

## 2C2U2VT360X05Fwxys4

### Features

- 18.0-inch height
- Pseudo omni configuration with 12 connectors
- Broadband networks 696-960, 1695-2700 and 3300-4200 MHz
- Easily removable lifting ring



PRODUCT OVERVIEW	Frequency Range (MHz)	(2x) 696-960	(2x) 1695-2700	(2x) 3300-4200
	Array	■ R1 ■ R2	■ Y1 ■ Y2	■ P1 ■ P2
	Connector	4 PORTS	4 PORTS	4 PORTS
	Polarization	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°	360°
	Electrical Downtilt	0°	0°	0°
	Configuration	OMNI CONFIGURATION		
	Maximum Continuous Power Per Port @ 50° C (122° F)	300 W	300 W	100 W
	Maximum Total Continuous Power at 50° C (122° F)	2800 W		
	Connector Type	(12x) 4.3-10 FEMALE		
Dimensions	453 x Ø371 mm (18.0 x Ø14.6 in)			
Radome Color Options	GREY			

### ELECTRICAL SPECIFICATIONS

■ R1 ■ R2

Frequency Range	MHz	(2x) 696-960	
Frequency Sub-Range	MHz	696-806	806-960
Polarization	---	(2x) ±45°	
Gain	BASTA	dBi	3.5 ± 1.3
	MAX	dBi	4.8
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	52.3° ± 19.2°	54.2° ± 17.9°
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	
Isolation	Intraband	dB	> 23
	Interband	dB	> 25 same band; > 25 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.

OMNI

18.0 IN

FIXED TILT

## 2C2U2VT360X05Fwxys4

### ELECTRICAL SPECIFICATIONS

■ Y1 ■ Y2

Frequency Range		MHz	(2x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(2x) ±45°			
Gain	BASTA	dBi	8.3 ± 1.1	8.8 ± 1.1	8.7 ± 1.0	10.0 ± 1.0
	MAX	dBi	9.4	9.9	9.7	11.0
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	20.7° ± 2.5°	19.5° ± 1.3°	18.6° ± 2.3°	15.1° ± 1.7°
Electrical Downtilt		degrees	(x) 0°			
Impedance		Ohms	50Ω			
VSWR		---	≤ 1.5:1			
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153			
Upper Sidelobe Suppression		dB	> 14.6	> 13.9	> 14.8	> 16.1
Isolation	Intraband	dB	> 23			
	Interband	dB	> 20 same band; > 20 different band			

### ELECTRICAL SPECIFICATIONS

■ P1 ■ P2

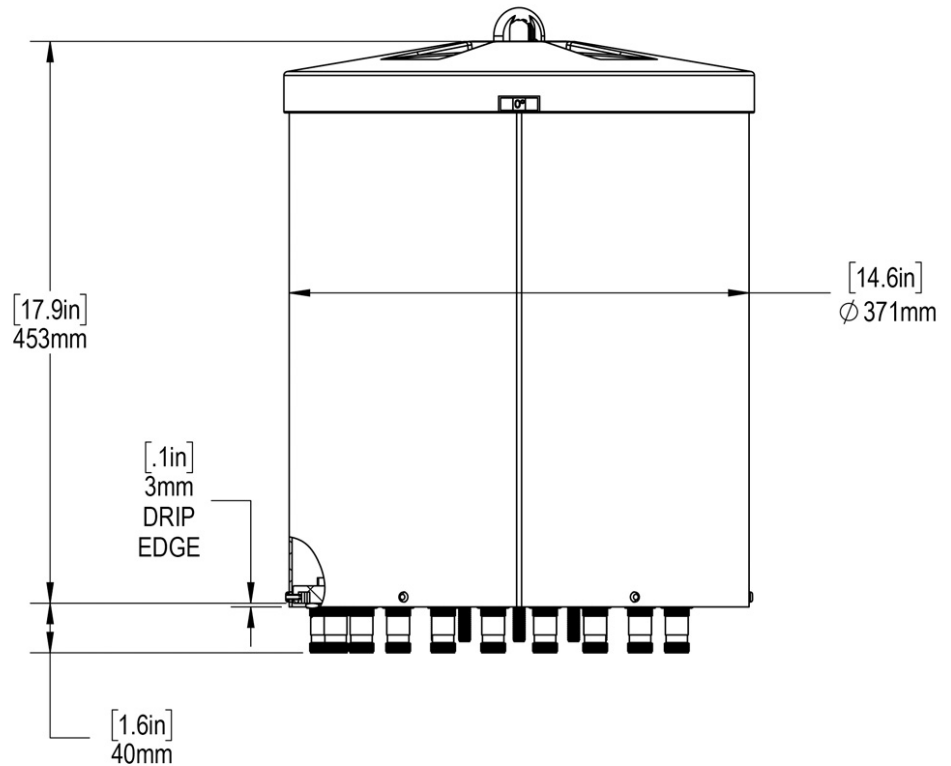
Frequency Range		MHz	(2x) 3300-4200			
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200	
Polarization		---	(2x) ±45°			
Gain	BASTA	dBi	8.3 ± 1.1	8.8 ± 0.7	9.1 ± 1.1	
	MAX	dBi	9.4	9.5	10.2	
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	
Elevation Beamwidth (3 dB)		degrees	12.4° ± 1.0°	11.1° ± 1.0°	10.4° ± 0.7°	
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	> 12.2	> 13.8	> 13.3	
Isolation	Intraband	dB	> 25			
	Interband	dB	> 30 same band; > 28 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.

