

2C6U4VT360X06Fwxys4



Features

- Pseudo omni configuration with 24 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	(4x) 3300-4200	Optional GPS BAND 1575.42 ± 10
	Array	■ R1 ■ R2	■ Y1 ■ Y2 ■ Y3 ■ Y4 ■ Y5 ■ Y6	■ P1 ■ P2 ■ P3 ■ P4	---
	Connector	4 PORTS	12 PORTS	8 PORTS	1 PORT
	Polarization	XPOL	XPOL	XPOL	RIGHT HAND CIRCULAR
	Azimuth Beamwidth (avg)	360°	360°	360°	---
	Electrical Downtilt	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)	6400 WATTS			---
	Connector Type	(24x) 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

■ 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	4.2 ± 0.9
	MAX	dBi	5.1	5.1
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	62° ± 24.9°	54.5° ± 11.3°
Electrical Downtilt		degrees	(w) 0°	
Impedance		Ohms	50Ω	
VSWR		---	≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153	
Upper Sidelobe Suppression		dB	N/A	N/A
Isolation	Intraband	dB	> 25	
	Interband	dB	> 28 same band; > 30 different 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.

2C6U4VT360X06Fwxys4

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	6.0 ± 1.3	6.4 ± 1.2	6.5 ± 1.2	7.3 ± 1.4
	MAX	dBi	7.3	7.6	7.7	8.7
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	37.4° ± 8.5°	35.2° ± 7.6°	33.4° ± 7.5°	28.4° ± 6.7°
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	> 13.6	> 14.1	> 13.3	> 11.1
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28 same band; > 30 different bands			

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	6.7 ± 0.8	6.8 ± 0.9	8.0 ± 1.3
	MAX	dBi	7.5	7.7	9.3
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	27.0 ± 6.0°	25.4 ± 5.8°	25.0 ± 4.9°
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	> 15.6	> 14.6	> 14.6
Isolation	Intraband	dB	> 25		
	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.

2C6U4VT360X06Fwxys4

INTEGRATED GPS UNIT OPTIONAL

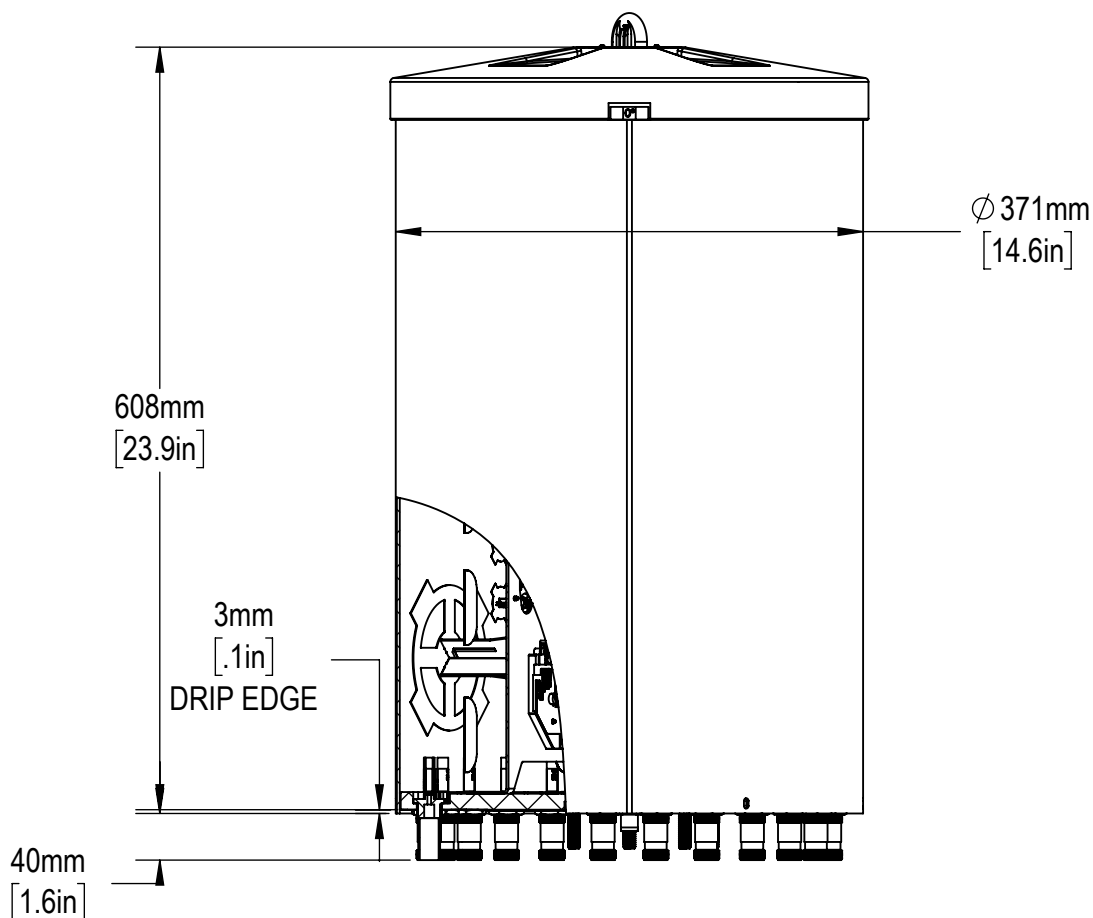
Frequency Range	1575.42 MHz ± 10 MHz
Polarization	Right Hand Circular
Nominal Gain	3 dBic at 90°; -2 dBic at 20°
Current Draw	22 mA @ 5V
Out-of-Band Rejection	> 55 dB at 1559 MHz; > 60 dB at 1625 MHz
Amplifier Gain	28 dB ± 3 dB
Nominal Impedance	50 ohm
Noise Figure	3.9 dB
DC Voltage	2.7-5.5 VDC
VSWR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

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.

2C6U4VT360X06Fwxys4

MECHANICAL SPECIFICATIONS

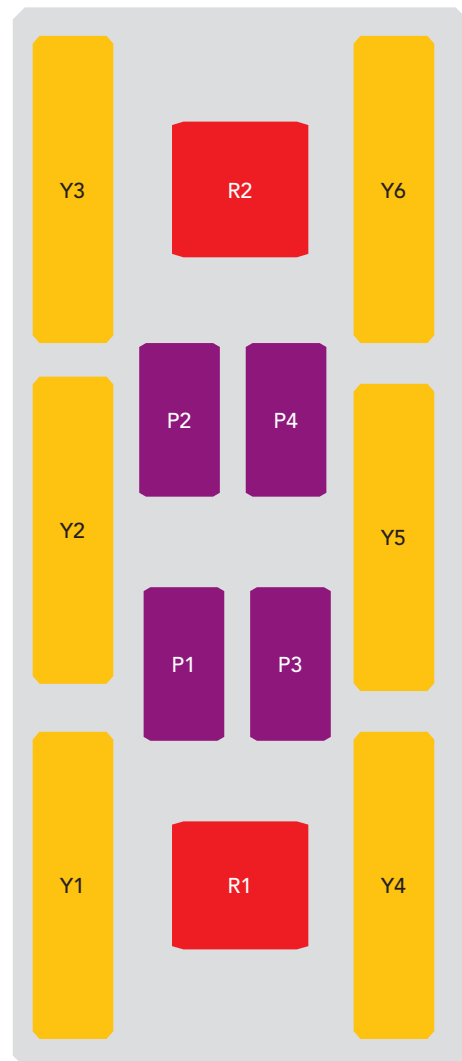
Antenna	Height	mm (in)	608 (23.9)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	14.1 (31.0)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	191 (43)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m ² (ft ²)	0.22 (2.4)
Volume		m ³ (ft ³)	0.07 (2.3)
Connector	Type	---	(24x) 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



