20-Port Canister Antenna

(2x) 696-960 | (6x) 1695-2700 | (2x) 3300-4200 MHz

OMNI | 24 IN | FIXED TILT

2C6U2VT360X06Fwxys4

Features

- Pseudo omni configuration with 20 connectors
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 696-960, 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

PRODUCT OVERVIEW				
Frequency Range (MHz)	(2x) 696-960	(6x) 1695-2700	(2x) 3300-4200	Optional GPS BAND 1575.42 ± 10
Array	R1 R2	Y1 Y2 Y3 Y4 Y5 Y6	P1 P2	---
Connector	4 PORTS	12 PORTS	4 PORTS	1 PORT
Polarization	XPOL	XPOL	XPOL	RIGHT HAND CIRCULAR
Azimuth Beamwidth (avg)	360°	360°	360°	---
Electrical Downtilt	0°	0°, 2°, 4°, 6°	0°	---
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)	6000 WATTS			---
Connector Type	(20x) 4.3-10 FEMALE			(1x) N-TYPE FEMALE
Dimensions	609 x Ø371 mm (24.0 x Ø14.6 in)			---
Radome Color Options	GREY, BROWN or BLACK			---

ELECTRICAL SPECIFICATIONS			R1	R2
Frequency Range		MHz	(2x) 696-960	
Frequency Sub-Range		MHz	696-806	806-960
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	4.4 ± 0.7	4.3 ± 1.3
	MAX	dBi	5.1	5.6
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	75.1° ± 40.7°	71.3° ± 37.8°
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	

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.

2C6U2VT360X06Fwxys4

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	5.8 ± 0.8	5.8 ± 0.9	5.9 ± 1.2	7.2 ± 1.0		
	MAX	dBi	6.6	6.7	7.1	8.2		
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°		
Elevation Beamwidth (3 dB)		degrees	38.4° ± 12.9°	36.8° ± 14.7°	36.8° ± 13.0°	30.5° ± 7.9°		
Electrical Downtilt		degrees	(x) 0°, 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	N/A	N/A	N/A		
Isolation	Intraband	dB	> 25					
	Interband	dB	> 28					

ELECTRICAL SPECIFICATIONS			P1	P2
Frequency Range		MHz	(2x) 3300-4200	
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	8.4 ± 1.4	10.0 ± 1.4
	MAX	dBi	9.8	11.4
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	19.3 ± 2.3°	18.1 ± 3.2°
Electrical Downtilt		degrees	(y) 0°	
Impedance		Ohms	50Ω	
VSWR		---	≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153	
Upper Sidelobe Suppression		dB	N/A	
Isolation	Intraband	dB	> 25	
	Interband	dB	> 28	

