Amphenol ANTENNA SOLUTIONS

16-Port Canister Antenna

(4x) 1695-2700 | (4x) 3300-4200 MHz

OMNI | 23.9 IN | FIXED TILT

4U4VT360X06Fxys4

Features

- Pseudo omni configuration with 16 connectors
- Ideal for multi-carrier or MIMO deployments
- Broadband networks 1695-2700 and 3300-4200 MHz
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR
- Can be ordered with an integrated GPS unit
- Available for order with a grey, brown or black radome

PRODUCT OVERVIEW				
	Frequency Range (MHz)	(4x) 1695-2700	(4x) 3300-4200	Optional GPS BAND 1575.42 ± 10
	Array	Y1, Y2, Y3, Y4	P1, P2, P3, P4	---
	Connector	8 PORTS	8 PORTS	1 PORT
	Polarization	XPOL	XPOL	RIGHT HAND CIRCULAR
	Azimuth Beamwidth (avg)	360°	360°	---
	Electrical Downtilt	0°, 2°, 4°, 6°	0°, 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)	3200 WATTS		---
	Connector Type	(16x) 4.3-10 FEMALE		(1x) N-TYPE FEMALE
	Dimensions	608 x Ø371 mm (23.9 x Ø14.6 in)		---
	Radome Color Options	GREY, BROWN or BLACK		---

ELECTRICAL SPECIFICATIONS

			Y1	Y2	Y3	Y4
Frequency Range		MHz	(4x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(4x) ±45°			
Gain	BASTA	dBi	9.5 ± 0.6	9.5 ± 0.4	9.4 ± 0.5	9.8 ± 0.6
	MAX	dBi	10.1	9.9	9.9	10.4
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	20.5° ± 1.8°	19.2° ± 1.0°	18.3° ± 1.6°	14.8° ± 1.8°
Electrical Downtilt		degrees	(x) 0°, 2°, 4°, 6°, refer to Ordering Options for available tilt combinations			
Impedance		Ohms	50Ω			
VSWR		---	≤ 1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153			
Upper Sidelobe Suppression		dB	> 17.5	> 17	> 15.4	> 10.5
Isolation	Intraband	dB	> 24			
	Interband	dB	> 28 same band; > 30 different bands			

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.

4U4VT360X06Fxys4

ELECTRICAL SPECIFICATIONS

			P1	P2	P3	P4
Frequency Range		MHz	(4x) 3300-4200			
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200	
Polarization		---	(4x) ±45°			
Gain	BASTA	dBi	10.5 ± 1.1	11.1 ± 0.9	11.9 ± 1.0	
	MAX	dBi	11.6	12.0	12.9	
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	
Elevation Beamwidth (3 dB)		degrees	7.9° ± 0.6°	7.7° ± 0.6°	7.2° ± 0.5°	
Electrical Downtilt		degrees	(y) 0°, 2°, 4°, 6°, refer to Ordering Options for available tilt combinations			
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	> 24			
	Interband	dB	> 28 same band; > 30 different bands			

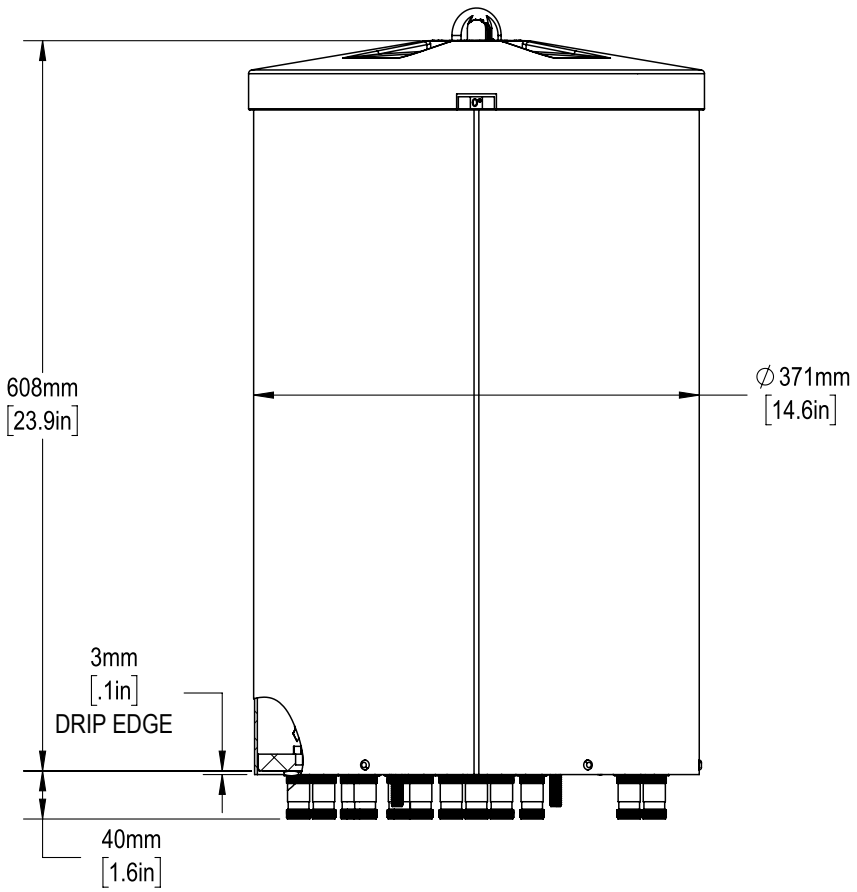
INTEGRATED GPS UNIT OPTIONAL

Frequency Range	1575.42 MHz ± 10 MHz
Polarization	Right Hand Circular
Nominal Gain	3 dBic at 90°; -2 dBic at 20°
Current Draw	22 mA @ 5V
Out-of-Band Rejection	> 55 dB at 1559 MHz; > 60 dB at 1625 MHz
Amplifier Gain	28 dB ± 3 dB
Nominal Impedance	50 ohm
Noise Figure	3.9 dB
DC Voltage	2.7-5.5 VDC
VSWR	< 2.0:1
Connector	N-Type Female

4U4VT360X06Fxys4

MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	608 (23.9)
	Diameter		mm (in)	371 (14.6)
Net Weight - Antenna Only			kg (lbs)	13.2 (29)
Windload		Calculation	km/h (mph)	160 (100)
		Frontal	N (lbf)	191 (43)
Survival Wind Speed			km/h (mph)	241 (150)
Wind Area			m^2 (ft^2)	0.22 (2.4)
Volume			m^3 (ft^3)	0.07 (2.3)
Connector		Type	---	(16x) 4.3-10 Female; (1x) N-Type Female with optional GPS Unit
		Position	---	Bottom
Radome Color			---	Grey (RAL 7035), Brown (RAL 8022), Black (RAL 9011)
Lightning Protection (Grounding Type)			---	Direct Ground