2C6U4VT360X06Fwxys4

ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	■ R1	1-2	(2x) 4.3-10 Female
696-960 MHz	■ R1	3-4	(2x) 4.3-10 Female
1695-2700 MHz	■ Y1	5-6	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	7-8	(2x) 4.3-10 Female
1695-2700 MHz	■ Y3	9-10	(2x) 4.3-10 Female
1695-2700 MHz	■ Y4	11-12	(2x) 4.3-10 Female
1695-2700 MHz	■ Y5	13-14	(2x) 4.3-10 Female
1695-2700 MHz	■ Y6	15-16	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	17-18	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	19-20	(2x) 4.3-10 Female
3300-4200 MHz	■ P3	21-22	(2x) 4.3-10 Female
3300-4200 MHz	■ P4	23-24	(2x) 4.3-10 Female
Optional GPS BAND 1575.42 MHz	---	---	(1x) N-Type Female

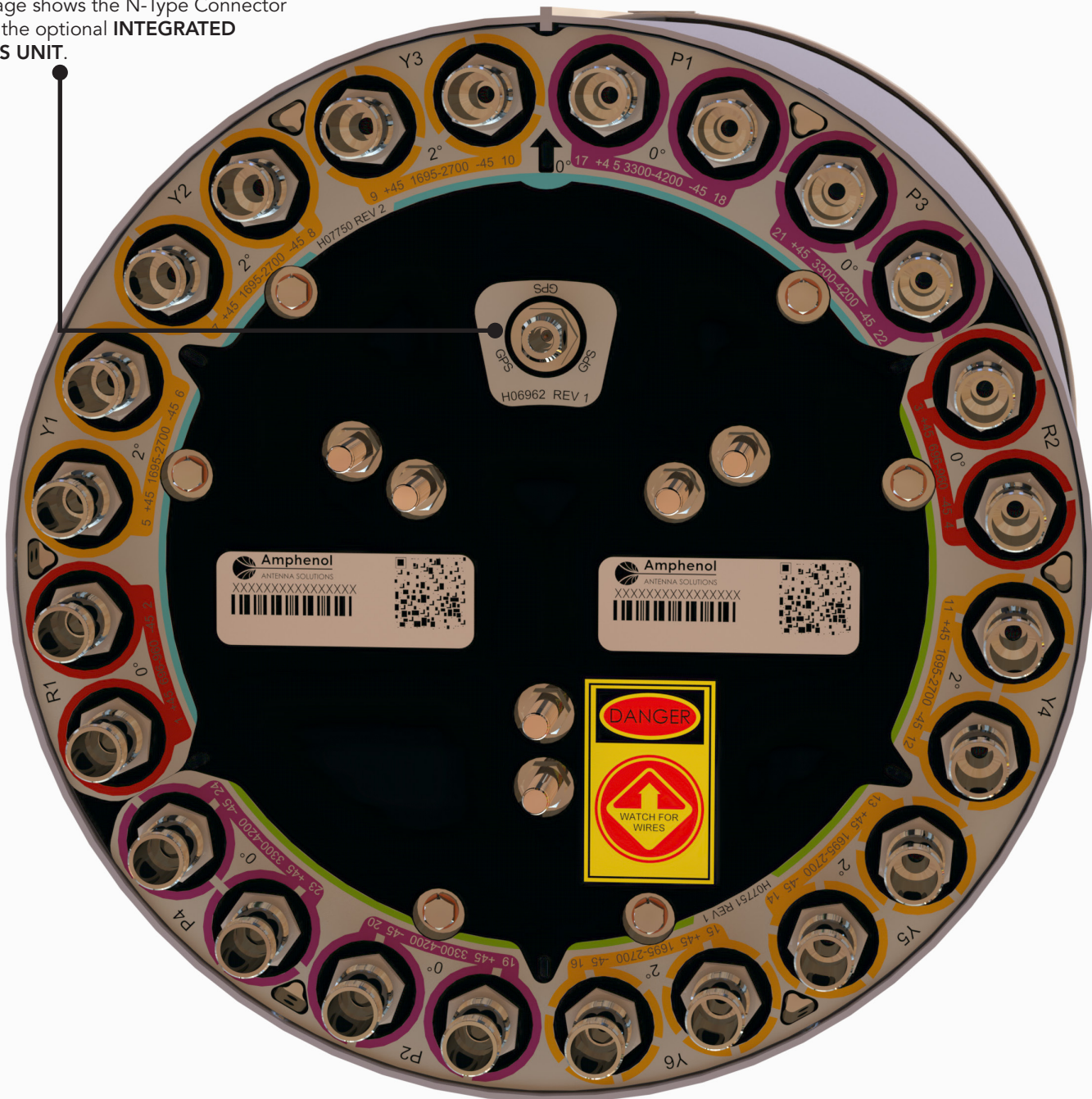


The illustration is not shown to scale.

