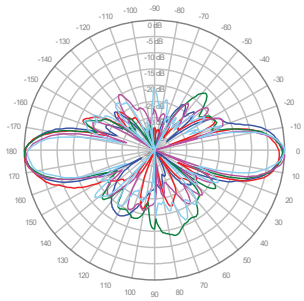


Elevation

-45°



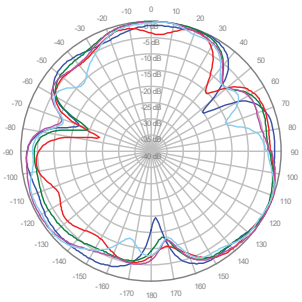
Azimuth



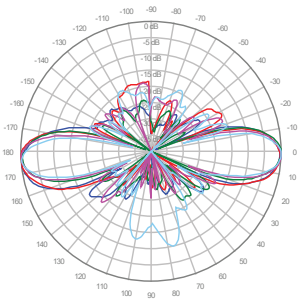
Elevation

Y6, 2° TILT

+45°

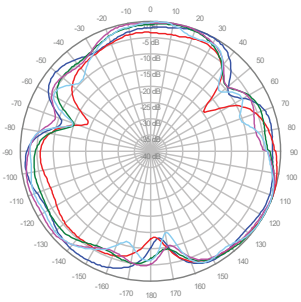


Azimuth

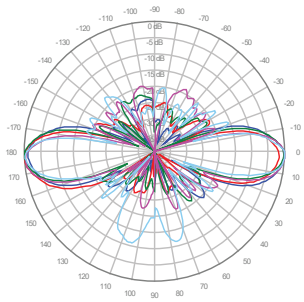


Elevation

-45°



Azimuth



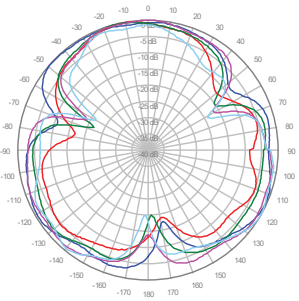
Elevation

6U6VT360X12Fxys5

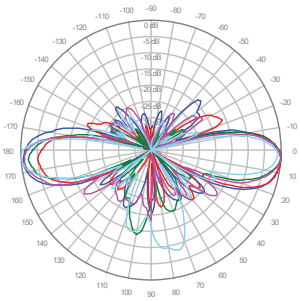
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 4° TILT