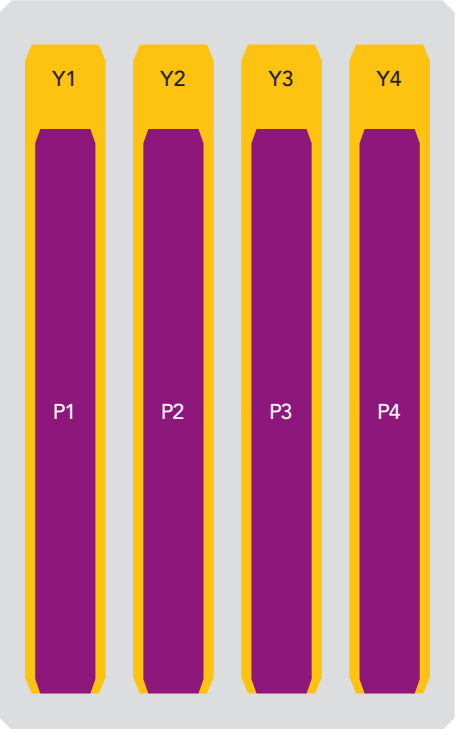


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

4U4VT360X06Fxys4

ARRAY LAYOUT Topology

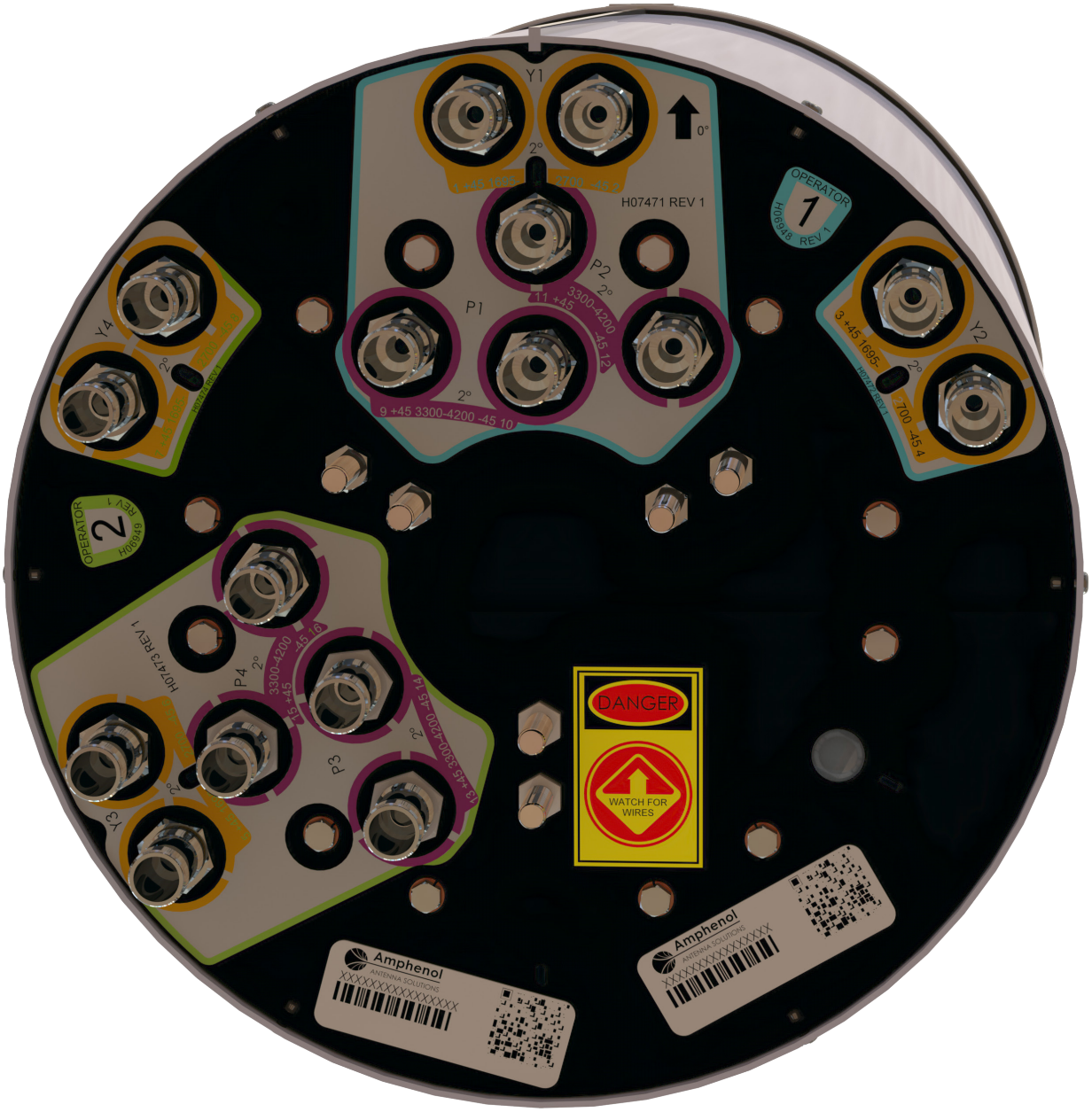
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
1695-2700 MHz	Y1	1-2	(2x) 4.3-10 Female
1695-2700 MHz	Y2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	Y3	5-6	(2x) 4.3-10 Female
1695-2700 MHz	Y4	7-8	(2x) 4.3-10 Female
3300-4200 MHz	P1	9-10	(2x) 4.3-10 Female
3300-4200 MHz	P2	11-12	(2x) 4.3-10 Female
3300-4200 MHz	P3	13-14	(2x) 4.3-10 Female
3300-4200 MHz	P4	15-16	(2x) 4.3-10 Female
Optional GPS Band 1575.42 MHz	---	17	(1x) N-Type Female



The illustration is not shown to scale.