2C6U4VT360X06Fwxys4

BOTTOM VIEW - LABELING

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

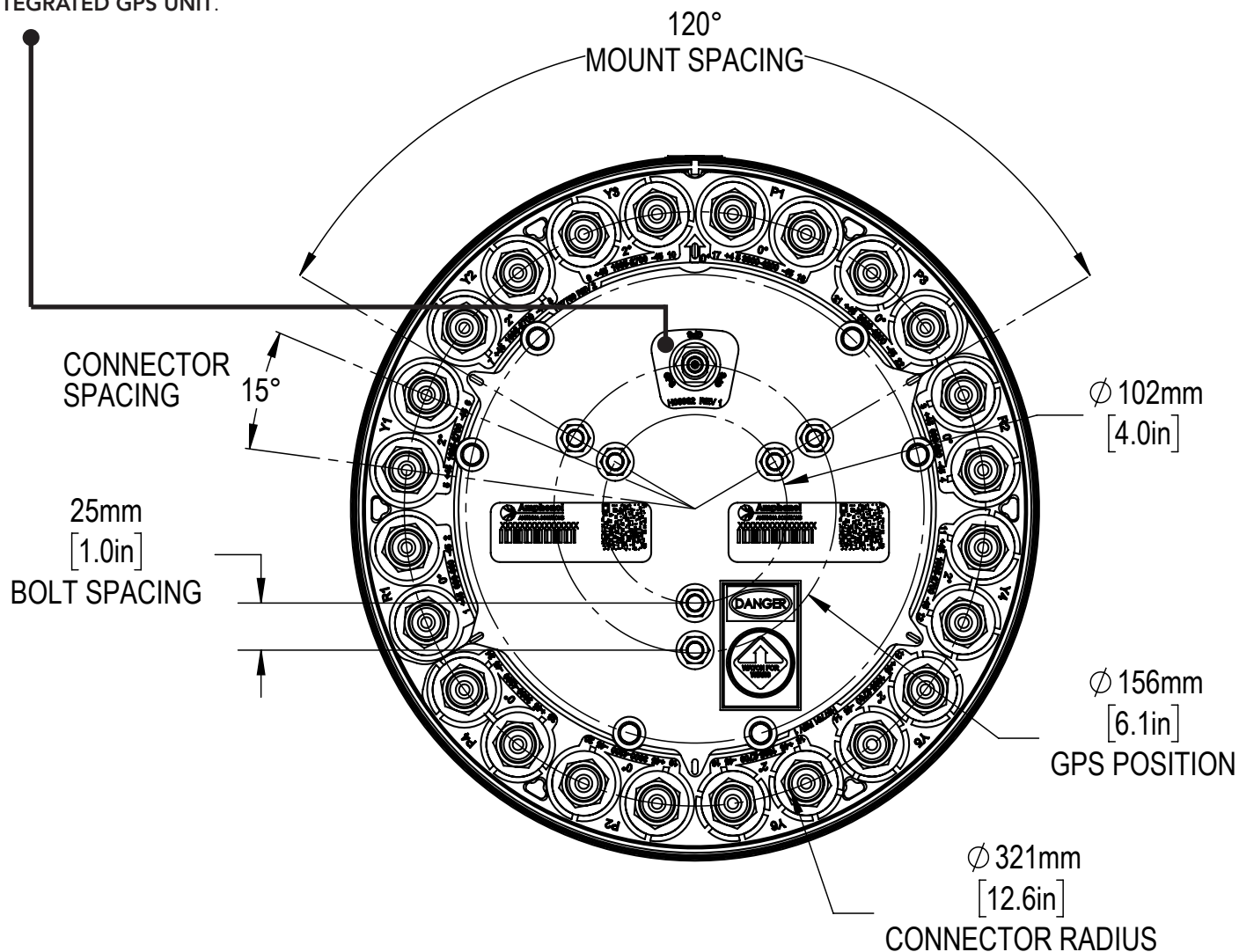


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

2C6U4VT360X06Fwxys4

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.

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.

2C6U4VT360X06Fwxys4

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.

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.

2C6U4VT360X06Fwxy^s4

HOW TO READ THE MODEL NUMBER Each letter and number has meaning.

NUMBER OF BANDS & OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BWWDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS	GPS
2C	6U	4V	T	360	X	06	F	wxy	s	4	BK BR	-GPS
(2x) 696-960	(6x) 1695-2700	(4x) 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 integrated GPS unit

ORDERING OPTIONS Select from the following ordering options

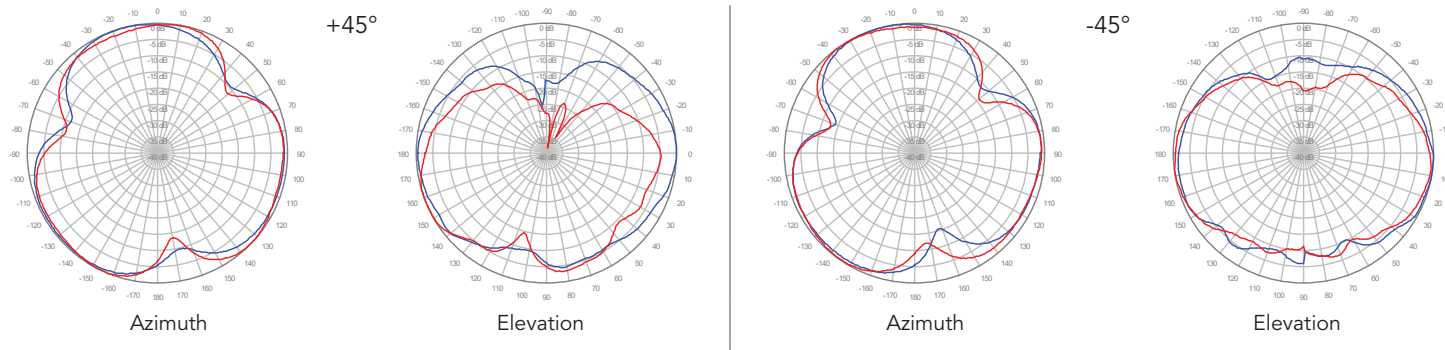
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			SELECT ANTENNA TYPE	
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	WITHOUT GPS UNIT	WITH GPS UNIT
Grey RAL 7035	0°	2°	0°	2C6U4VT360X06F020s4	2C6U4VT360X06F020s4-GPS
	0°	4°	0°	2C6U4VT360X06F040s4	2C6U4VT360X06F040s4-GPS
	0°	6°	0°	2C6U4VT360X06F060s4	2C6U4VT360X06F060s4-GPS
Brown RAL 8022	0°	2°	0°	2C6U4VT360X06F020s4BR	2C6U4VT360X06F020s4BR-GPS
	0°	4°	0°	2C6U4VT360X06F040s4BR	2C6U4VT360X06F040s4BR-GPS
	0°	6°	0°	2C6U4VT360X06F060s4BR	2C6U4VT360X06F060s4BR-GPS
Black RAL 9011	0°	2°	0°	2C6U4VT360X06F020s4BK	2C6U4VT360X06F020s4BK-GPS
	0°	4°	0°	2C6U4VT360X06F040s4BK	2C6U4VT360X06F040s4BK-GPS
	0°	6°	0°	2C6U4VT360X06F060s4BK	2C6U4VT360X06F060s4BK-GPS

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.