## 2C2U2VT360X05Fwxys4

### MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	453 (18.0)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	15 (33)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	144.7 (32.5)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m <sup>2</sup> (ft <sup>2</sup> )	0.17 (1.8)
Volume		m <sup>3</sup> (ft <sup>3</sup> )	0.05 (1.74)
Connector	Type	---	(12x) 4.3-10 Female
	Position	---	Bottom
Radome Color		---	Grey (RAL 7035)
Lightning Protection (Grounding Type)		---	Direct Ground

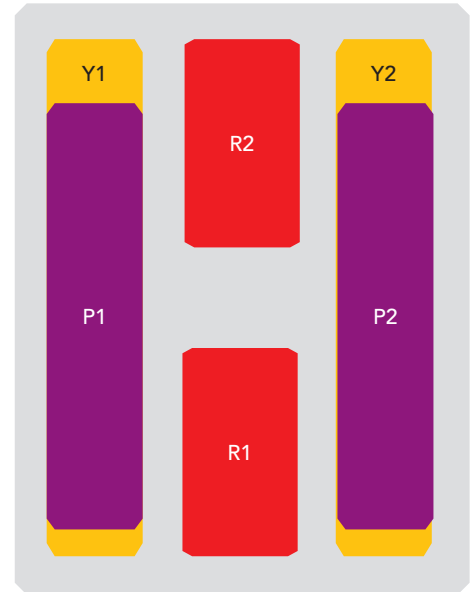


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