+45°

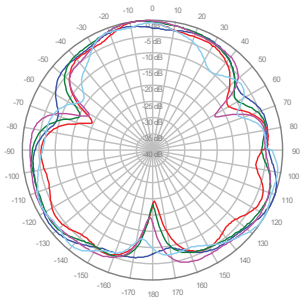


Azimuth

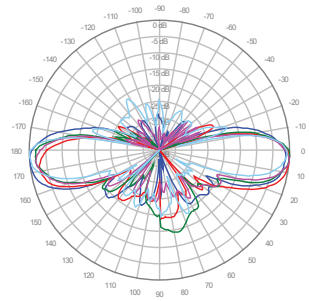


Elevation

-45°



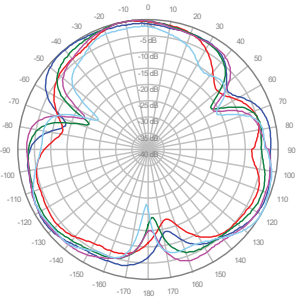
Azimuth



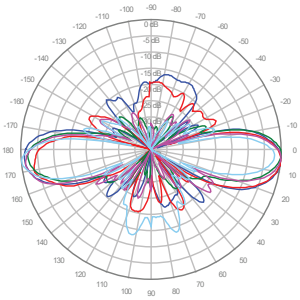
Elevation

Y2, 4° TILT

+45°

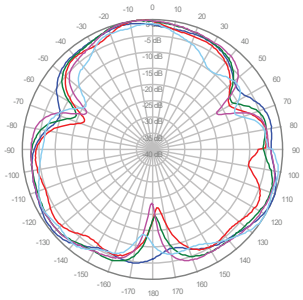


Azimuth

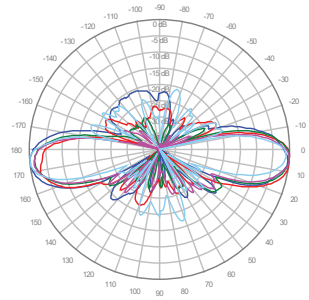


Elevation

-45°



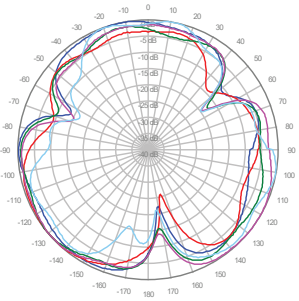
Azimuth



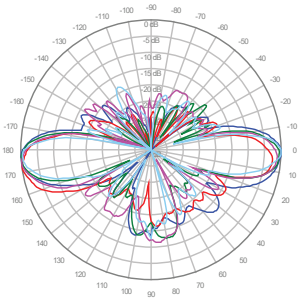
Elevation

Y3, 4° TILT

+45°

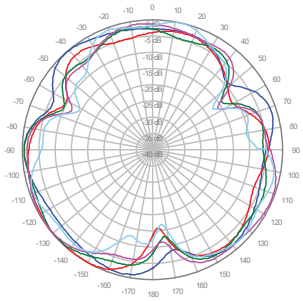


Azimuth

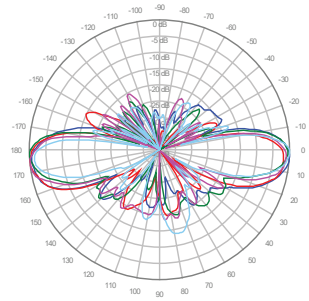


Elevation

-45°



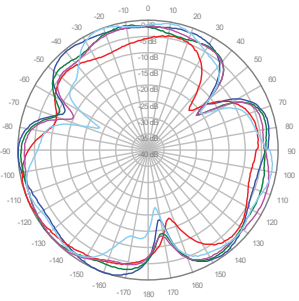
Azimuth



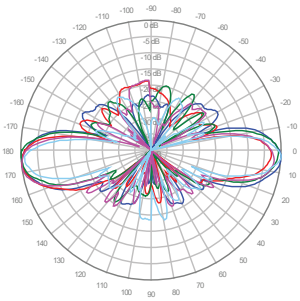
Elevation

Y4, 4° TILT

+45°

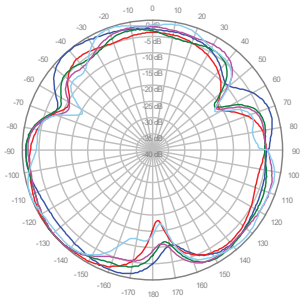


Azimuth

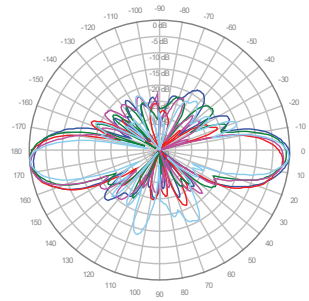


Elevation

-45°



Azimuth



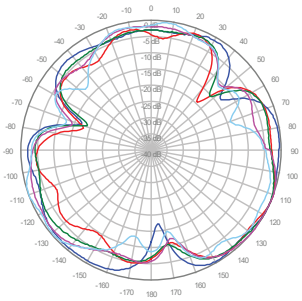
Elevation

6U6VT360X12Fxys5

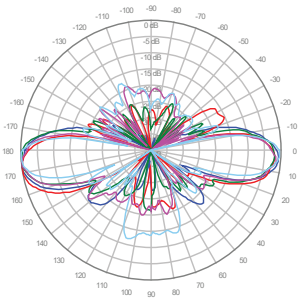
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y5, 4° TILT

+45°

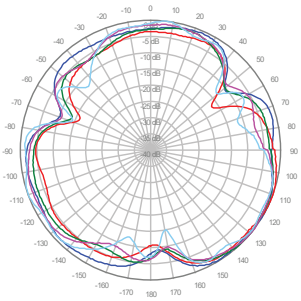


Azimuth

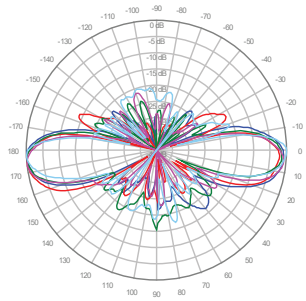


Elevation

-45°



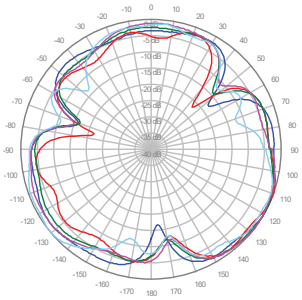
Azimuth



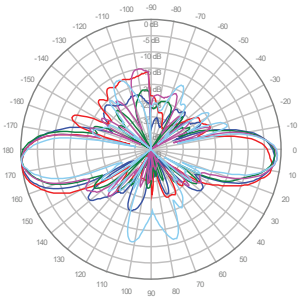
Elevation

Y6, 4° TILT

+45°

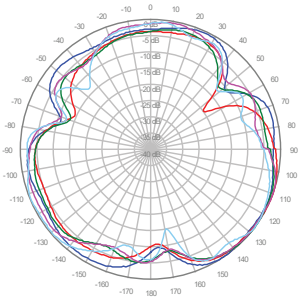


Azimuth

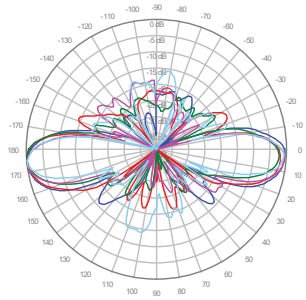


Elevation

-45°



Azimuth



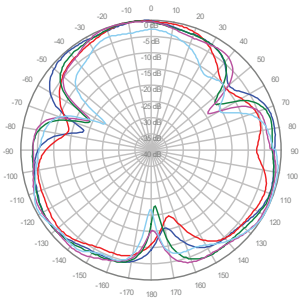
Elevation

6U6VT360X12Fxys5

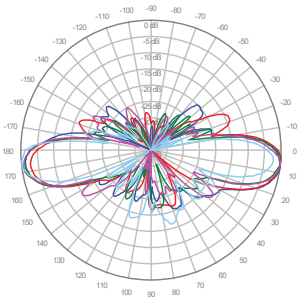
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 6° TILT