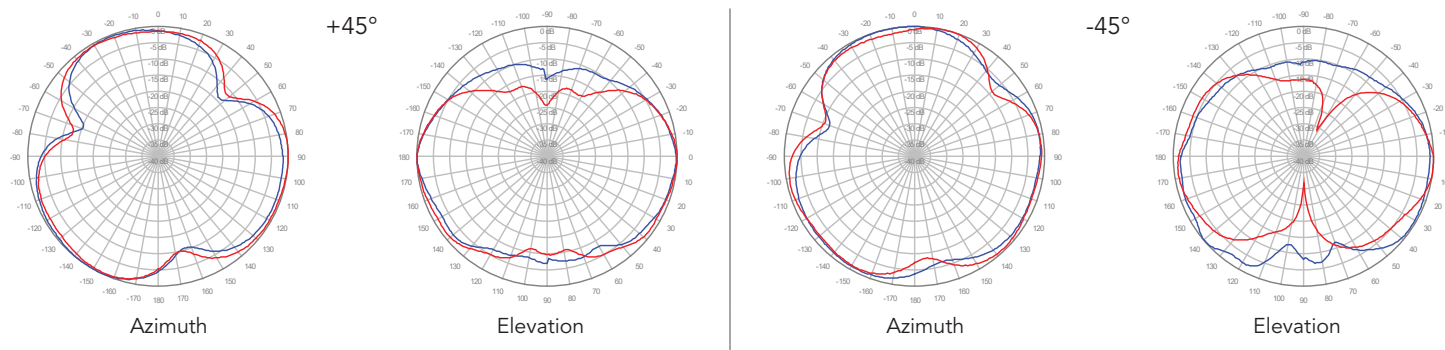
2C6U4VT360X06Fwxys4

750 MHz ————
850 MHz ————

■ R1, 0° TILT



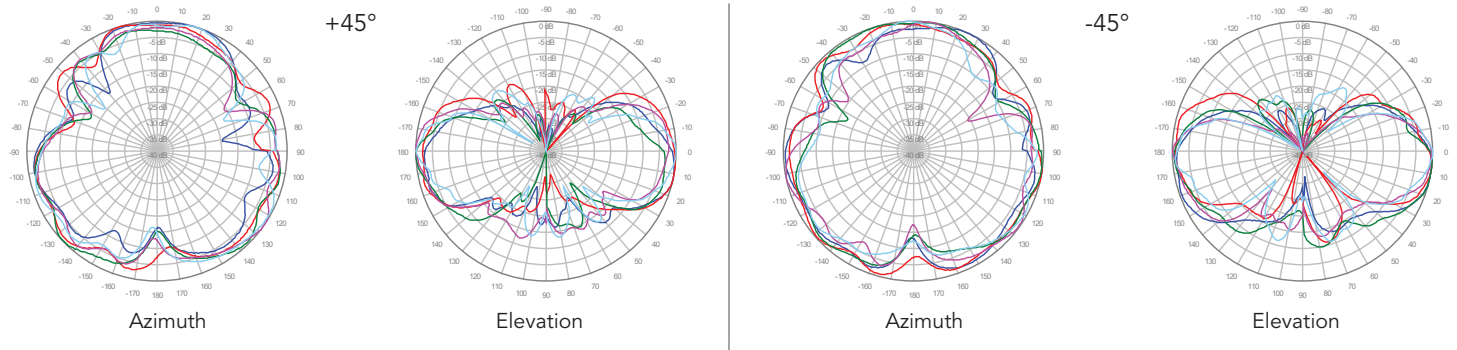
■ R2, 0° TILT



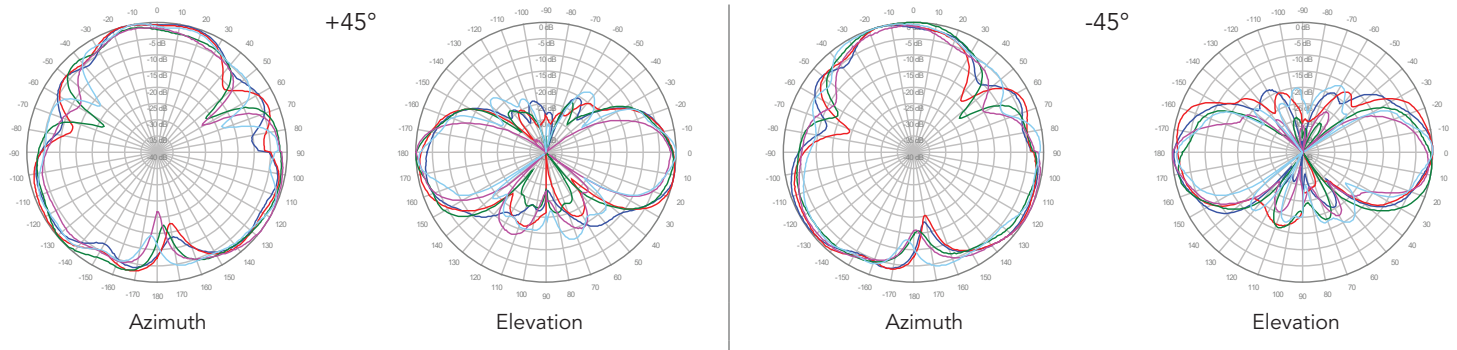
2C6U4VT360X06Fwxys4

1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

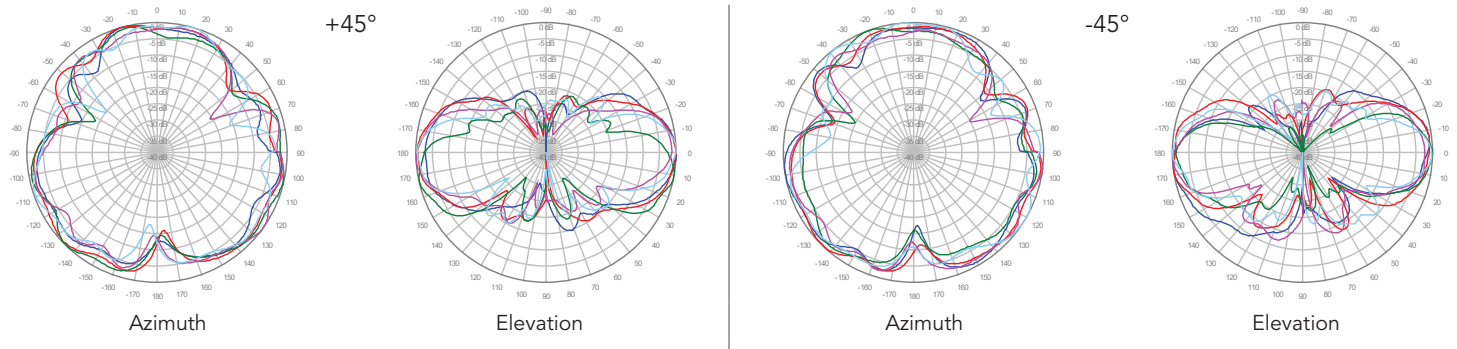
Y1, 2° TILT



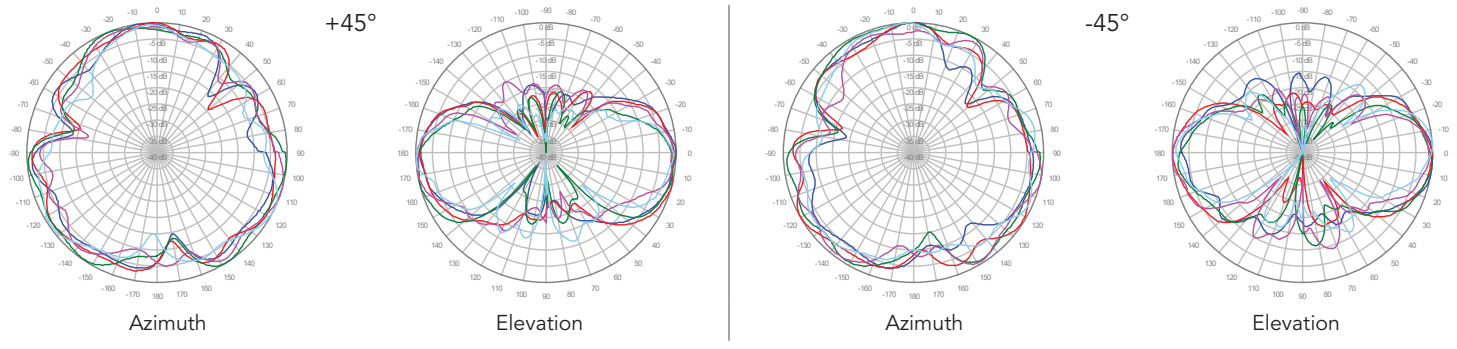
Y2, 2° TILT



Y3, 2° TILT



Y4, 2° TILT



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.