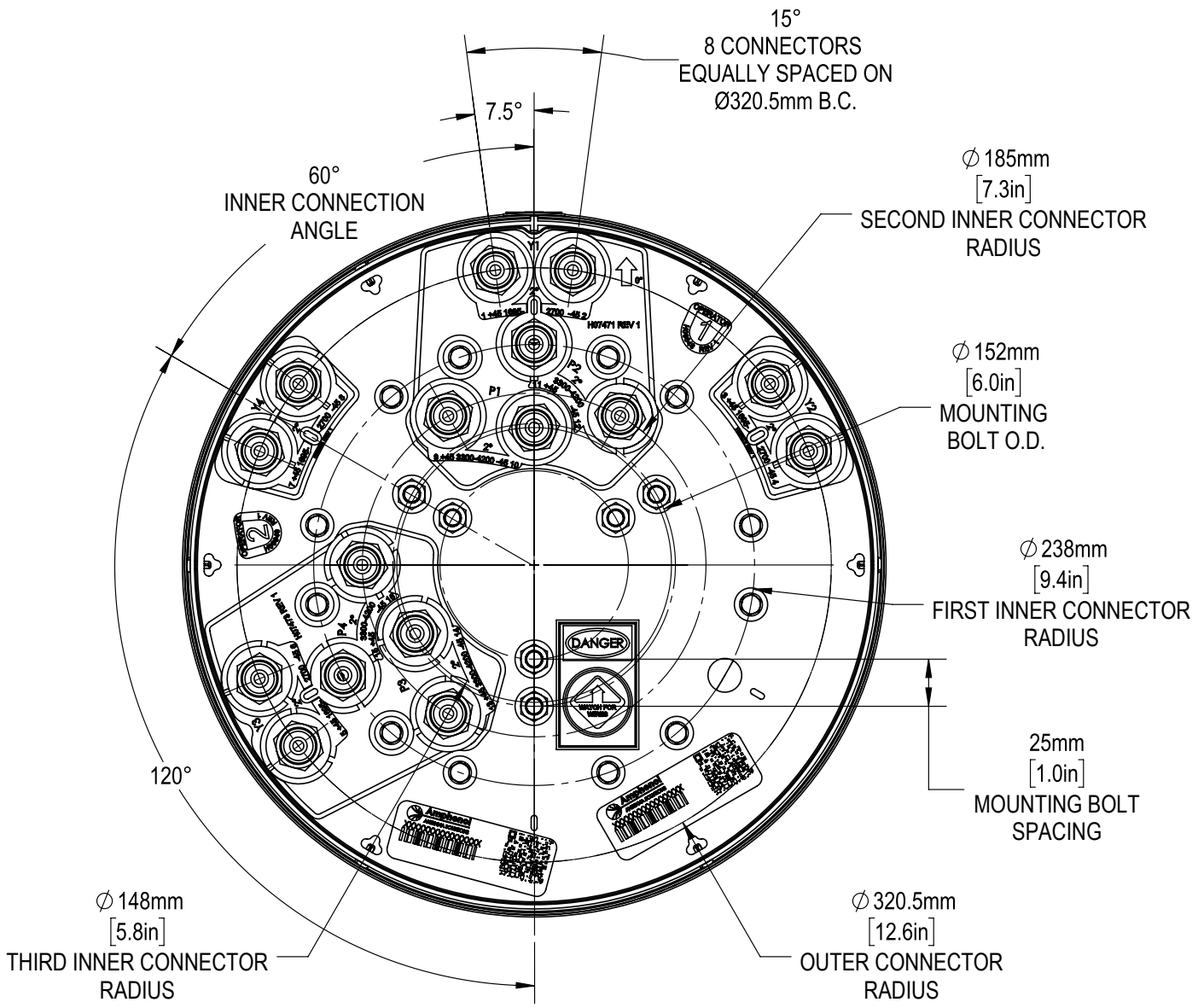
4U4VT360X06Fxys4

BOTTOM VIEW - LABELING



4U4VT360X06Fxys4

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.

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.

4U4VT360X06Fxys4

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.

4U4VT360X06Fxys4

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	GPS
4U	4V	T	360	X	06	F	xy	s	4	BK BR	-GPS
(4x) 1695-2700	(4x) 3300-4200	Tri-Sector	360°	XPOL	0.6 meters	Fixed Tilt	These letters are placehold-ers for fixed tilt options. Refer to Electrical Specifications for available tilt options.	4.3-10 Connector	Generation 4 enhanced mechanical package	BK indicates a Black radome. BR indicates a Brown radome. The default radome color is Grey. No letters are required for a Grey radome.	Indicates an inte-grated GPS unit

ORDERING OPTIONS Select from the following ordering options

SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND		SELECT ANTENNA TYPE	
	1695-2700 MHz	3300-4200 MHz	WITHOUT GPS UNIT	WITH GPS UNIT
Grey, RAL 7035	0°	0°	4U4VT360X06F00s4	4U4VT360X06F00s4-GPS
	2°	2°	4U4VT360X06F22s4	4U4VT360X06F22s4-GPS
	2°	4°	4U4VT360X06F24s4	---
	2°	6°	4U4VT360X06F26s4	---
	4°	2°	4U4VT360X06F42s4	---
	4°	4°	4U4VT360X06F44s4	4U4VT360X06F44s4-GPS
	4°	6°	4U4VT360X06F46s4	---
	6°	2°	4U4VT360X06F62s4	---
	6°	4°	4U4VT360X06F64s4	---
	6°	6°	4U4VT360X06F66s4	4U4VT360X06F66s4-GPS
	Y1 & Y2 = 6°, Y3 & Y4 = 2°	2°	4U4VT360X06FAAs4	4U4VT360X06FAAs4-GPS
	Y1 & Y2 = 4°, Y3 & Y4 = 2°	2°	4U4VT360X06FBBs4	4U4VT360X06FBBs4-GPS
	Y1 & Y2 = 6°, Y3 & Y4 = 4°	2°	4U4VT360X06FCCs4	4U4VT360X06FCCs4-GPS