+45°

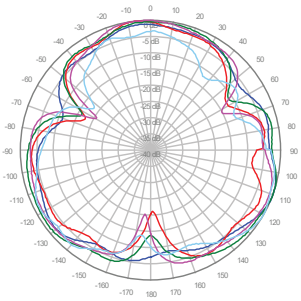


Azimuth

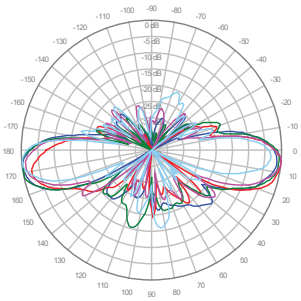


Elevation

-45°



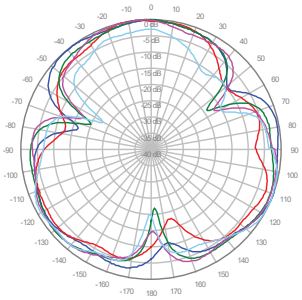
Azimuth



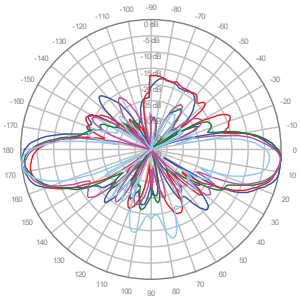
Elevation

Y2, 6° TILT

+45°

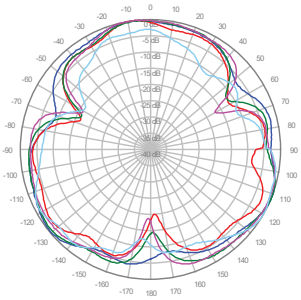


Azimuth

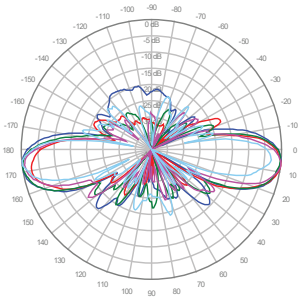


Elevation

-45°



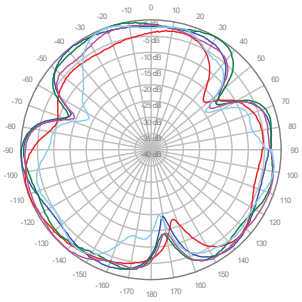
Azimuth



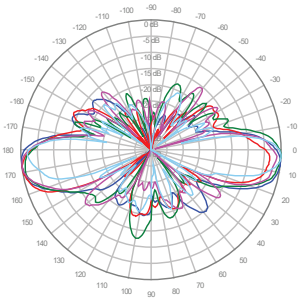
Elevation

Y3, 6° TILT

+45°

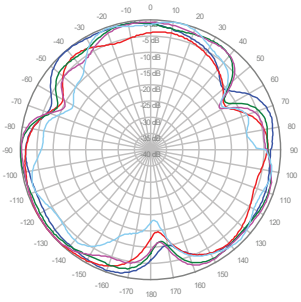


Azimuth

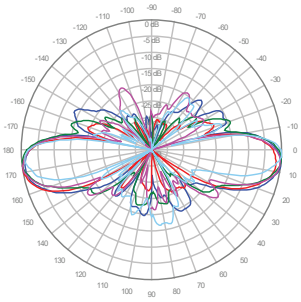


Elevation

-45°



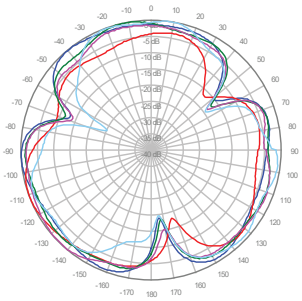
Azimuth



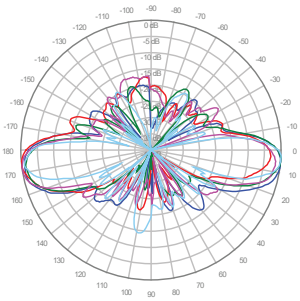
Elevation

Y4, 6° TILT

+45°

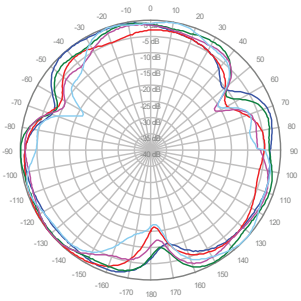


Azimuth

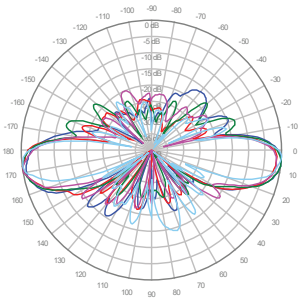


Elevation

-45°



Azimuth



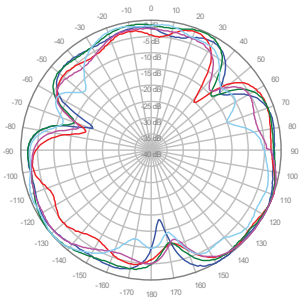
Elevation

6U6VT360X12Fxys5

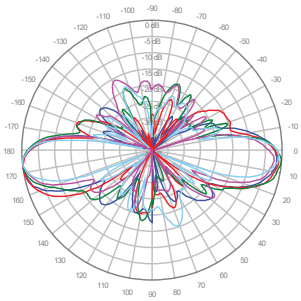
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y5, 6° TILT