OMNI

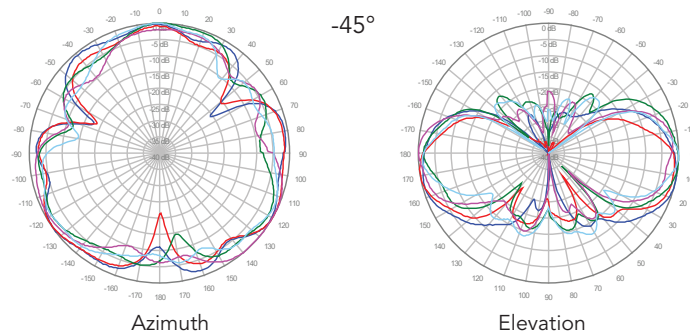
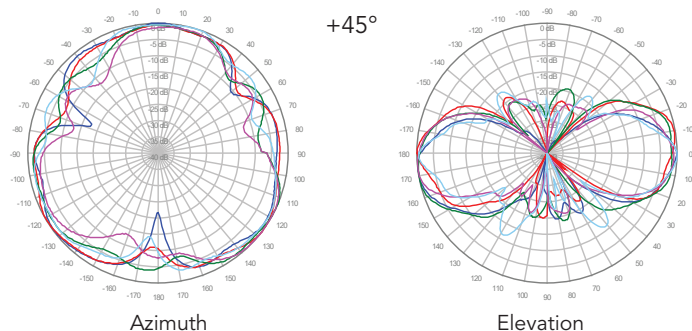
23.9 IN

FIXED TILT

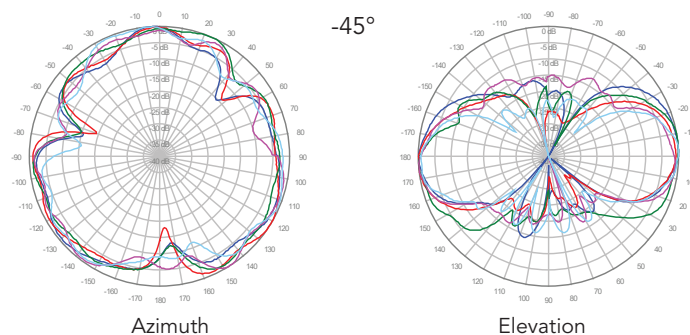
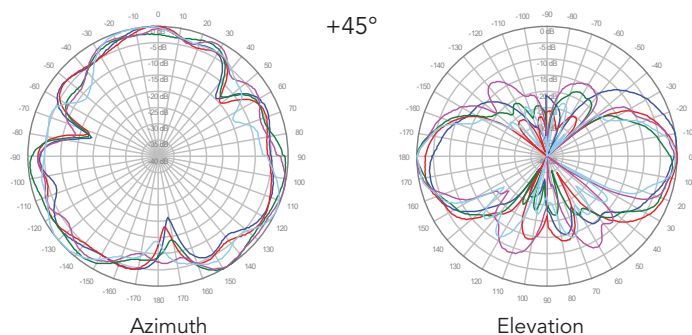
2C6U4VT360X06Fwxys4