4U4VT360X06Fxys4

ORDERING OPTIONS Select from the following ordering options

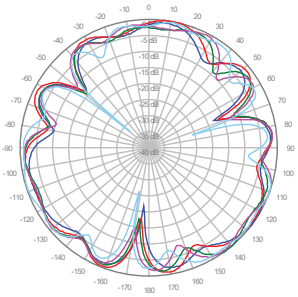
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND		SELECT ANTENNA TYPE	
	1695-2700 MHz	3300-4200 MHz	WITHOUT GPS UNIT	WITH GPS UNIT
Brown RAL 8022	0°	0°	4U4VT360X06F00s4BR	4U4VT360X06F00s4BR-GPS
	2°	2°	4U4VT360X06F22s4BR	4U4VT360X06F22s4BR-GPS
	2°	4°	4U4VT360X06F24s4BR	---
	2°	6°	4U4VT360X06F26s4BR	---
	4°	2°	4U4VT360X06F42s4BR	---
	4°	4°	4U4VT360X06F44s4BR	4U4VT360X06F44s4BR-GPS
	4°	6°	4U4VT360X06F46s4BR	---
	6°	2°	4U4VT360X06F62s4BR	---
	6°	4°	4U4VT360X06F64s4BR	---
	6°	6°	4U4VT360X06F66s4BR	4U4VT360X06F66s4BR-GPS
	Y1 & Y2 = 6°, Y3 & Y4 = 2°	2°	4U4VT360X06FAAs4BR	4U4VT360X06FAAs4BR-GPS
	Y1 & Y2 = 4°, Y3 & Y4 = 2°	2°	4U4VT360X06FBBs4BR	4U4VT360X06FBBs4BR-GPS
	Y1 & Y2 = 6°, Y3 & Y4 = 4°	2°	4U4VT360X06FCCs4BR	4U4VT360X06FCCs4BR-GPS
Black RAL 9011	0°	0°	4U4VT360X06F00s4BK	4U4VT360X06F00s4BK-GPS
	2°	2°	4U4VT360X06F22s4BK	4U4VT360X06F22s4BK-GPS
	2°	4°	4U4VT360X06F24s4BK	---
	2°	6°	4U4VT360X06F26s4BK	---
	4°	2°	4U4VT360X06F42s4BK	---
	4°	4°	4U4VT360X06F44s4BK	4U4VT360X06F44s4BK-GPS
	4°	6°	4U4VT360X06F46s4BK	---
	6°	2°	4U4VT360X06F62s4BK	---
	6°	4°	4U4VT360X06F64s4BK	---
	6°	6°	4U4VT360X06F66s4BK	4U4VT360X06F66s4BK-GPS
	Y1 & Y2 = 6°, Y3 & Y4 = 2°	2°	4U4VT360X06FAAs4BK	4U4VT360X06FAAs4BK-GPS
	Y1 & Y2 = 4°, Y3 & Y4 = 2°	2°	4U4VT360X06FBBs4BK	4U4VT360X06FBBs4BK-GPS
	Y1 & Y2 = 6°, Y3 & Y4 = 4°	2°	4U4VT360X06FCCs4BK	4U4VT360X06FCCs4BK-GPS

4U4VT360X06Fxys4

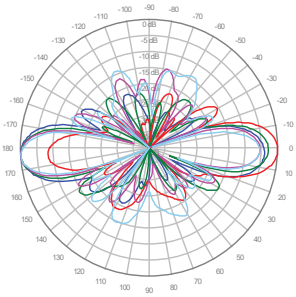
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 2° TILT

+45°

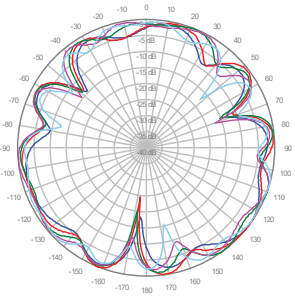


Azimuth

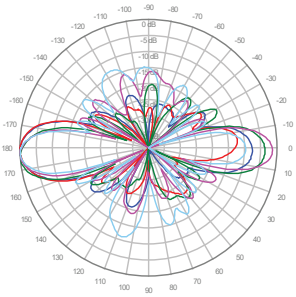


Elevation

-45°



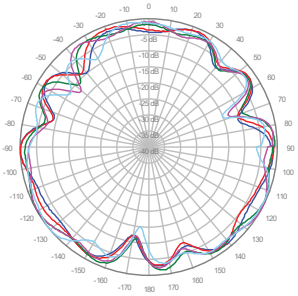
Azimuth



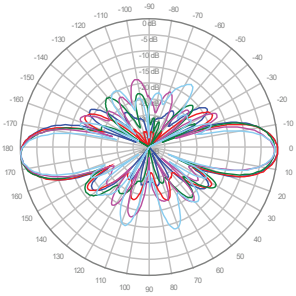
Elevation

Y2, 2° TILT

+45°

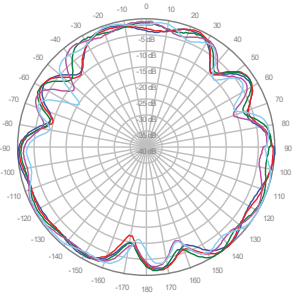


Azimuth

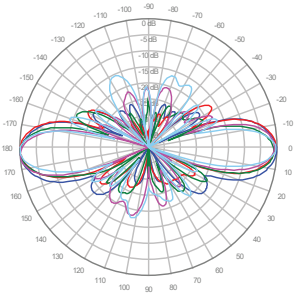


Elevation

-45°



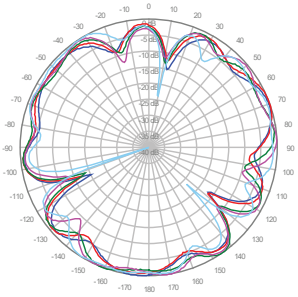
Azimuth



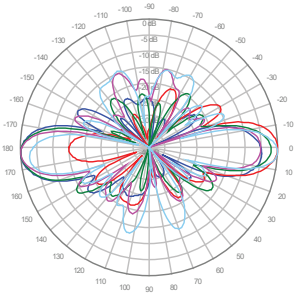
Elevation

Y3, 2° TILT

+45°

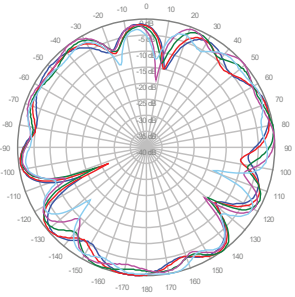


Azimuth

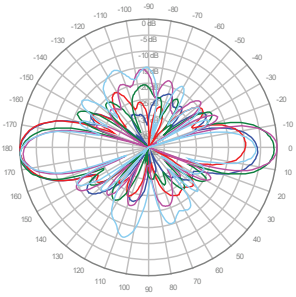


Elevation

-45°



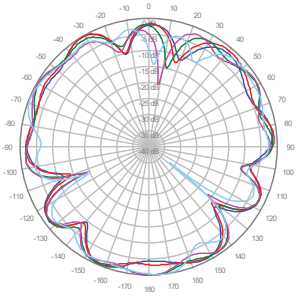
Azimuth



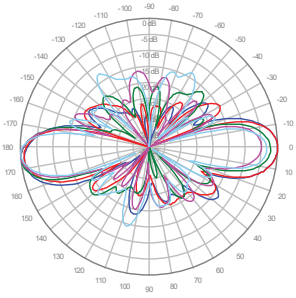
Elevation

Y4, 2° TILT

+45°

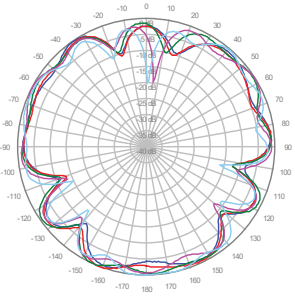


Azimuth

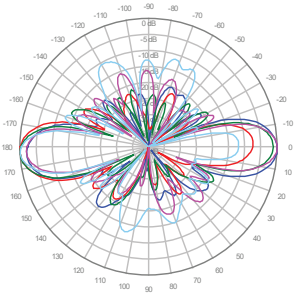


Elevation

-45°



Azimuth



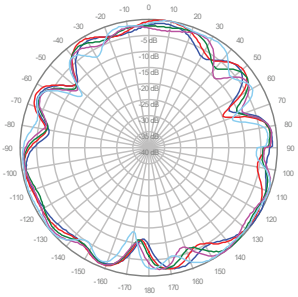
Elevation

4U4VT360X06Fxys4

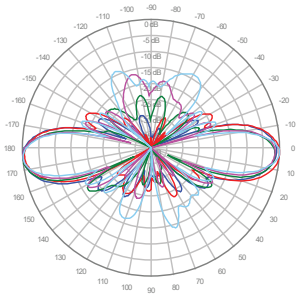
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 4° TILT