+45°

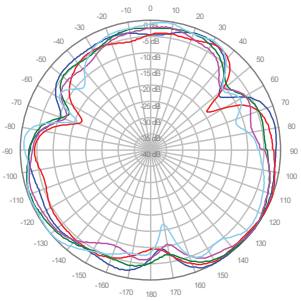


Azimuth

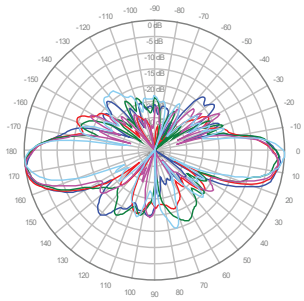


Elevation

-45°



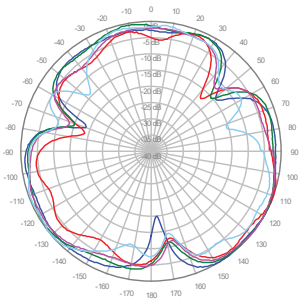
Azimuth



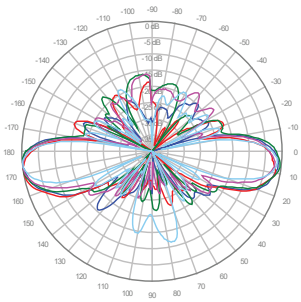
Elevation

Y6, 6° TILT

+45°

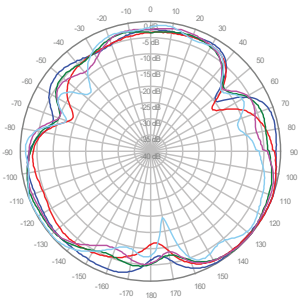


Azimuth

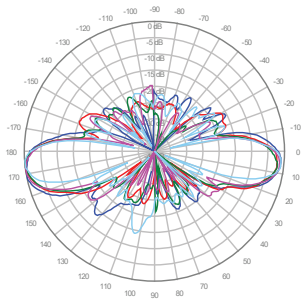


Elevation

-45°



Azimuth



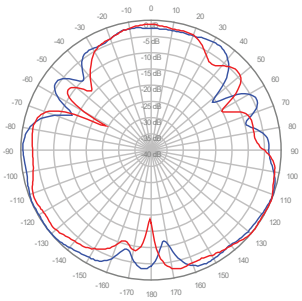
Elevation

6U6VT360X12Fxys5

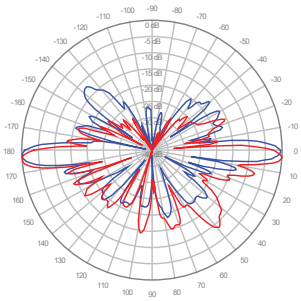
3600 MHz
4000 MHz

P1, 2° TILT

+45°

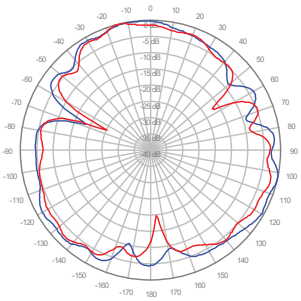


Azimuth

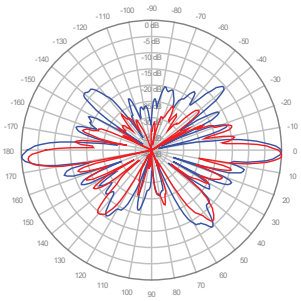


Elevation

-45°



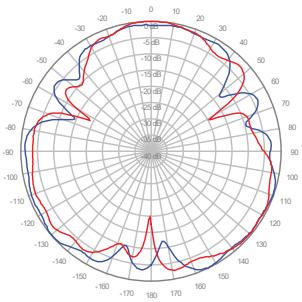
Azimuth



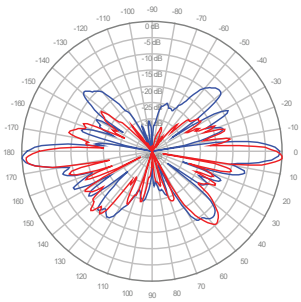
Elevation

P2, 2° TILT

+45°

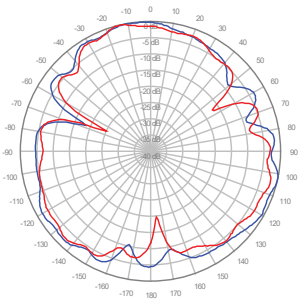


Azimuth

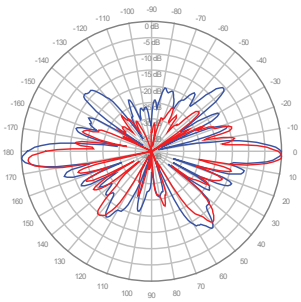


Elevation

-45°



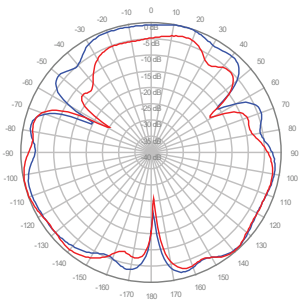
Azimuth



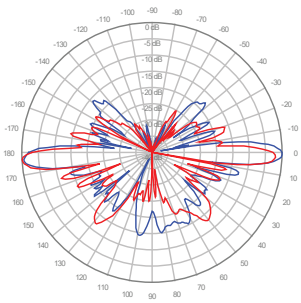
Elevation