1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

■ **Y5, 2° TILT**



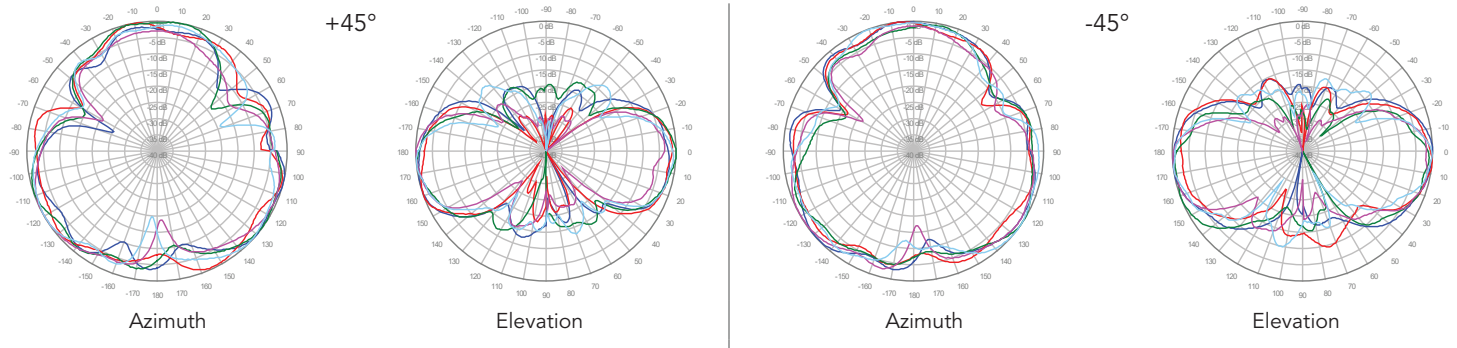
■ **Y6, 2° TILT**



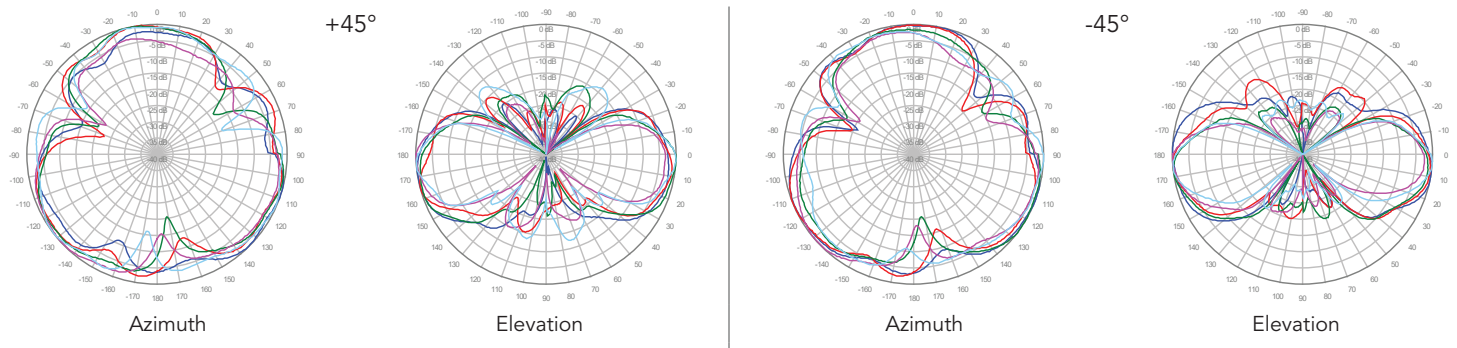
2C6U4VT360X06Fwxys4

1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

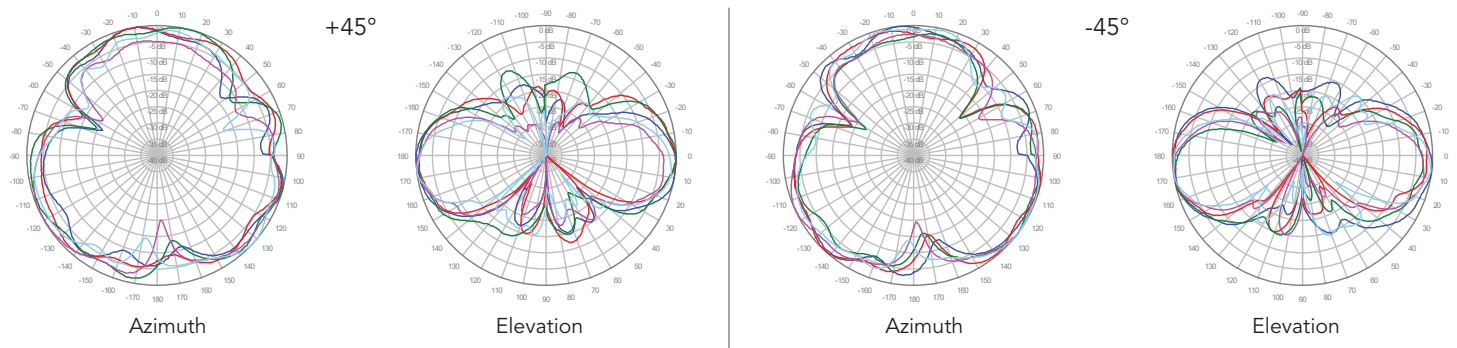
Y1, 4° TILT



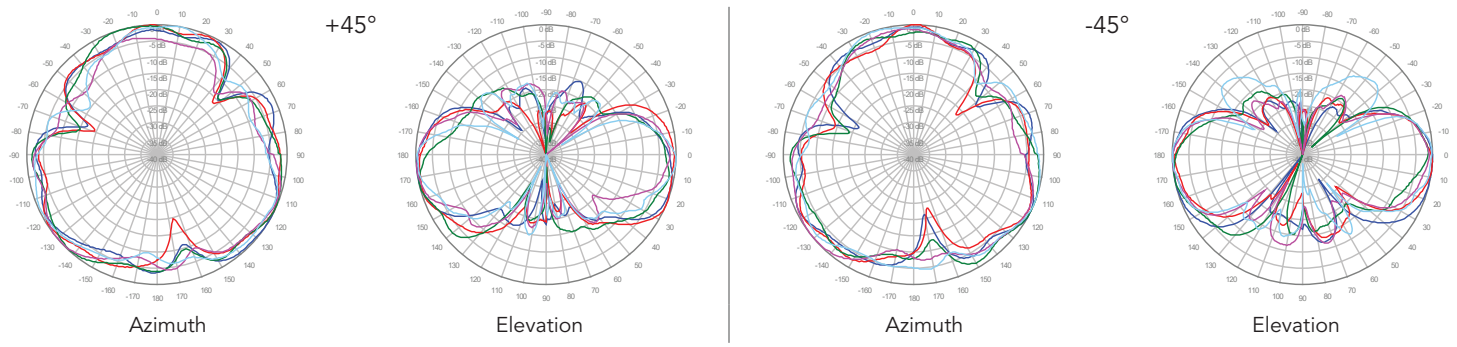
Y2, 4° TILT



Y3, 4° TILT



Y4, 4° TILT

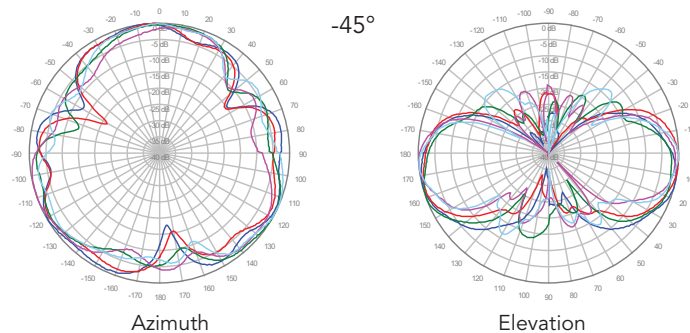
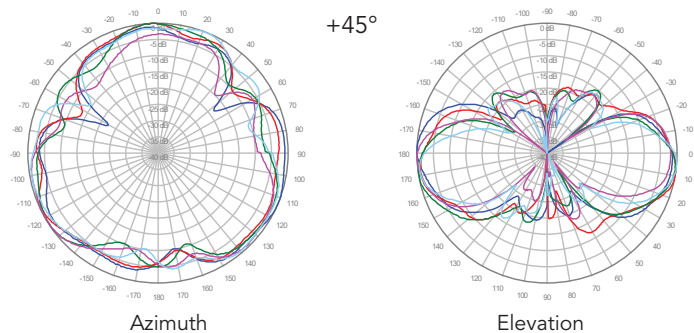


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

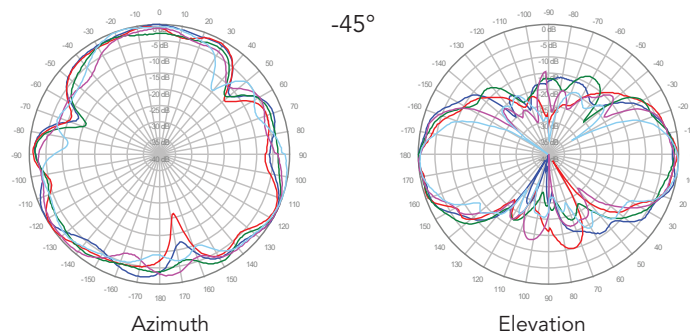
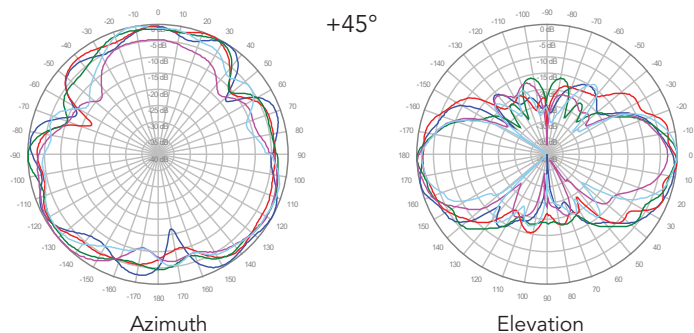
2C6U4VT360X06Fwxys4