2C6U2VT360X06Fwxys4

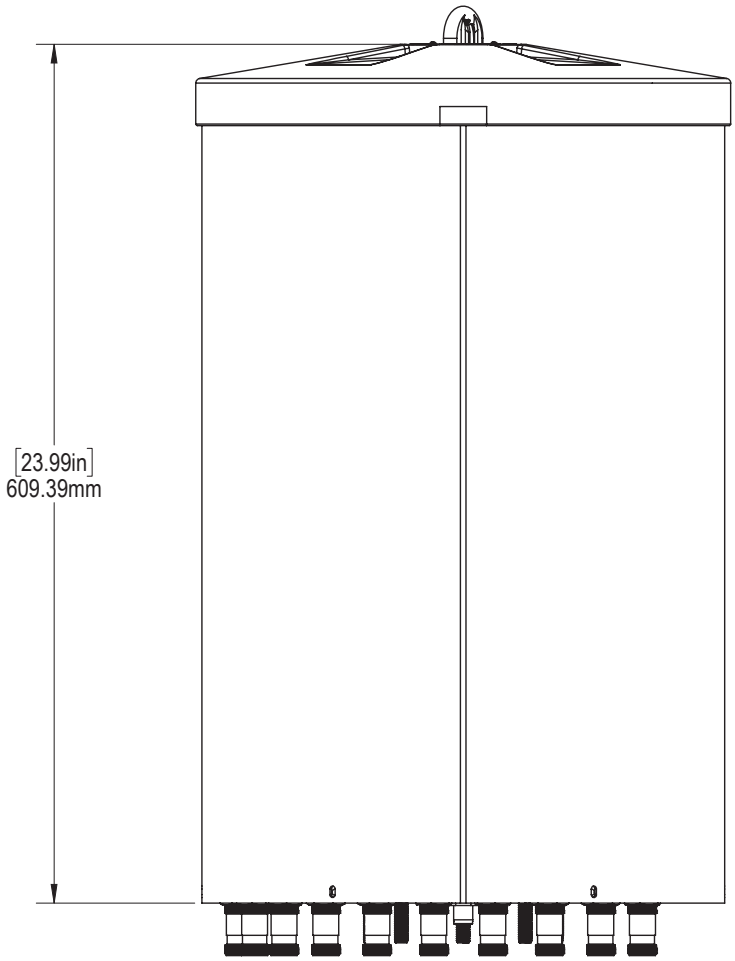
INTEGRATED GPS UNIT OPTIONAL

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

2C6U2VT360X06Fwxys4

MECHANICAL SPECIFICATIONS

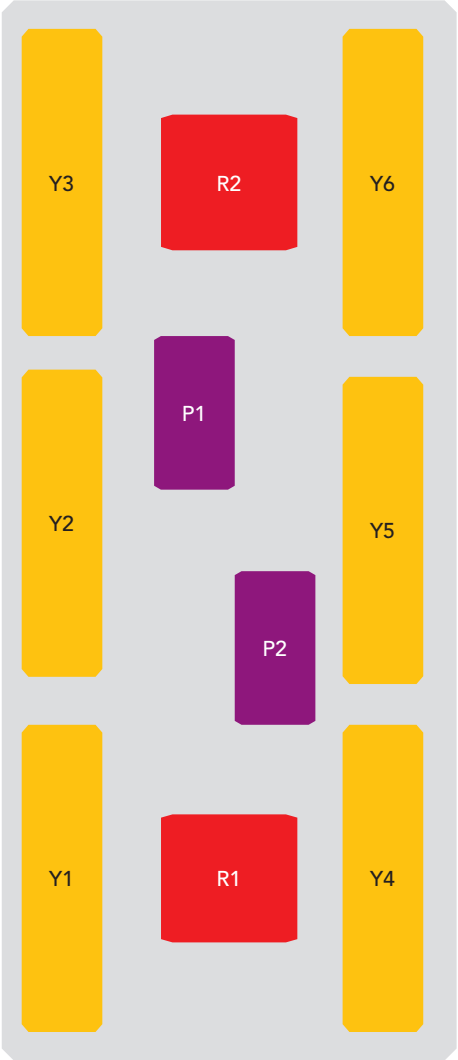
Antenna	Height		mm (in)	609 (24.0)
	Diameter		mm (in)	371 (14.6)
Net Weight - Antenna Only			kg (lbs)	12.7 (28.0)
Windload		Calculation	km/h (mph)	160 (100)
		Frontal	N (lbf)	191 (43)
Survival Wind Speed			km/h (mph)	241 (150)
Wind Area			m^2 (ft^2)	0.22 (2.4)
Volume			m^3 (ft^3)	0.07 (2.3)
Connector		Type	---	(20x) 4.3-10 Female; (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