P3, 2° TILT

+45°

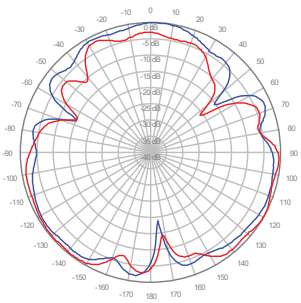


Azimuth

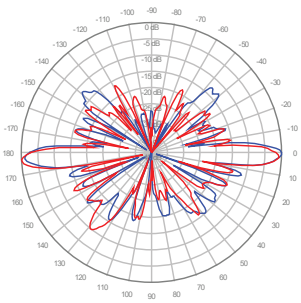


Elevation

-45°



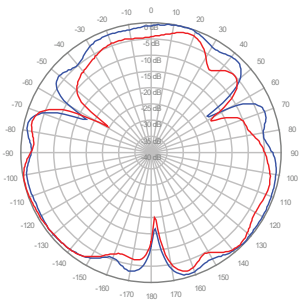
Azimuth



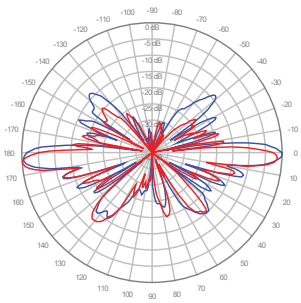
Elevation

P4, 2° TILT

+45°

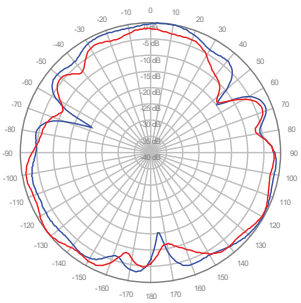


Azimuth

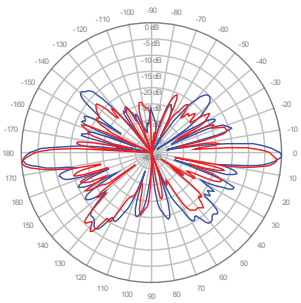


Elevation

-45°



Azimuth



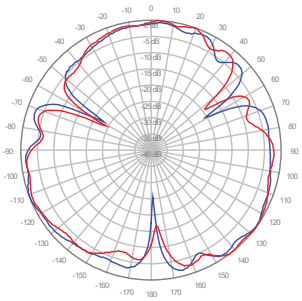
Elevation

6U6VT360X12Fxys5

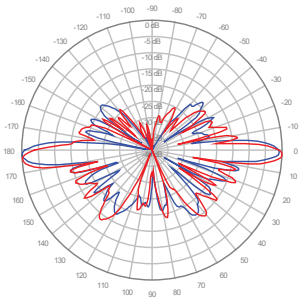
3600 MHz
4000 MHz

P5, 2° TILT

+45°

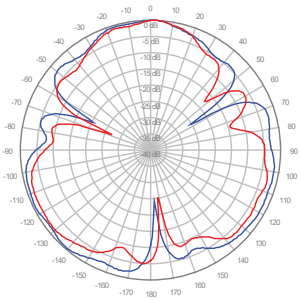


Azimuth

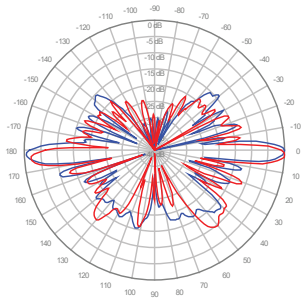


Elevation

-45°



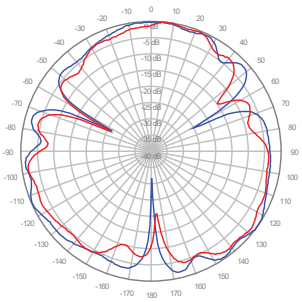
Azimuth



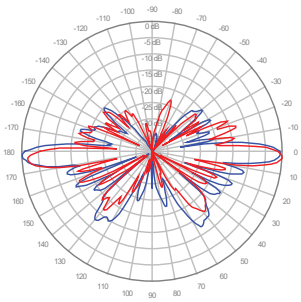
Elevation

P6, 2° TILT

+45°

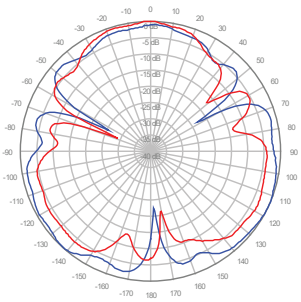


Azimuth

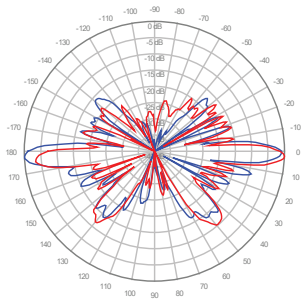


Elevation

-45°



Azimuth



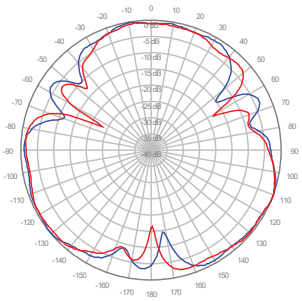
Elevation

6U6VT360X12Fxys5