1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

■ Y5, 4° TILT



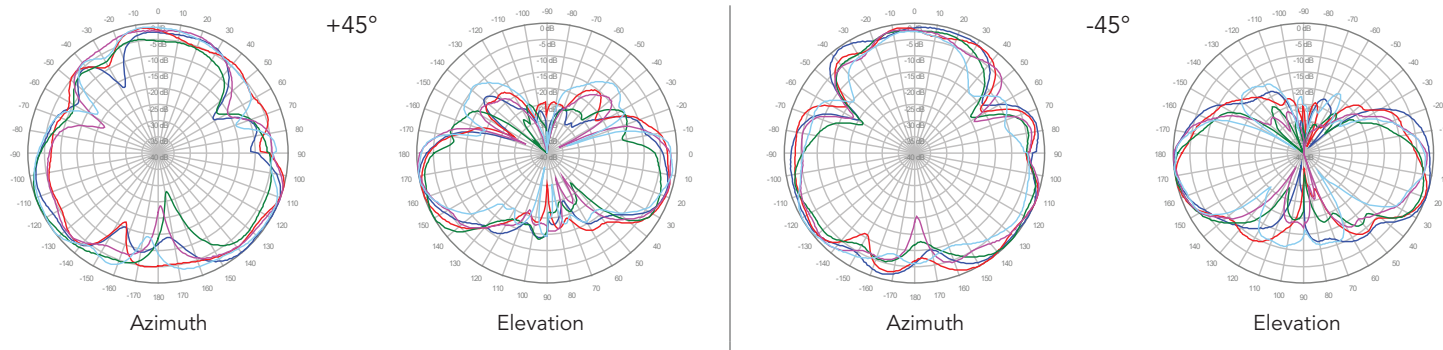
■ Y6, 4° TILT



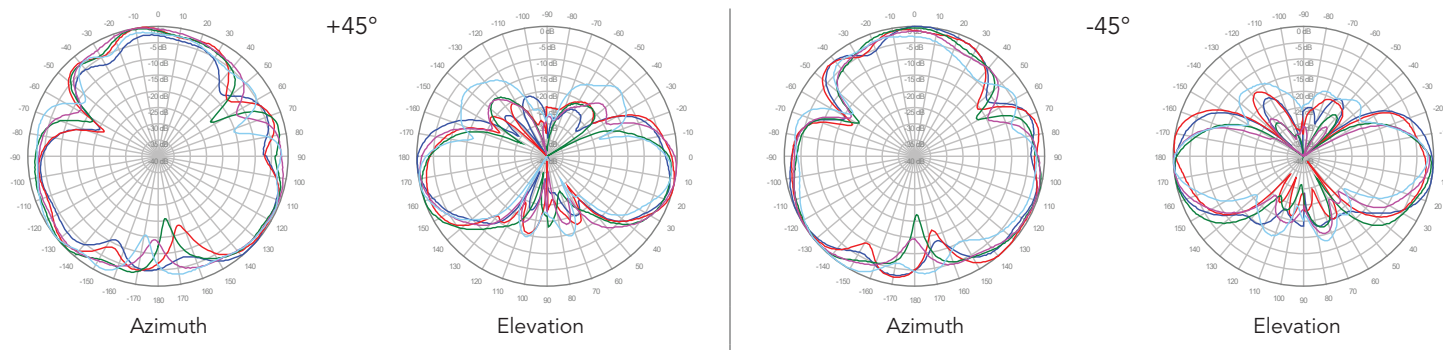
2C6U4VT360X06Fwxys4

1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

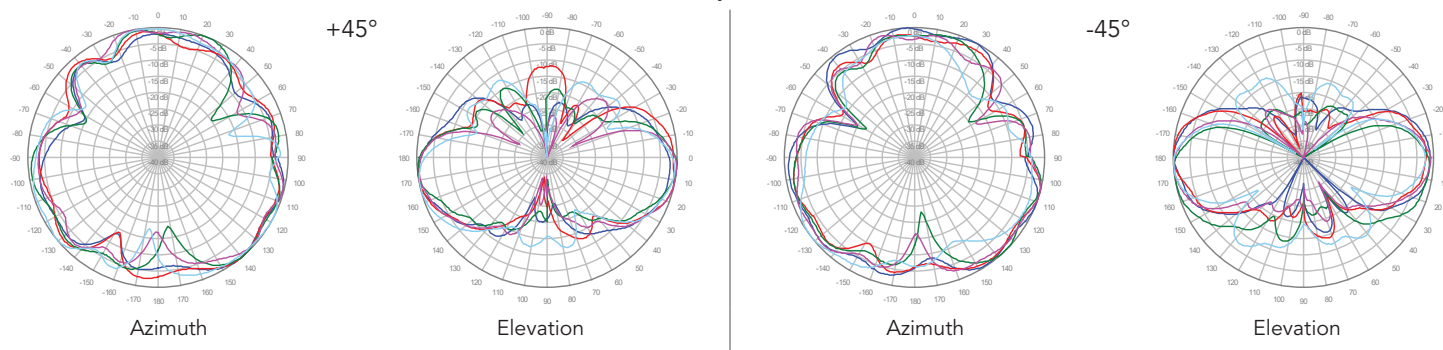
■ Y1, 6° TILT



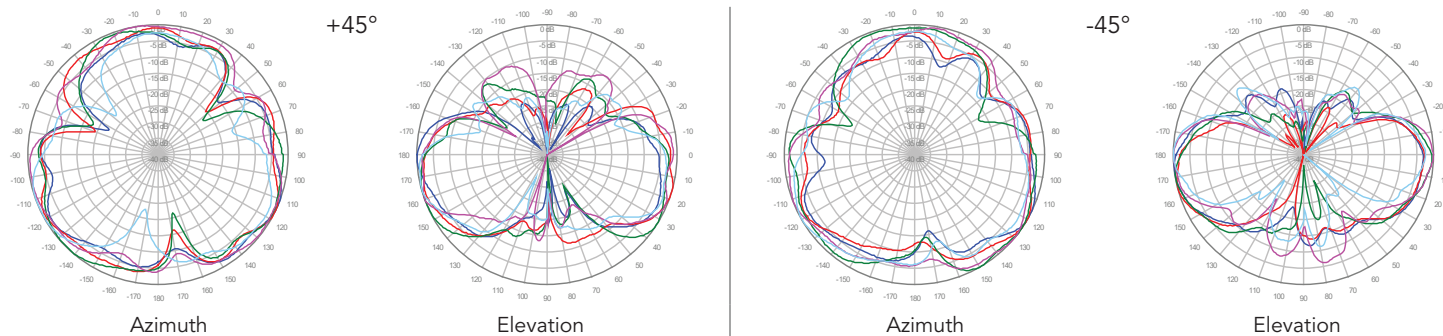
■ Y2, 6° TILT



■ Y3, 6° TILT



■ Y4, 6° TILT

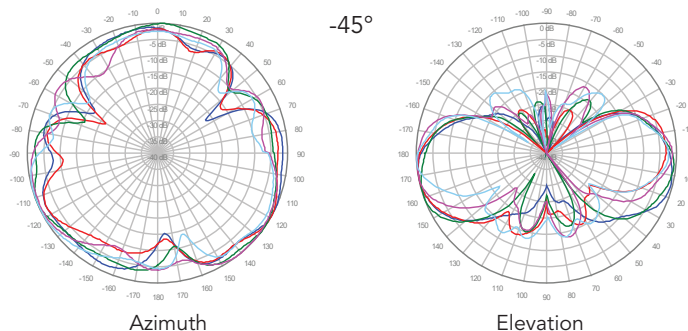
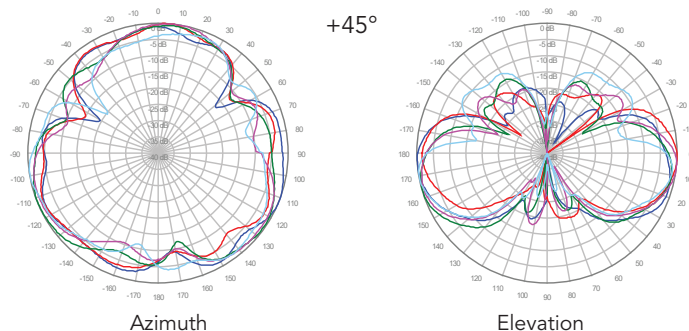


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

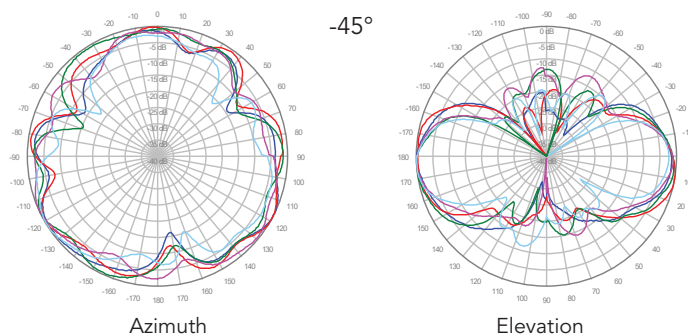
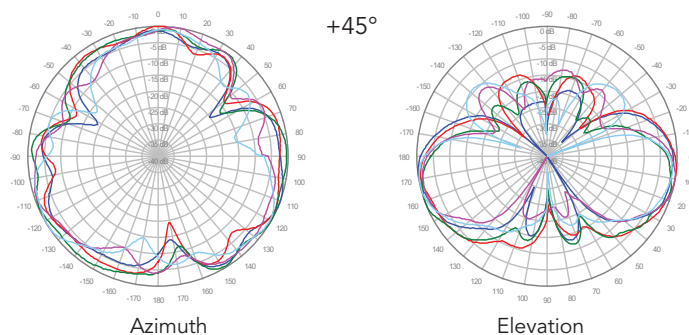
2C6U4VT360X06Fwxys4