+45°

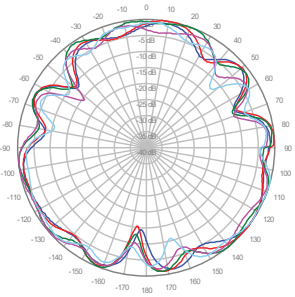


Azimuth

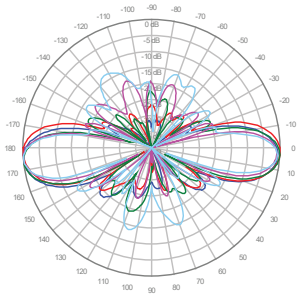


Elevation

-45°



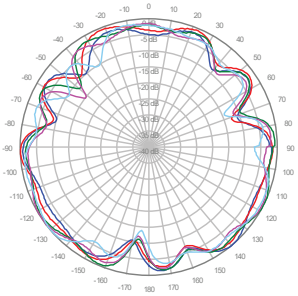
Azimuth



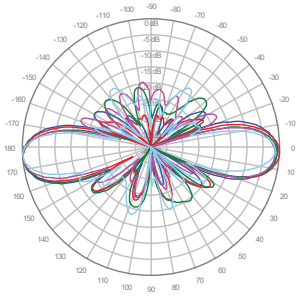
Elevation

Y2, 4° TILT

+45°

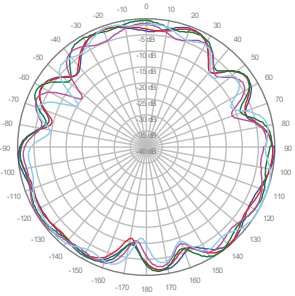


Azimuth

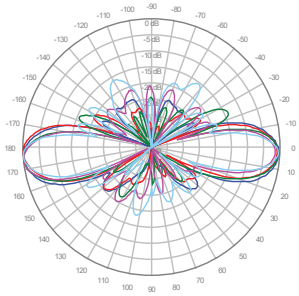


Elevation

-45°



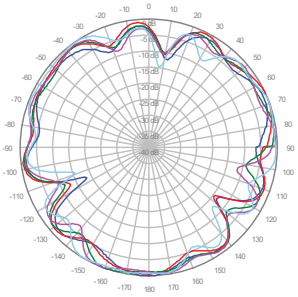
Azimuth



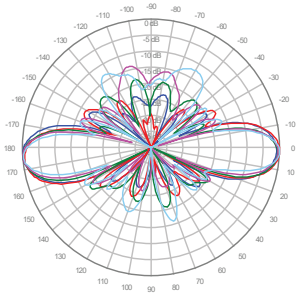
Elevation

Y3, 4° TILT

+45°

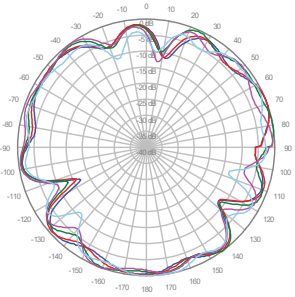


Azimuth

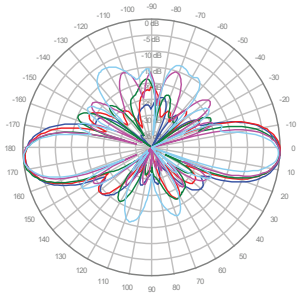


Elevation

-45°



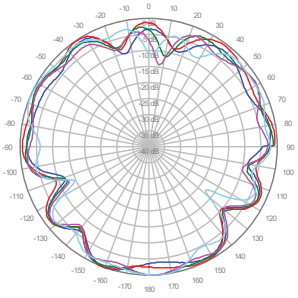
Azimuth



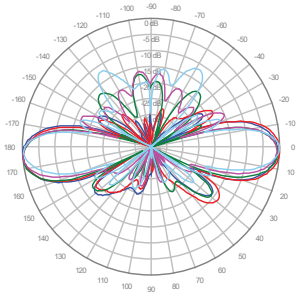
Elevation

Y4, 4° TILT

+45°

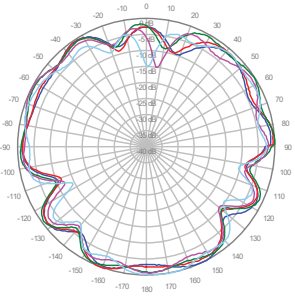


Azimuth

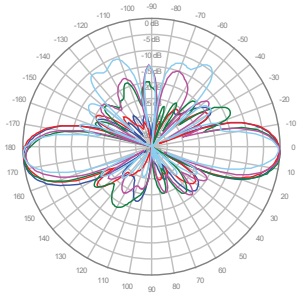


Elevation

-45°



Azimuth



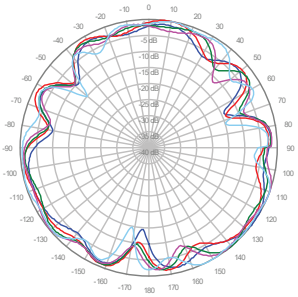
Elevation

4U4VT360X06Fxys4

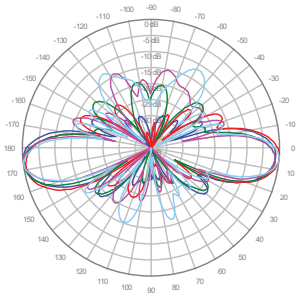
1800 MHz
1900 MHz
2100 MHz
2300 MHz
2600 MHz