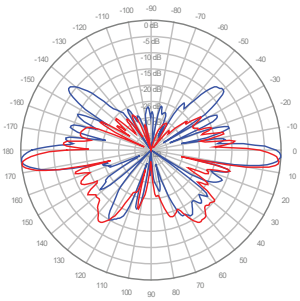
3600 MHz
4000 MHz

P1, 4° TILT

+45°

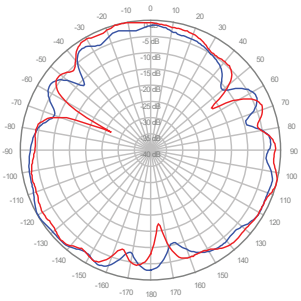


Azimuth

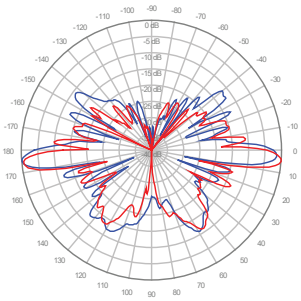


Elevation

-45°



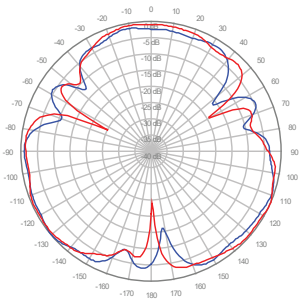
Azimuth



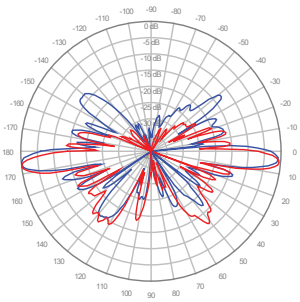
Elevation

P2, 4° TILT

+45°

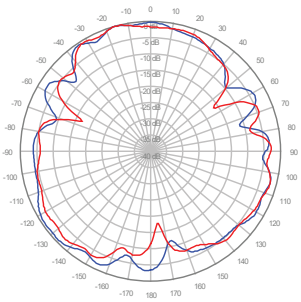


Azimuth

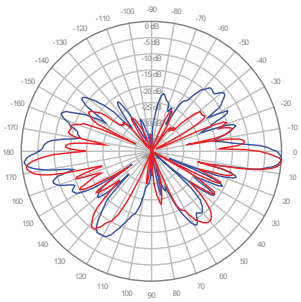


Elevation

-45°



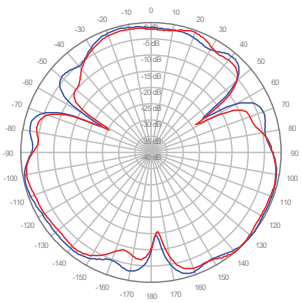
Azimuth



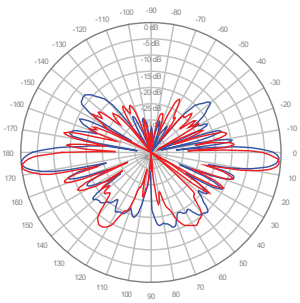
Elevation

P3, 4° TILT

+45°

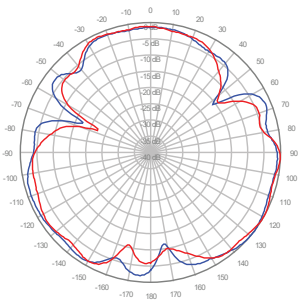


Azimuth

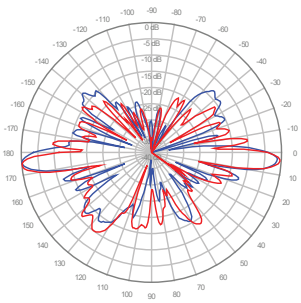


Elevation

-45°



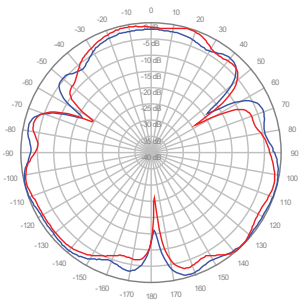
Azimuth



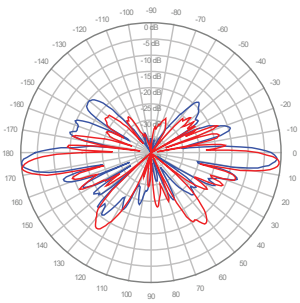
Elevation

P4, 4° TILT

+45°

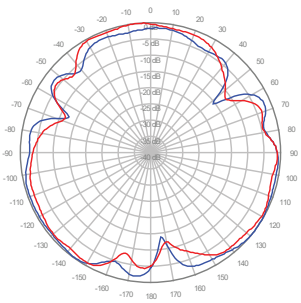


Azimuth

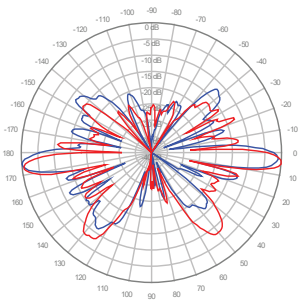


Elevation

-45°



Azimuth



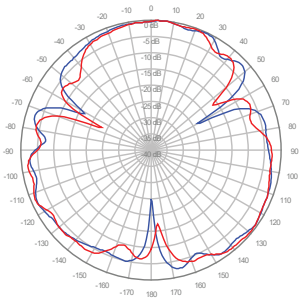
Elevation

6U6VT360X12Fxys5