2C6U2VT360X06Fwxys4

ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	R1	9-10	(2x) 4.3-10 Female
696-960 MHz	R2	15-16	(2x) 4.3-10 Female
1695-2700 MHz	Y1	7-8	(2x) 4.3-10 Female
1695-2700 MHz	Y2	5-6	(2x) 4.3-10 Female
1695-2700 MHz	Y3	13-14	(2x) 4.3-10 Female
1695-2700 MHz	Y4	11-12	(2x) 4.3-10 Female
1695-2700 MHz	Y5	19-20	(2x) 4.3-10 Female
1695-2700 MHz	Y6	17-18	(2x) 4.3-10 Female
3300-4200 MHz	P1	1-2	(2x) 4.3-10 Female
3300-4200 MHz	P2	3-4	(2x) 4.3-10 Female
Optional GPS BAND 1575.42 MHz	---	---	(1x) N-Type Female

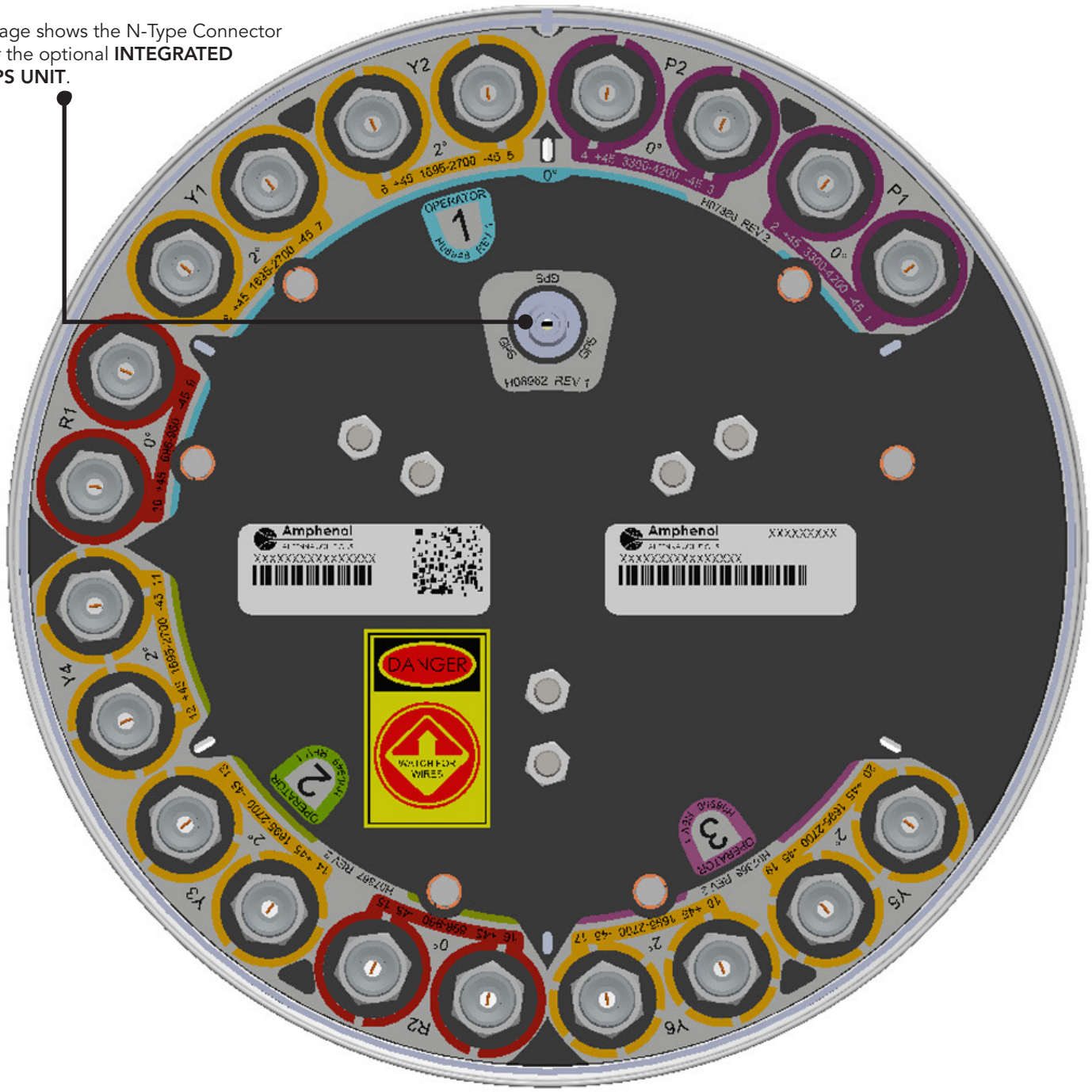


The illustration is not shown to scale.