Y1, 6° TILT

+45°

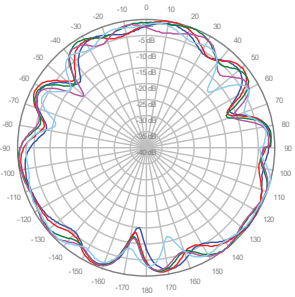


Azimuth

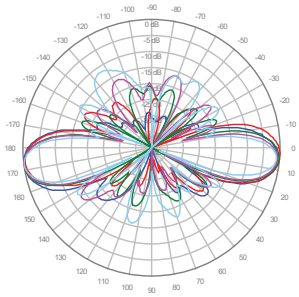


Elevation

-45°



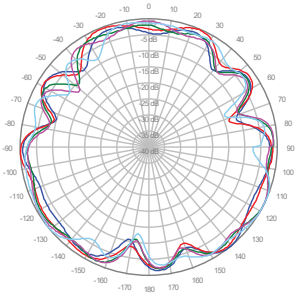
Azimuth



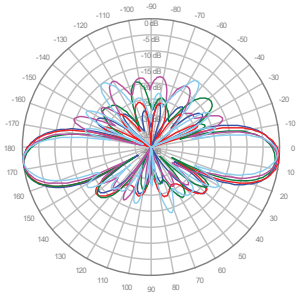
Elevation

Y2, 6° TILT

+45°

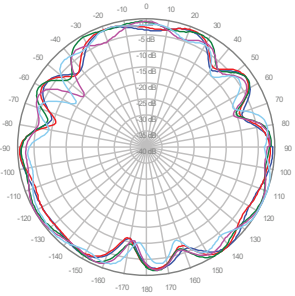


Azimuth

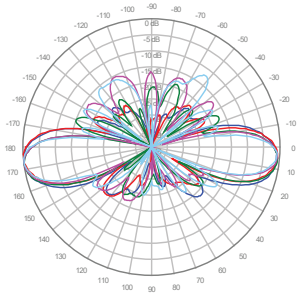


Elevation

-45°



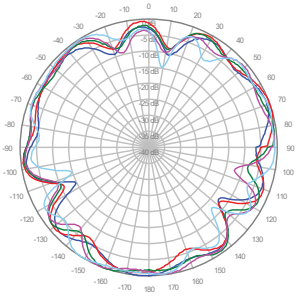
Azimuth



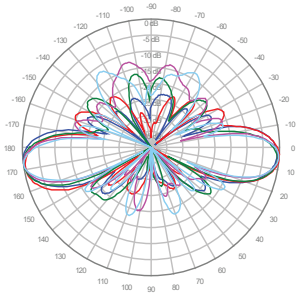
Elevation

Y3, 6° TILT

+45°

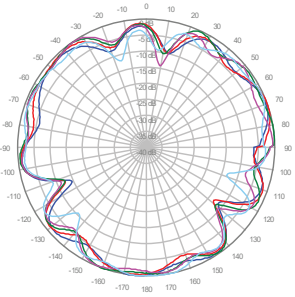


Azimuth

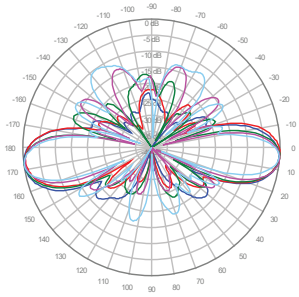


Elevation

-45°



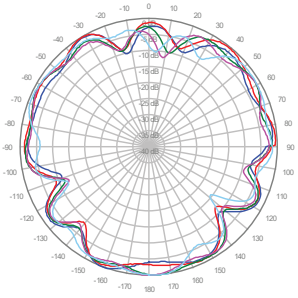
Azimuth



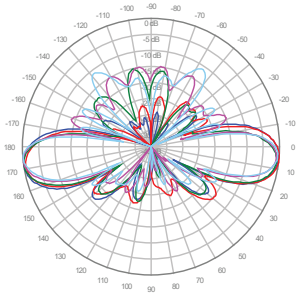
Elevation

Y4, 6° TILT

+45°

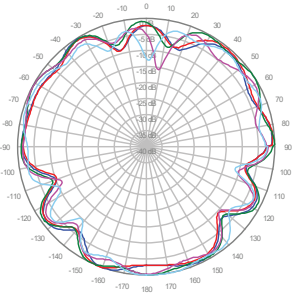


Azimuth

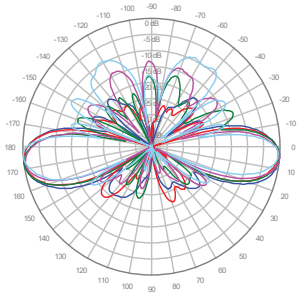


Elevation

-45°



Azimuth



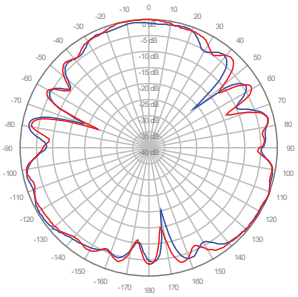
Elevation

4U4VT360X06Fxys4

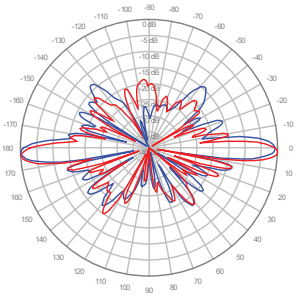
3600 MHz
4000 MHz

P1, 2° TILT

+45°

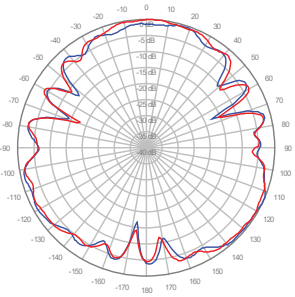


Azimuth

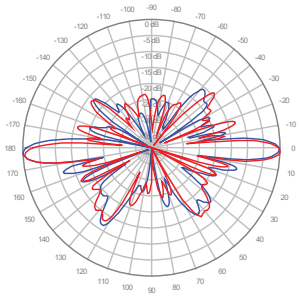


Elevation

-45°



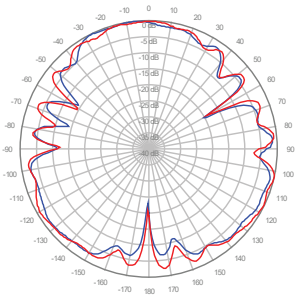
Azimuth



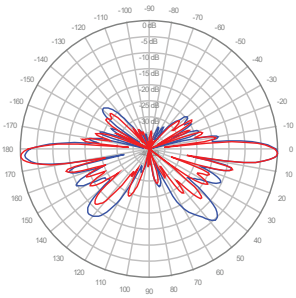
Elevation

P2, 2° TILT

+45°

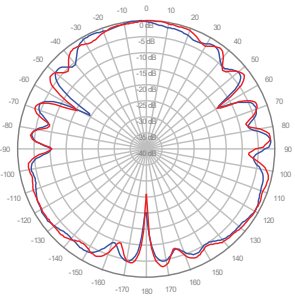