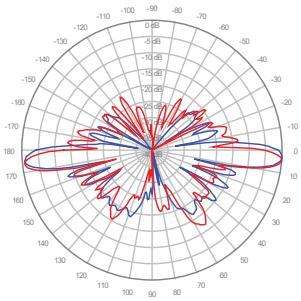
3600 MHz
4000 MHz

P5, 4° TILT

+45°

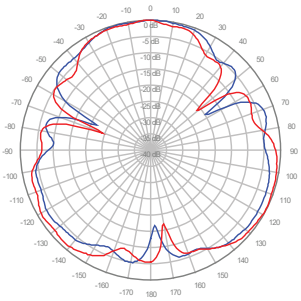


Azimuth

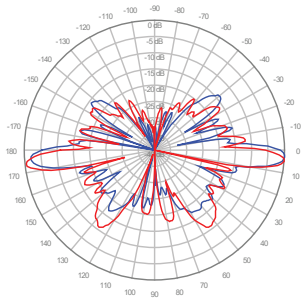


Elevation

-45°



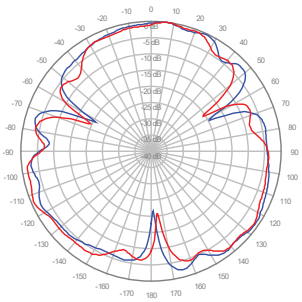
Azimuth



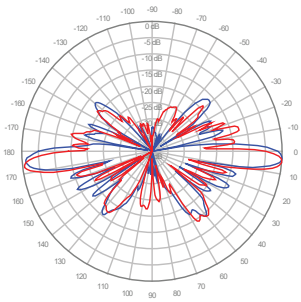
Elevation

P6, 4° TILT

+45°

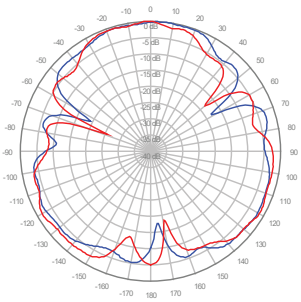


Azimuth

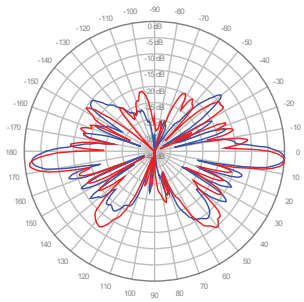


Elevation

-45°



Azimuth



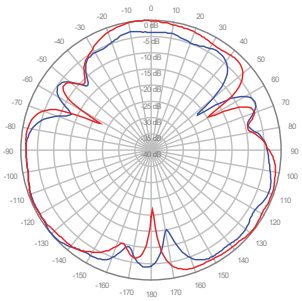
Elevation

6U6VT360X12Fxys5

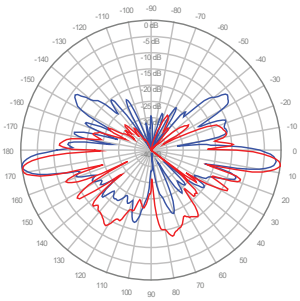
3600 MHz
4000 MHz

P1, 6° TILT

+45°

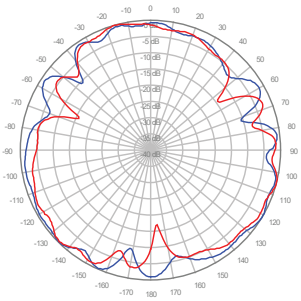


Azimuth

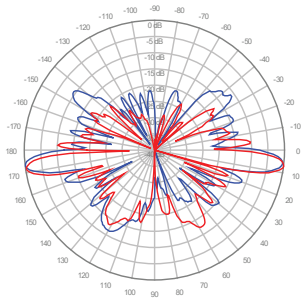


Elevation

-45°



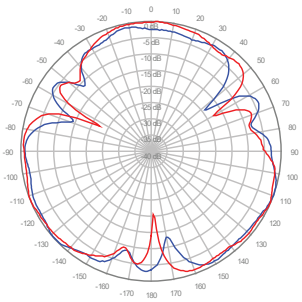
Azimuth



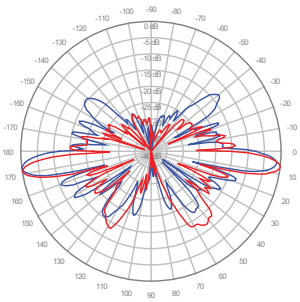
Elevation

P2, 6° TILT

+45°

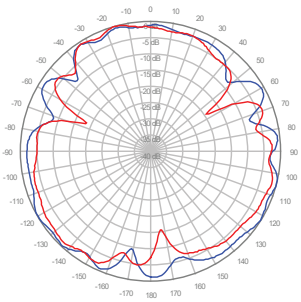


Azimuth

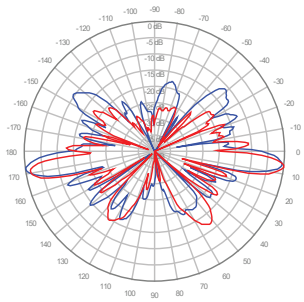


Elevation

-45°



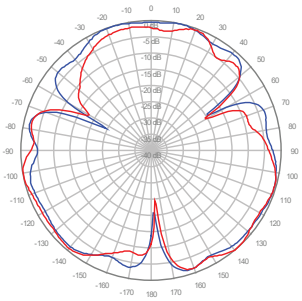