2C6U2VT360X06Fwxys4

BOTTOM VIEW - LABELING

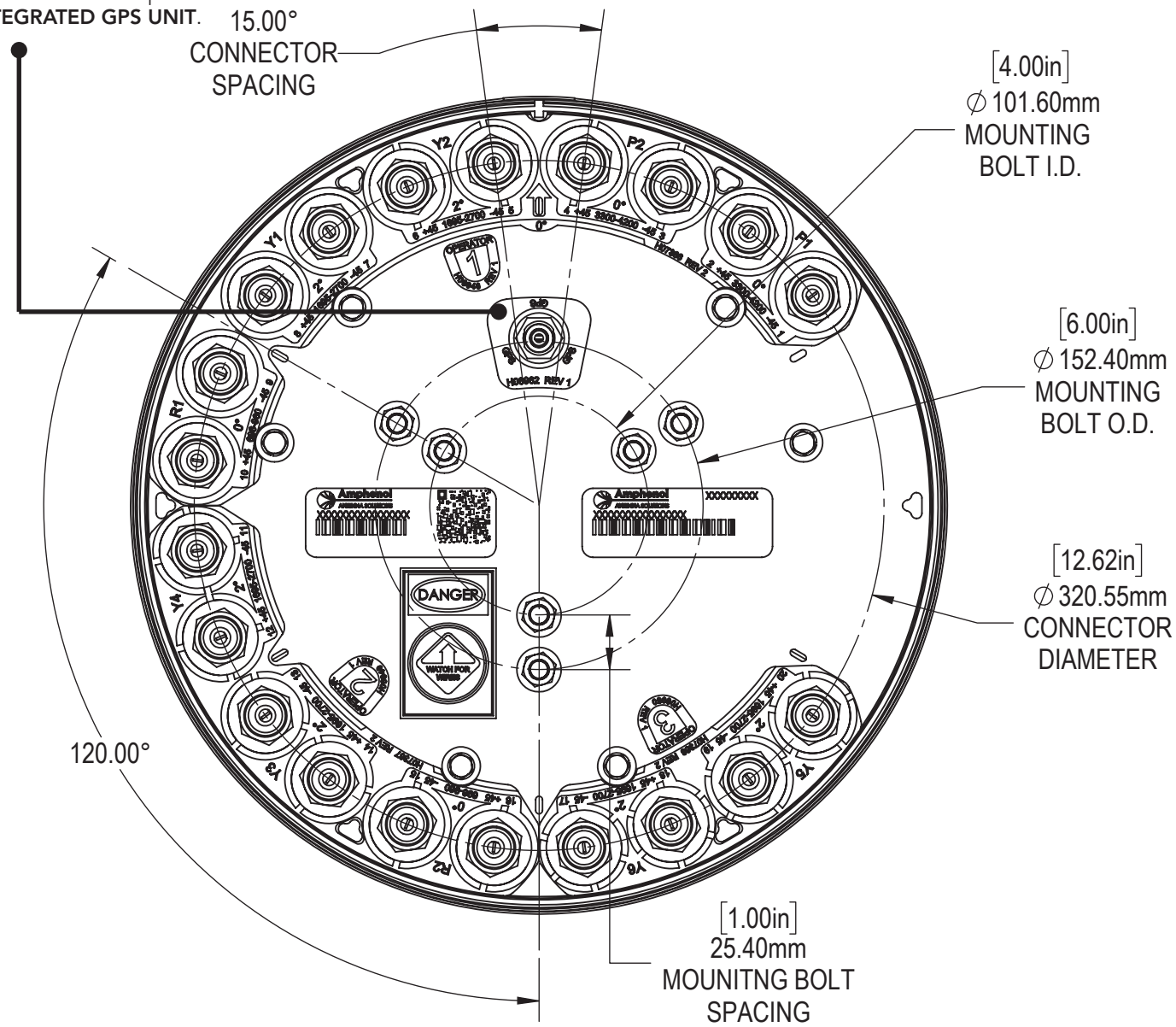
Image shows the N-Type Connector for the optional **INTEGRATED GPS UNIT**.



2C6U2VT360X06Fwxys4

BOTTOM VIEW - CONNECTOR DIAGRAM

Image shows the N-Type Connector for the optional **INTEGRATED GPS UNIT**.



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.

2C6U2VT360X06Fwxys4

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.

2C6U2VT360X06Fwxys4

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
2C	6U	2V	T	360	X	06	F	wxy	s	4	BK BR	-GPS
(2x) 696-960	(6x) 1695-2700	(2x) 3300-4200	Tri-Sector	360°	XPOL	0.6 meters	Fixed Tilt	These letters are placeholders for fixed tilt options. Refer to Electrical Specifications for available tilt options.	4.3-10 Connector	4th generation enhanced mechanical package	BK indicates a Black radome. BR indicates a Brown radome. The default radome color is Grey. No letters are required for a Grey radome.	Indicates an inte-grated GPS unit

ORDERING OPTIONS Select from the following ordering options

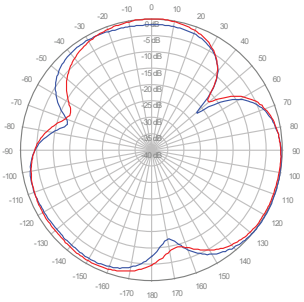
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			SELECT ANTENNA TYPE	
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	WITHOUT GPS UNIT	WITH GPS UNIT
Grey RAL 7035	0°	0°	0°	2C6U2VT360X06F000s4	2C6U2VT360X06F000s4-GPS
	0°	2°	0°	2C6U2VT360X06F020s4	2C6U2VT360X06F020s4-GPS
	0°	4°	0°	2C6U2VT360X06F040s4	2C6U2VT360X06F040s4-GPS
	0°	6°	0°	2C6U2VT360X06F060s4	2C6U2VT360X06F060s4-GPS
Brown RAL 8022	0°	0°	0°	2C6U2VT360X06F000s4BR	2C6U2VT360X06F000s4BR-GPS
	0°	2°	0°	2C6U2VT360X06F020s4BR	2C6U2VT360X06F020s4BR-GPS
	0°	4°	0°	2C6U2VT360X06F040s4BR	2C6U2VT360X06F040s4BR-GPS
	0°	6°	0°	2C6U2VT360X06F060s4BR	2C6U2VT360X06F060s4BR-GPS
Black RAL 9011	0°	0°	0°	2C6U2VT360X06F000s4BK	2C6U2VT360X06F000s4BK-GPS
	0°	2°	0°	2C6U2VT360X06F020s4BK	2C6U2VT360X06F020s4BK-GPS
	0°	4°	0°	2C6U2VT360X06F040s4BK	2C6U2VT360X06F040s4BK-GPS
	0°	6°	0°	2C6U2VT360X06F060s4BK	2C6U2VT360X06F060s4BK-GPS