Azimuth

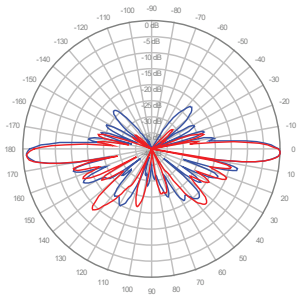


Elevation

-45°



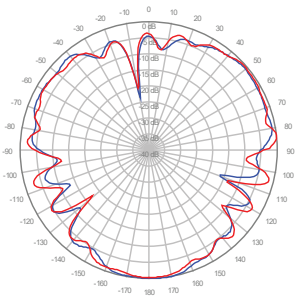
Azimuth



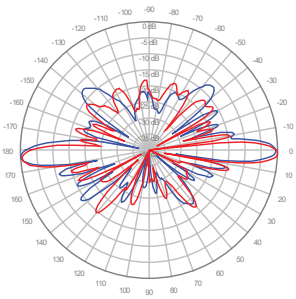
Elevation

P3, 2° TILT

+45°

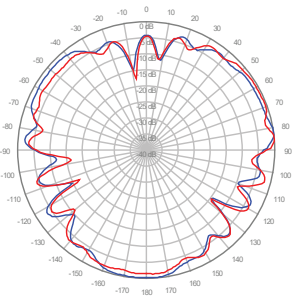


Azimuth

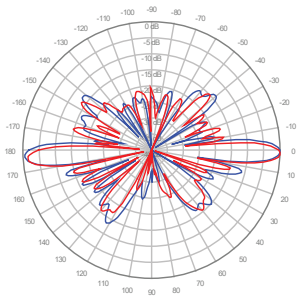


Elevation

-45°



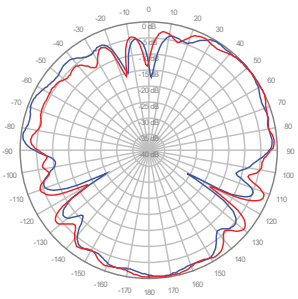
Azimuth



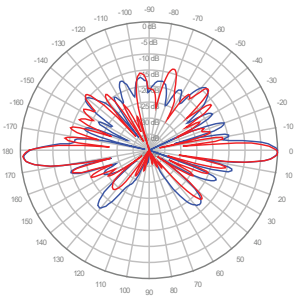
Elevation

P4, 2° TILT

+45°

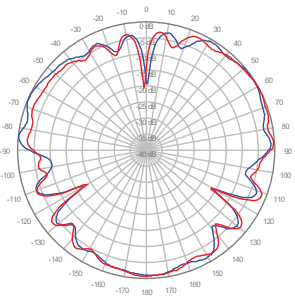


Azimuth

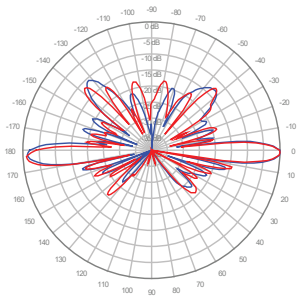


Elevation

-45°



Azimuth



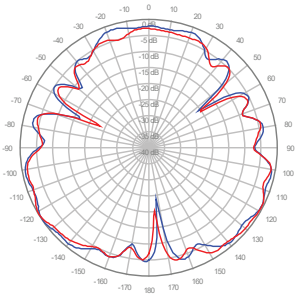
Elevation

4U4VT360X06Fxys4

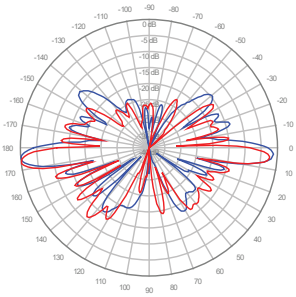
3600 MHz
4000 MHz

P1, 4° TILT

+45°

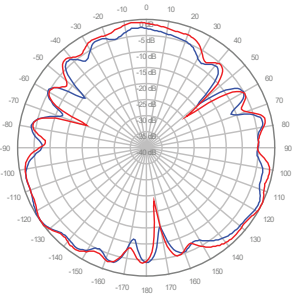


Azimuth

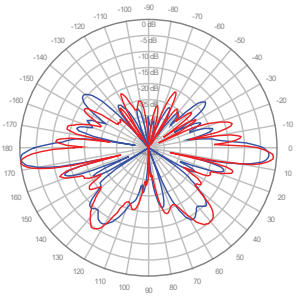


Elevation

-45°



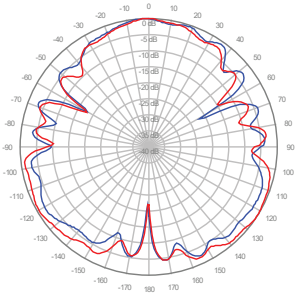
Azimuth



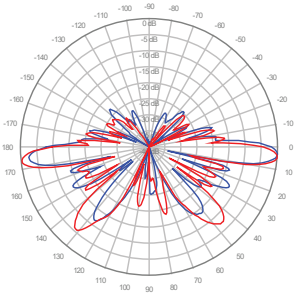
Elevation

P2, 4° TILT

+45°

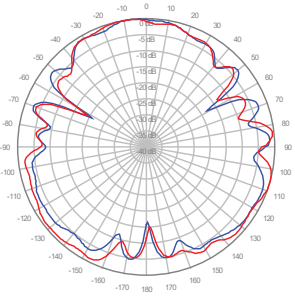


Azimuth

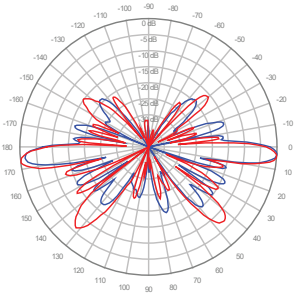


Elevation

-45°



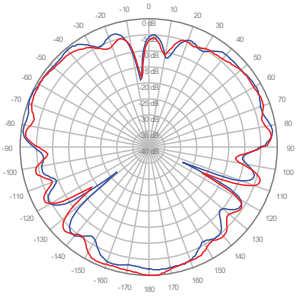
Azimuth



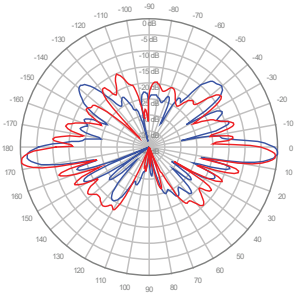
Elevation

P3, 4° TILT

+45°

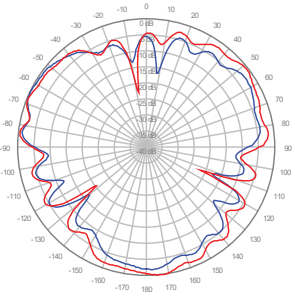


Azimuth

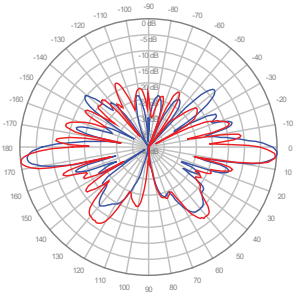