Azimuth



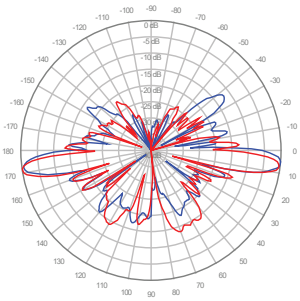
Elevation

P3, 6° TILT

+45°

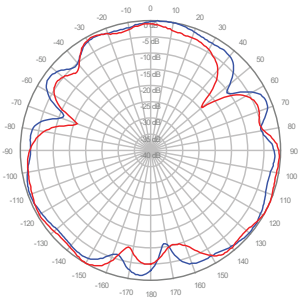


Azimuth

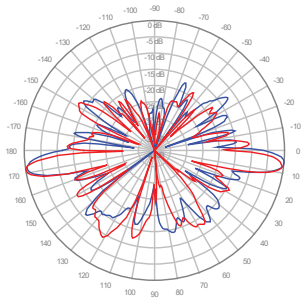


Elevation

-45°



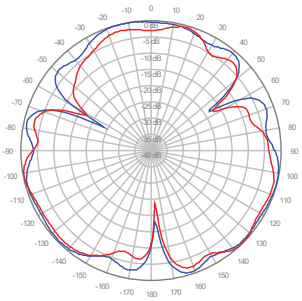
Azimuth



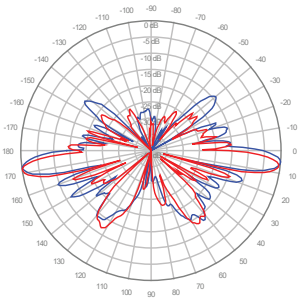
Elevation

P4, 6° TILT

+45°

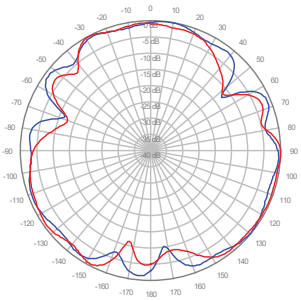


Azimuth

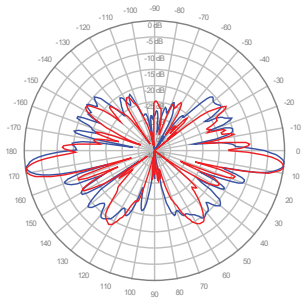


Elevation

-45°



Azimuth



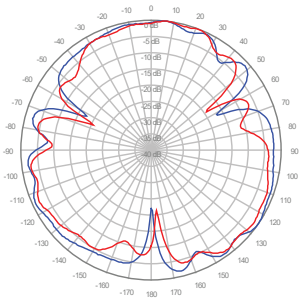
Elevation

6U6VT360X12Fxys5

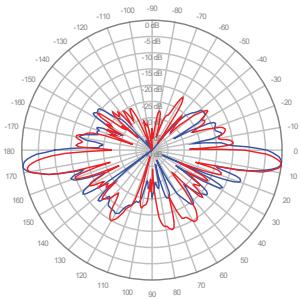
3600 MHz
4000 MHz

P5, 6° TILT

+45°

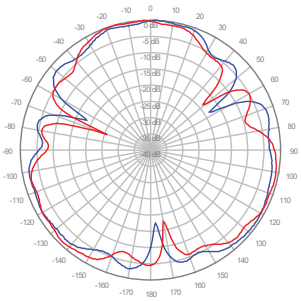


Azimuth

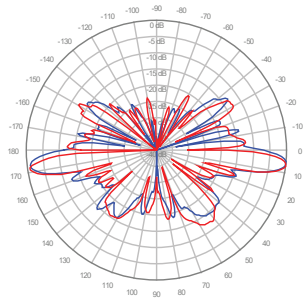


Elevation

-45°



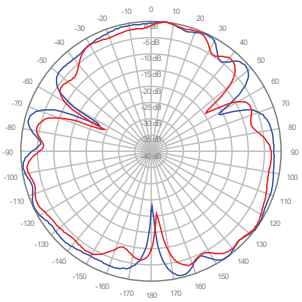
Azimuth



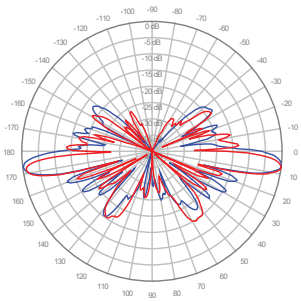
Elevation

P6, 6° TILT

+45°

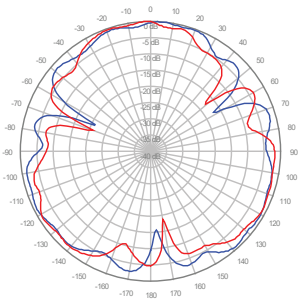


Azimuth

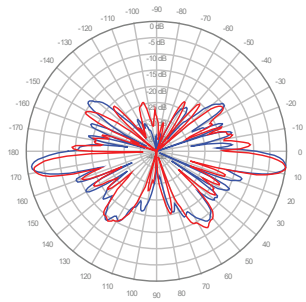


Elevation

-45°



Azimuth



Elevation