750 MHz
850 MHz

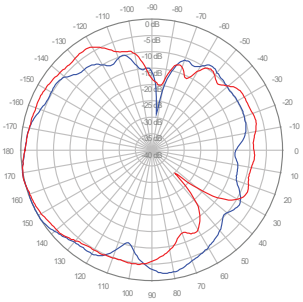
2C6U2VT360X06Fwxys4

R1, 0° TILT

+45°

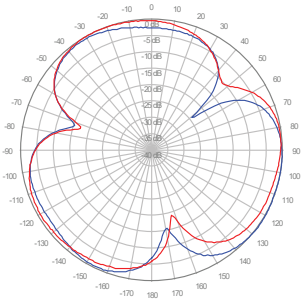


Azimuth

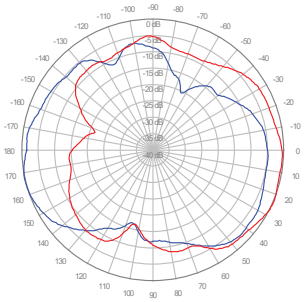


Elevation

-45°



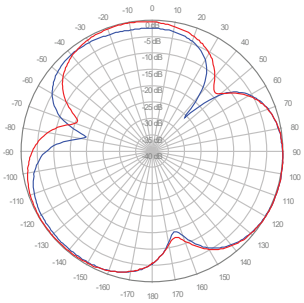
Azimuth



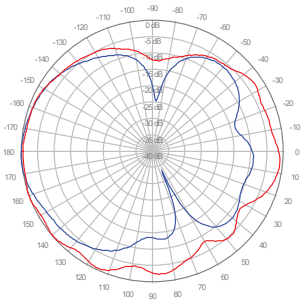
Elevation

R2, 0° TILT

+45°

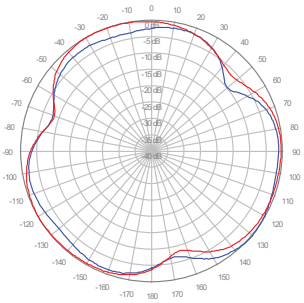


Azimuth

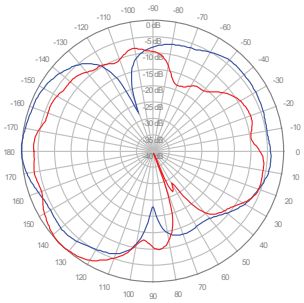


Elevation

-45°



Azimuth



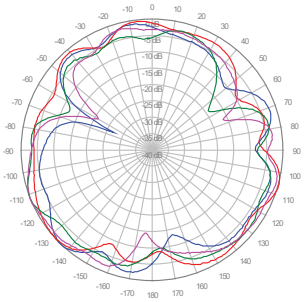
Elevation

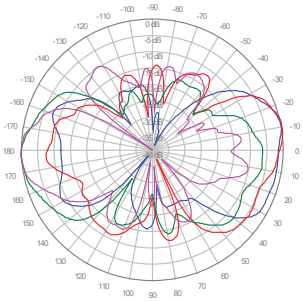
2C6U2VT360X06Fwxys4

1800 MHz
1900 MHz
2100 MHz
2600 MHz

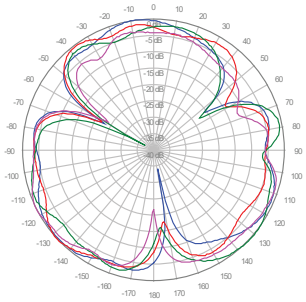
Y1, 2° TILT

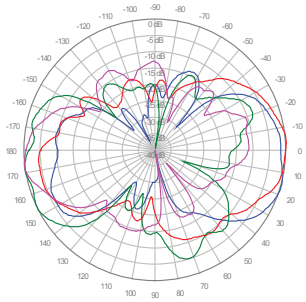
+45°


Azimuth


Elevation

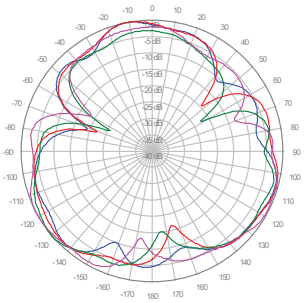
-45°

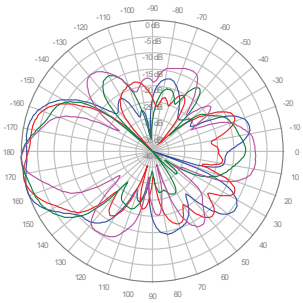

Azimuth


Elevation

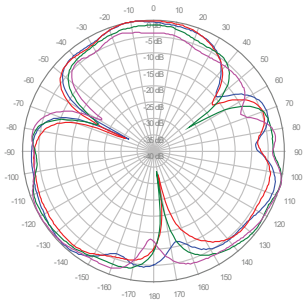
Y2, 2° TILT

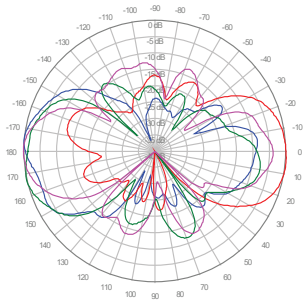
+45°


Azimuth


Elevation

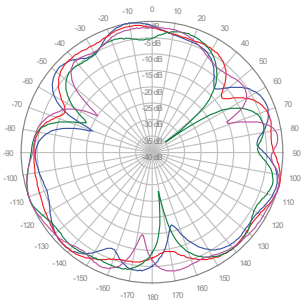
-45°

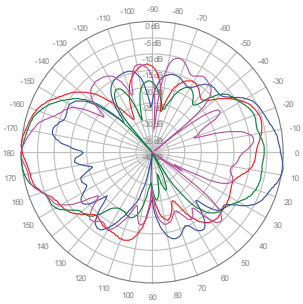

Azimuth


Elevation

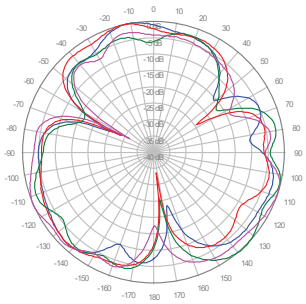
Y3, 2° TILT

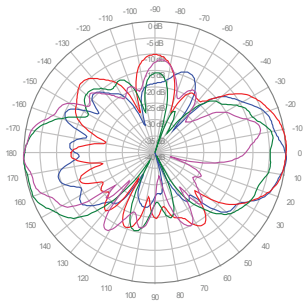
+45°


Azimuth


Elevation

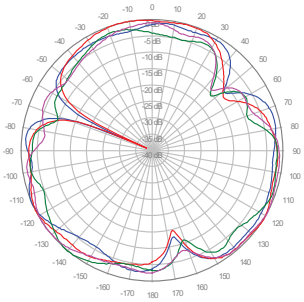
-45°

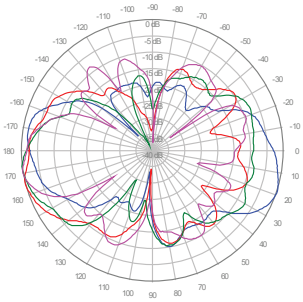

Azimuth


Elevation

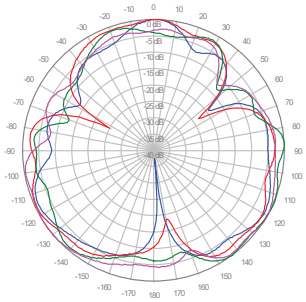
Y4, 2° TILT

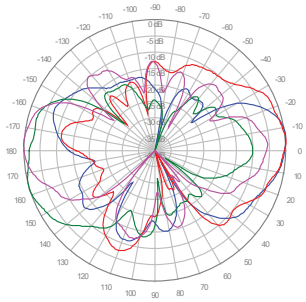
+45°


Azimuth


Elevation

-45°


Azimuth

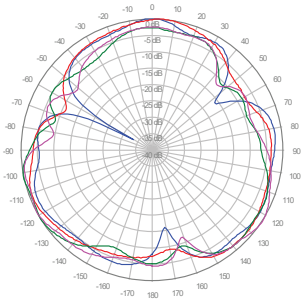

Elevation

2C6U2VT360X06Fwxys4

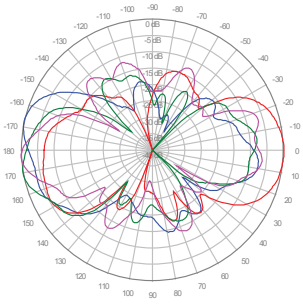
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y5, 2° TILT