1800 MHz —
1900 MHz —
2100 MHz —
2300 MHz —
2600 MHz —

■ **Y5, 6° TILT**



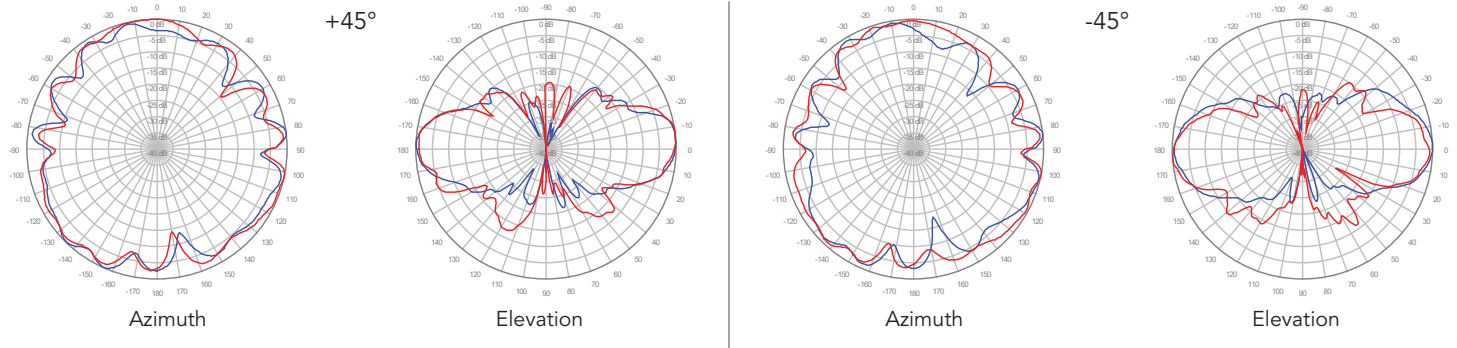
■ **Y6, 6° TILT**



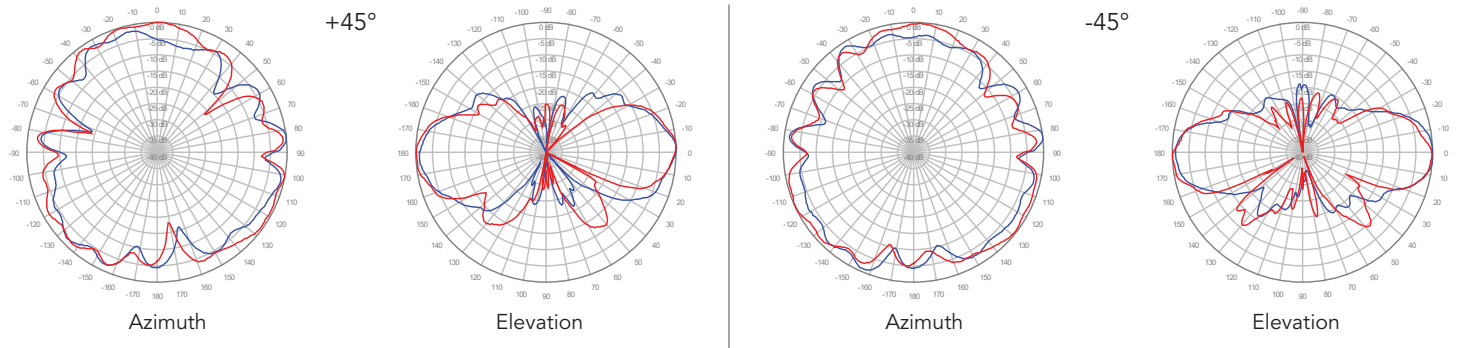
2C6U4VT360X06Fwxys4

3600 MHz ————
4000 MHz ————

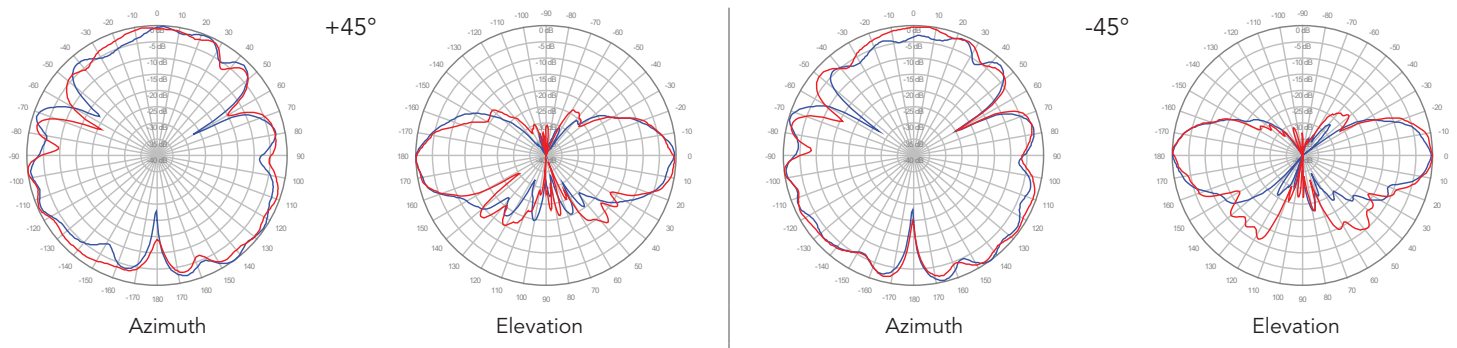
P1, 0° TILT



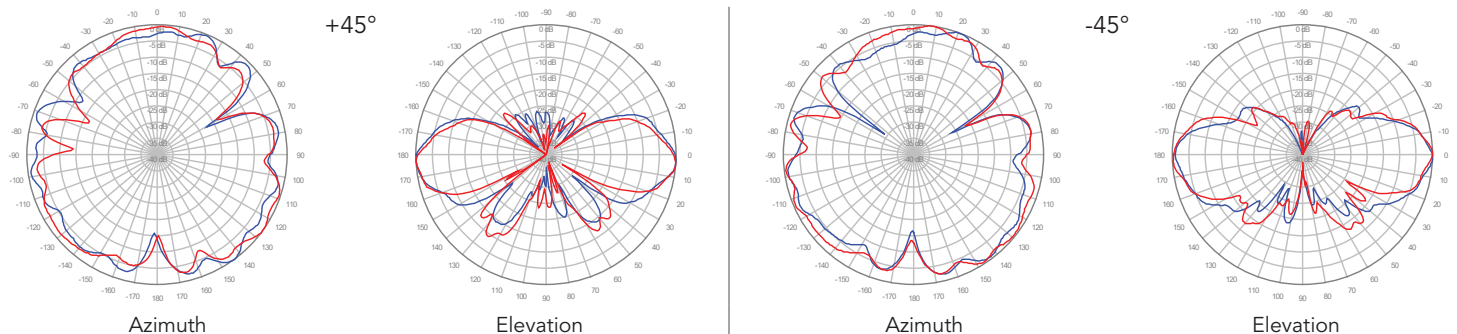
P2, 0° TILT



P3, 0° TILT



P4, 0° TILT



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.