## 2C2U2VT360X05Fwxys4

### ARRAY LAYOUT Topology

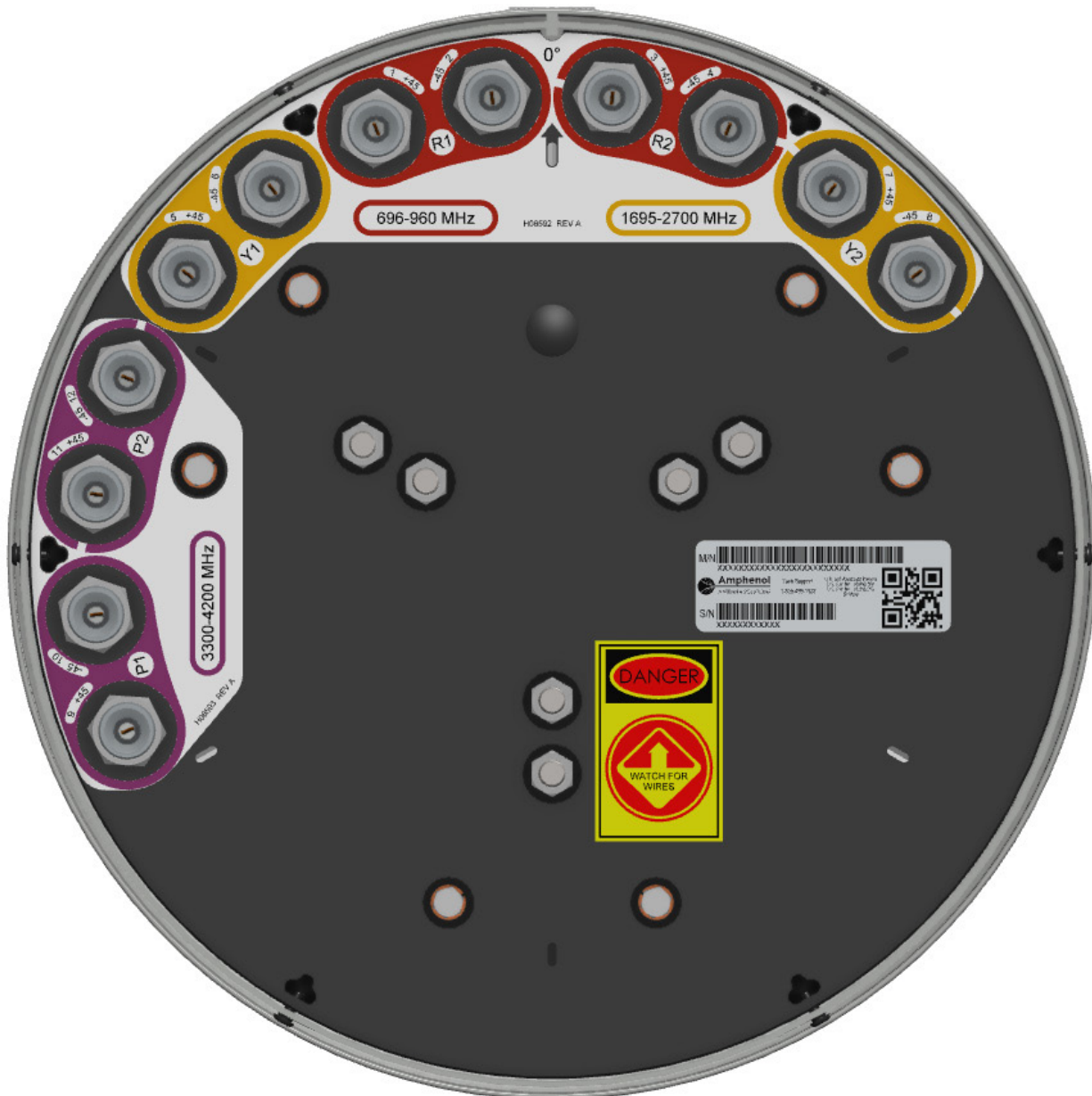
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	<span style="color: red;">■</span> R1	1-2	(2x) 4.3-10 Female
696-960 MHz	<span style="color: red;">■</span> R2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y1	5-6	(2x) 4.3-10 Female
1695-2700 MHz	<span style="color: yellow;">■</span> Y2	7-8	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P1	9-10	(2x) 4.3-10 Female
3300-4200 MHz	<span style="color: purple;">■</span> P2	11-12	(2x) 4.3-10 Female



The illustration is not shown to scale.