+45°

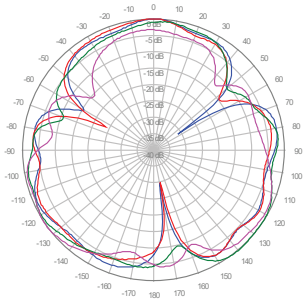


Azimuth

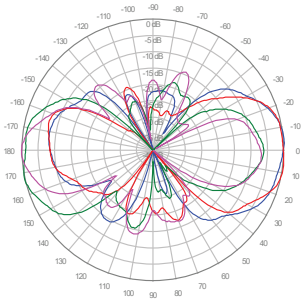


Elevation

-45°



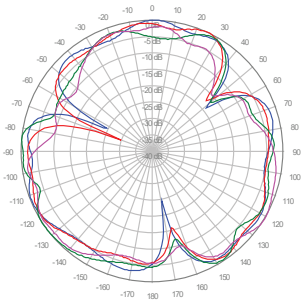
Azimuth



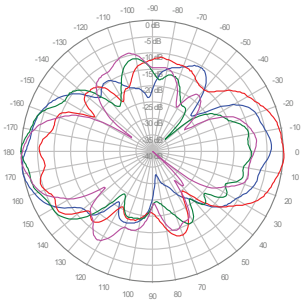
Elevation

Y6, 2° TILT

+45°

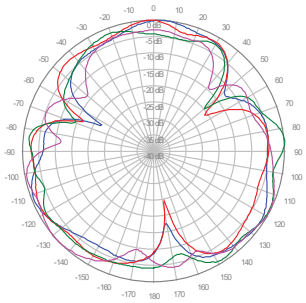


Azimuth

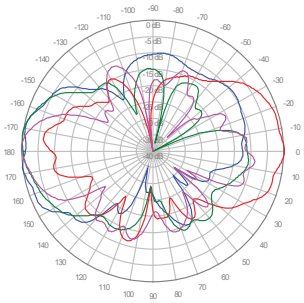


Elevation

-45°



Azimuth



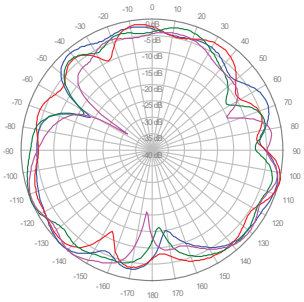
Elevation

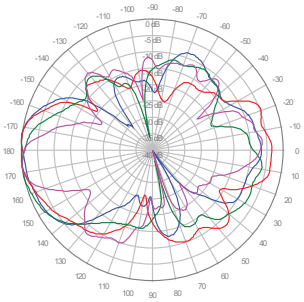
2C6U2VT360X06Fwxys4

1800 MHz
1900 MHz
2100 MHz
2600 MHz

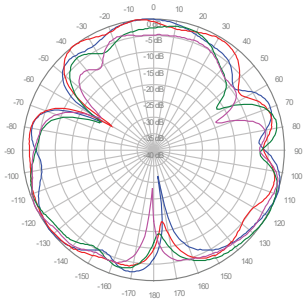
Y1, 4° TILT

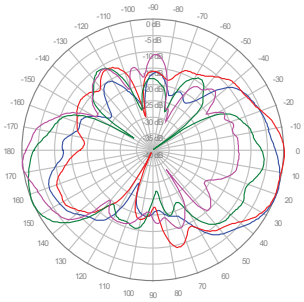
+45°


Azimuth


Elevation

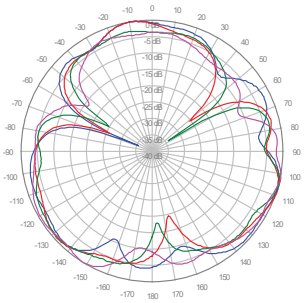
-45°

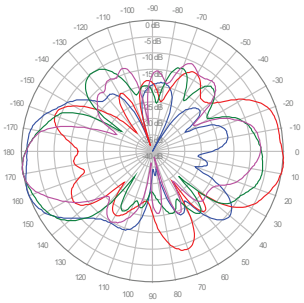

Azimuth


Elevation

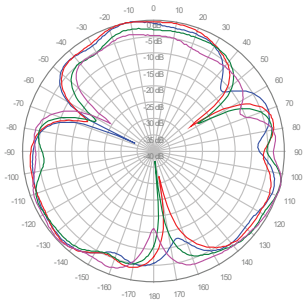
Y2, 4° TILT

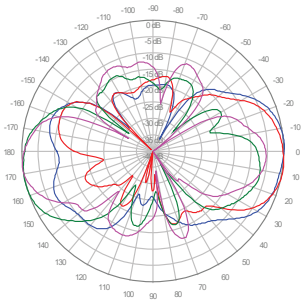
+45°


Azimuth


Elevation

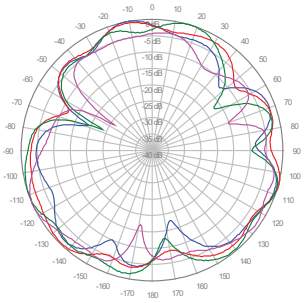
-45°

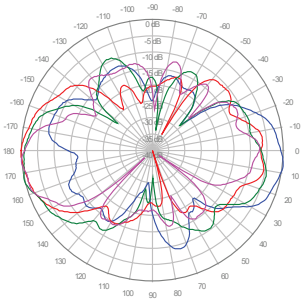

Azimuth


Elevation

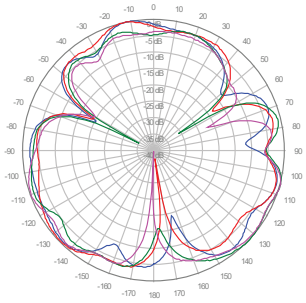
Y3, 4° TILT

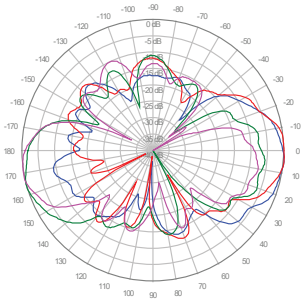
+45°


Azimuth


Elevation

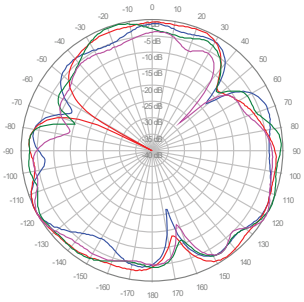
-45°

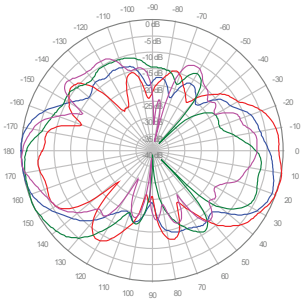

Azimuth


Elevation

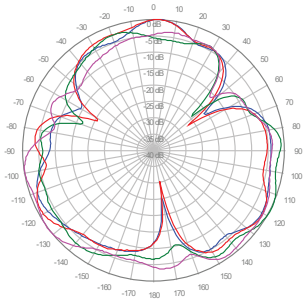
Y4, 4° TILT

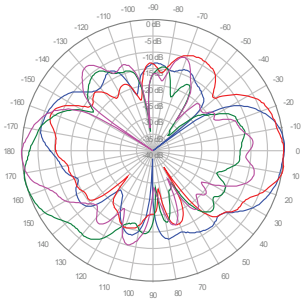
+45°


Azimuth


Elevation

-45°


Azimuth

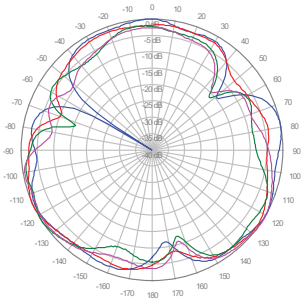

Elevation

2C6U2VT360X06Fwxys4

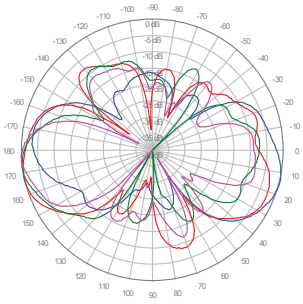
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y5, 4° TILT