Elevation

-45°



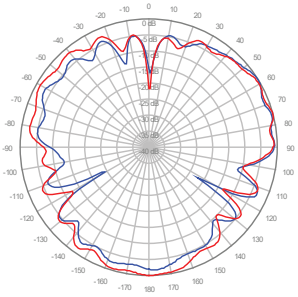
Azimuth



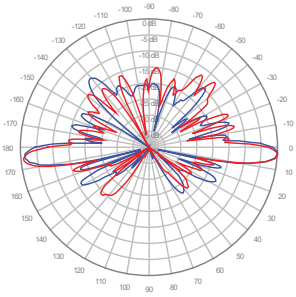
Elevation

P4, 4° TILT

+45°

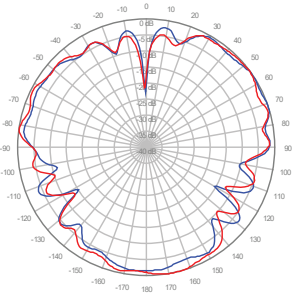


Azimuth

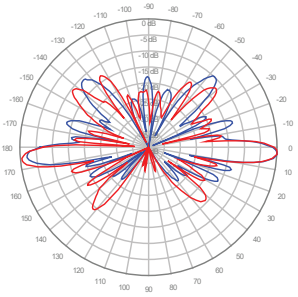


Elevation

-45°



Azimuth



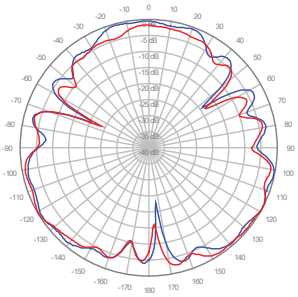
Elevation

4U4VT360X06Fxys4

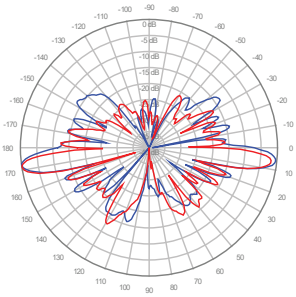
3600 MHz
4000 MHz

P1, 6° TILT

+45°

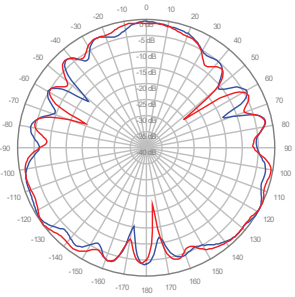


Azimuth

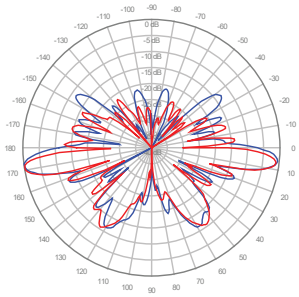


Elevation

-45°



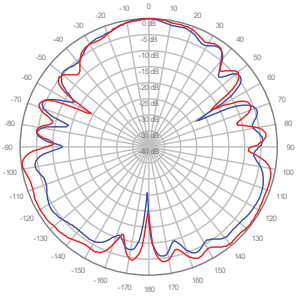
Azimuth



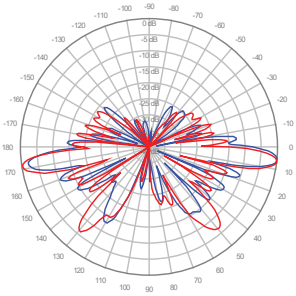
Elevation

P2, 6° TILT

+45°

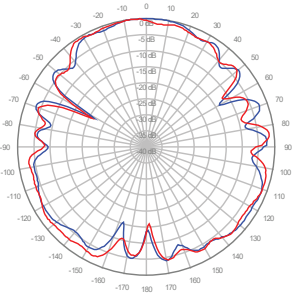


Azimuth

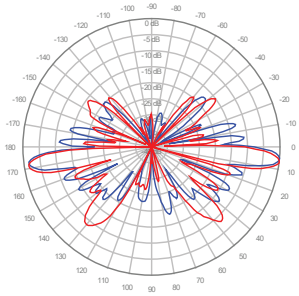


Elevation

-45°



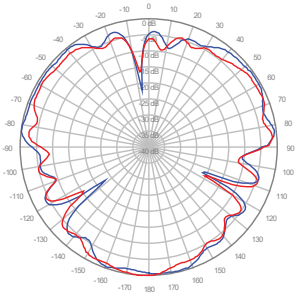
Azimuth



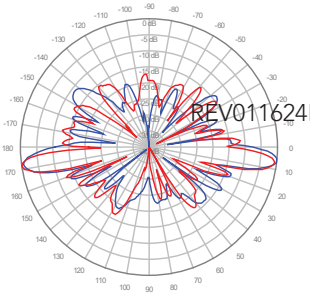
Elevation

P3, 6° TILT

+45°

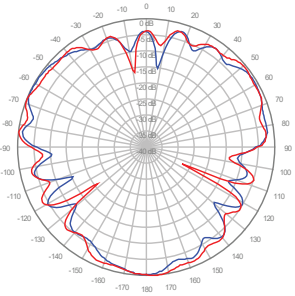


Azimuth

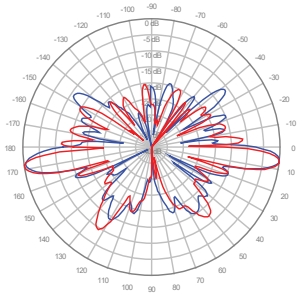


Elevation

-45°



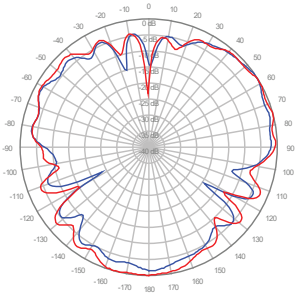
Azimuth



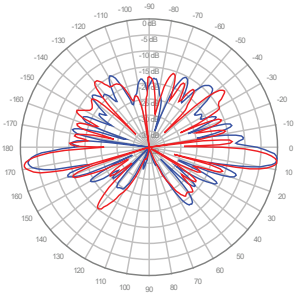
Elevation

P4, 6° TILT

+45°

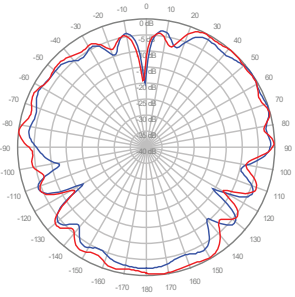


Azimuth

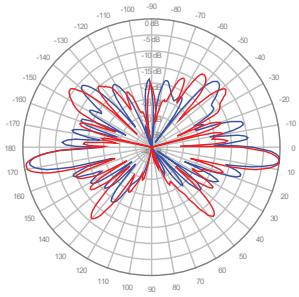


Elevation

-45°



Azimuth



Elevation