## 2C2U2VT360X05Fwxys4

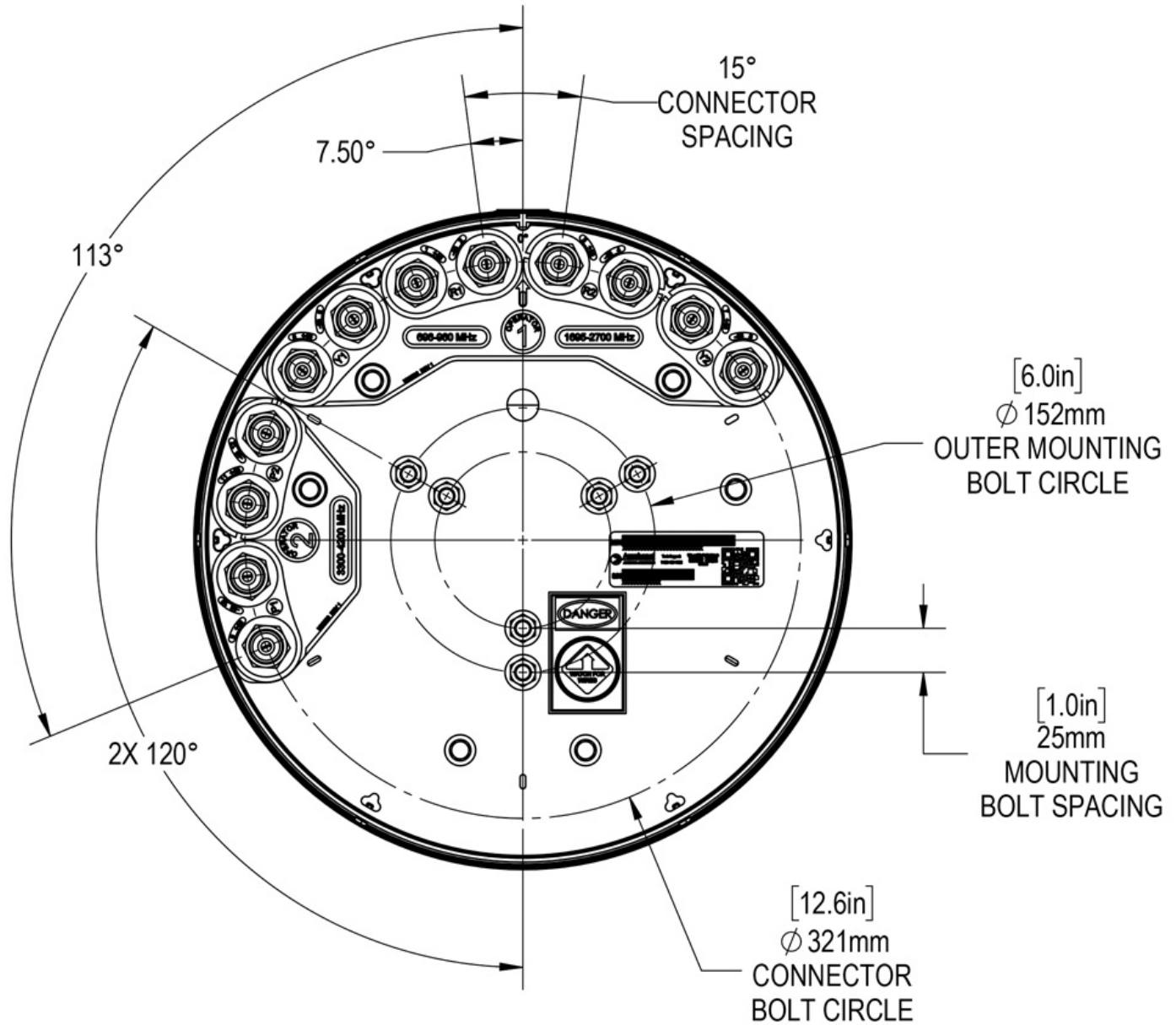
### BOTTOM VIEW - LABELING



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.

# 2C2U2VT360X05Fwxys4

## 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.

## 2C2U2VT360X05Fwxys4

**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	 <p>SIDE MOUNTING BRACKET KIT FOR CANISTER ANTENNA</p>
CWT-MKS-TOP	 <p>TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA</p>
WB3X-MKS-01	 <p>UTILITY POLE MOUNTING BRACKET KIT FOR CANISTER ANTENNA</p>
CWT-MKS-BASE-xx	 <p>WIDE DIAMETER POLE TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA. AVAILABLE IN BROWN, BLACK AND GREY TO MATCH ANTENNA RADOME AND/OR MOUNTING STRUCTURE.</p>

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 | 18.0 IN | FIXED TILT

## 2C2U2VT360X05Fwxy<sup>s</sup>4

### HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

NUMBER OF BANDS and OPERATING FREQUENCY			PATTERN TYPE	AZIMUTH BMWDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION
<b>2C</b>	<b>2U</b>	<b>2V</b>	<b>T</b>	<b>360</b>	<b>X</b>	<b>05</b>	<b>F</b>	<b>wxy</b>	<b>s</b>	<b>4</b>
(2x) 696-960	(2x) 1695-2700	(2x) 3300-4200	Tri-Sector	360°	XPOL	0.5 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

### ORDERING OPTIONS

Select from the following ordering options

RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			MODEL NUMBER
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	
Grey RAL 7035	0°	0°	0°	2C2U2VT360X05F000 <sup>s</sup> 4