+45°

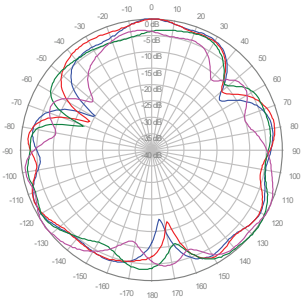


Azimuth

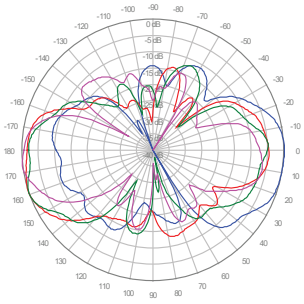


Elevation

-45°



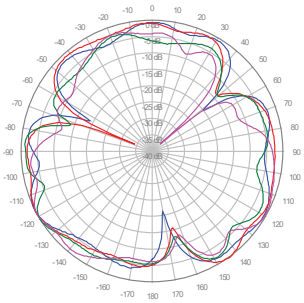
Azimuth



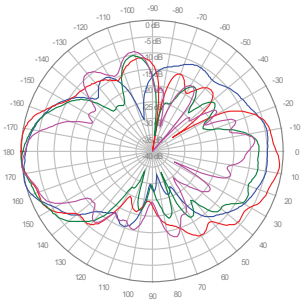
Elevation

Y6, 4° TILT

+45°

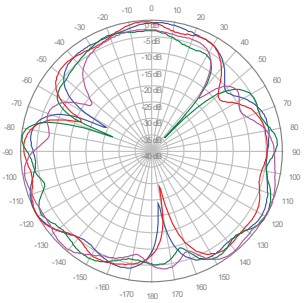


Azimuth

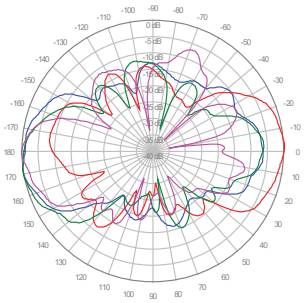


Elevation

-45°



Azimuth



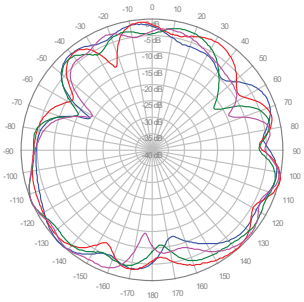
Elevation

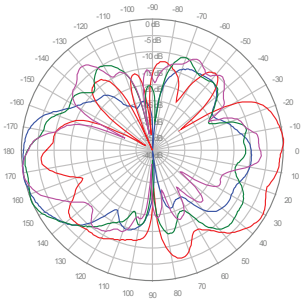
2C6U2VT360X06Fwxys4

1800 MHz
1900 MHz
2100 MHz
2600 MHz

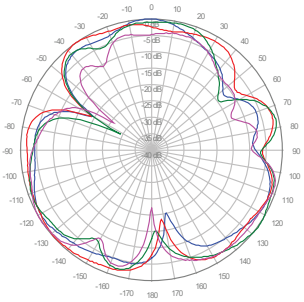
Y1, 6° TILT

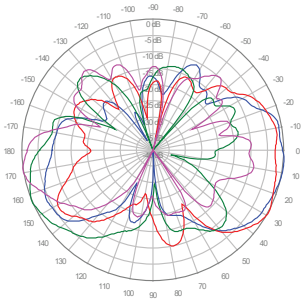
+45°


Azimuth


Elevation

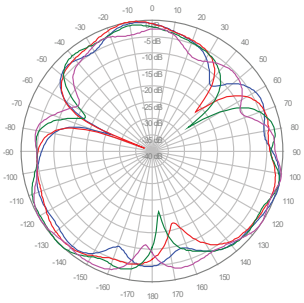
-45°

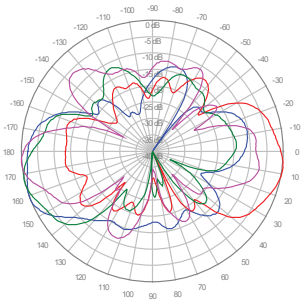

Azimuth


Elevation

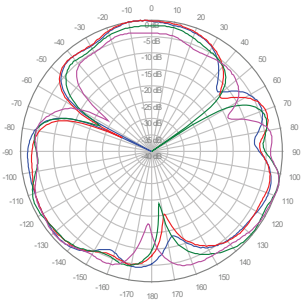
Y2, 6° TILT

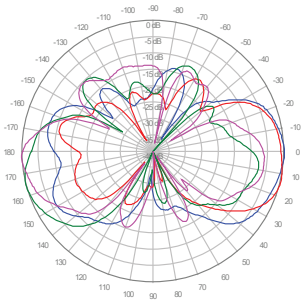
+45°


Azimuth


Elevation

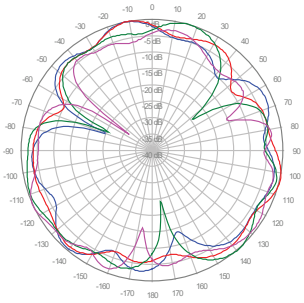
-45°

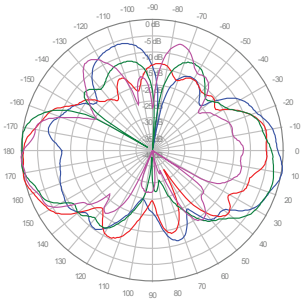

Azimuth


Elevation

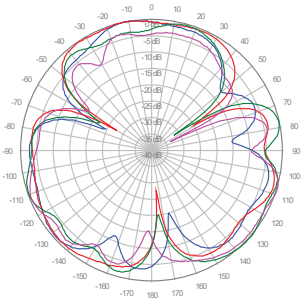
Y3, 6° TILT

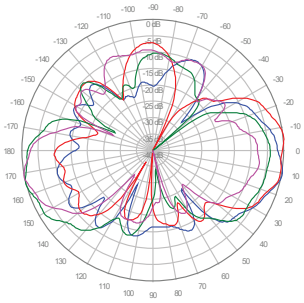
+45°


Azimuth


Elevation

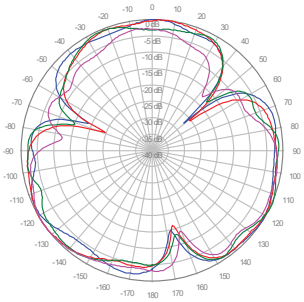
-45°

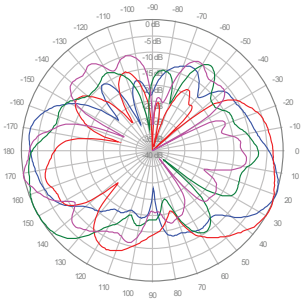

Azimuth


Elevation

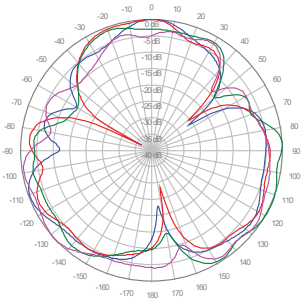
Y4, 6° TILT

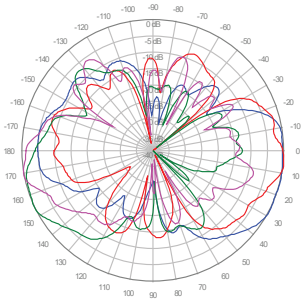
+45°


Azimuth


Elevation

-45°


Azimuth

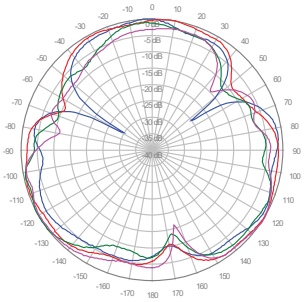

Elevation

2C6U2VT360X06Fwxys4

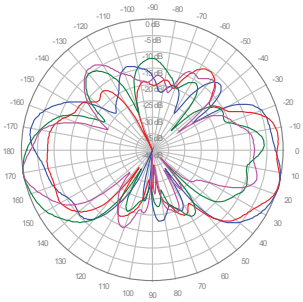
1800 MHz
1900 MHz
2100 MHz
2600 MHz

Y5, 6° TILT

+45°

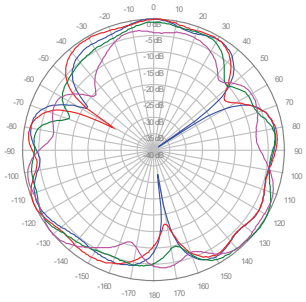


Azimuth

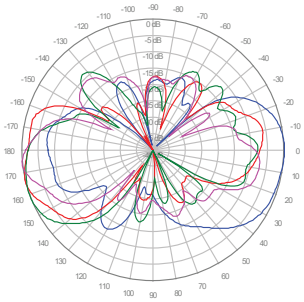


Elevation

-45°



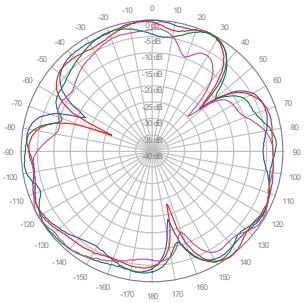
Azimuth



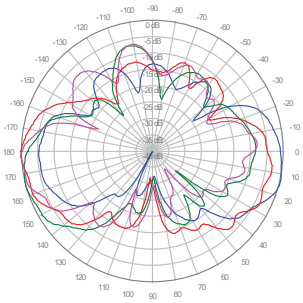
Elevation

Y6, 6° TILT

+45°

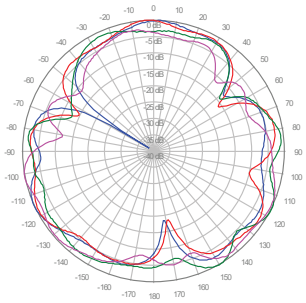


Azimuth

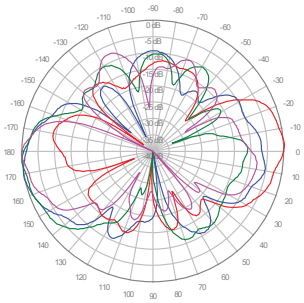


Elevation

-45°



Azimuth

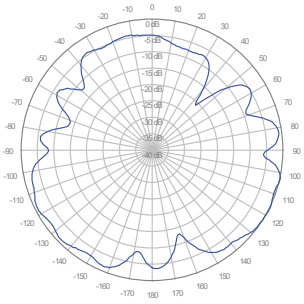


Elevation

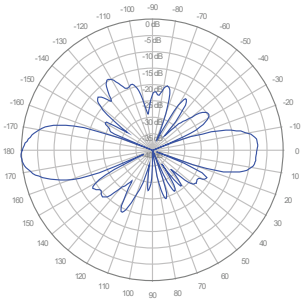
2C6U2VT360X06Fwxys4

P1, 0° TILT

+45°

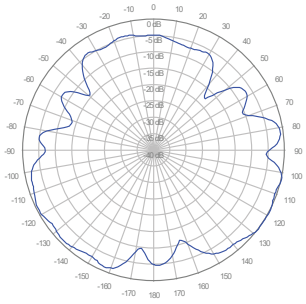


Azimuth (3600 MHz)

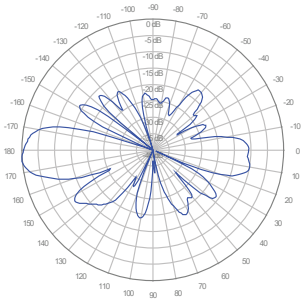


Elevation (3600 MHz)

-45°



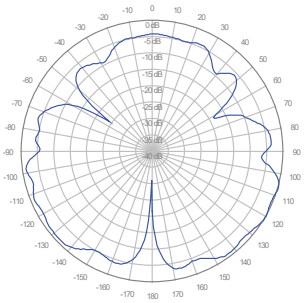
Azimuth (3600 MHz)



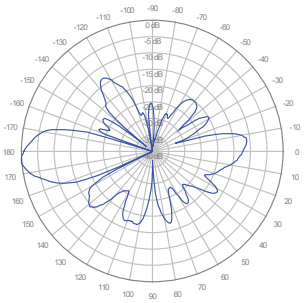
Elevation (3600 MHz)

P2, 0° TILT

+45°

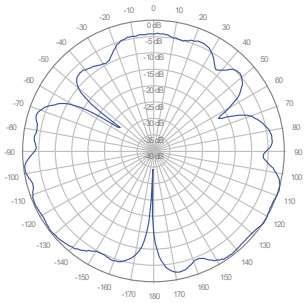


Azimuth (3600 MHz)

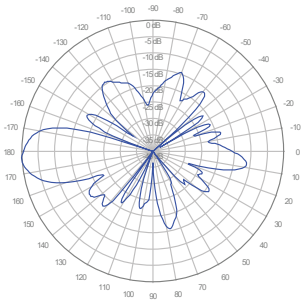


Elevation (3600 MHz)

-45°



Azimuth (3600 MHz)



Elevation (3600 MHz)