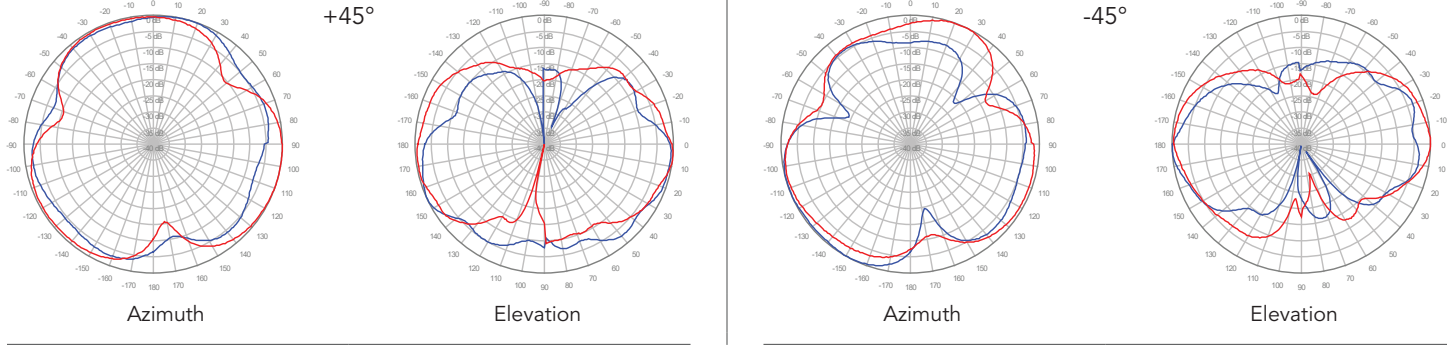
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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



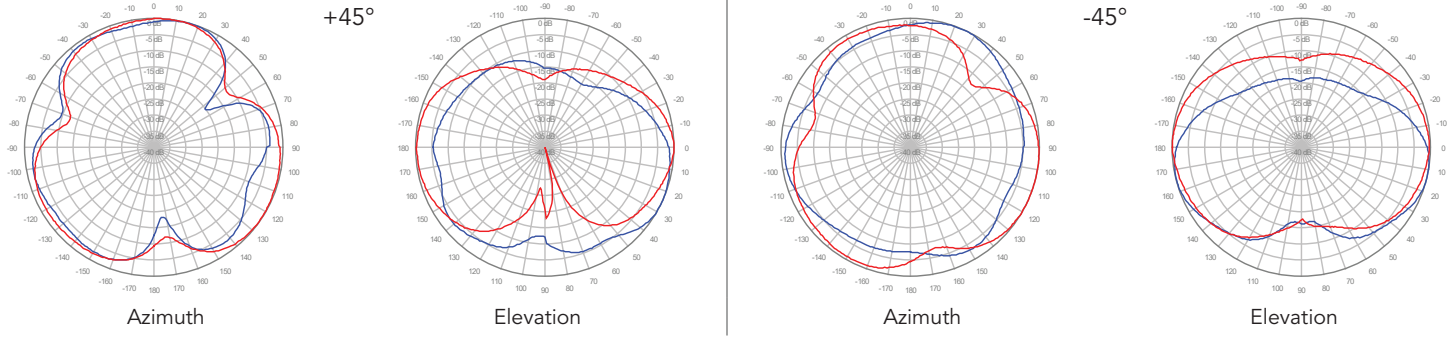
## 2C2U2VT360X05Fwxys4

750 MHz ————  
850 MHz ————

**R1, 0° TILT**



**R2, 0° TILT**

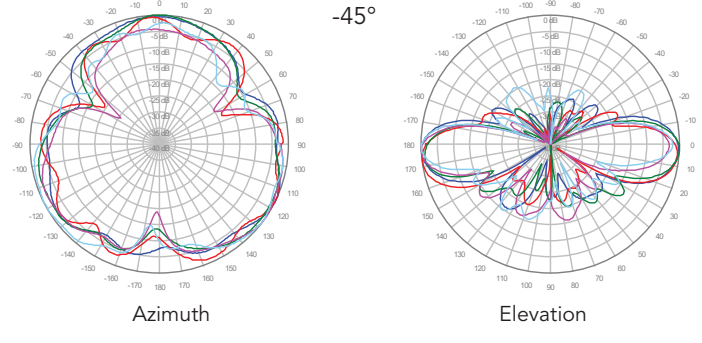
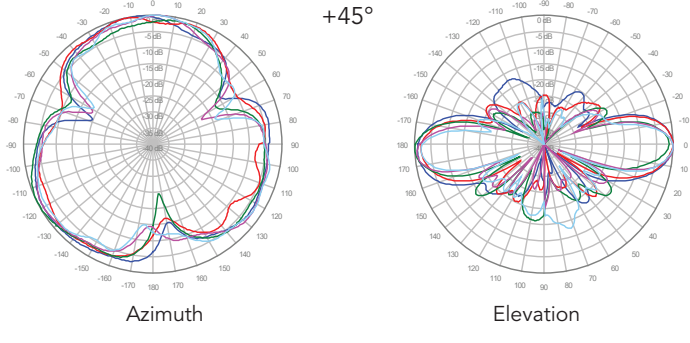


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

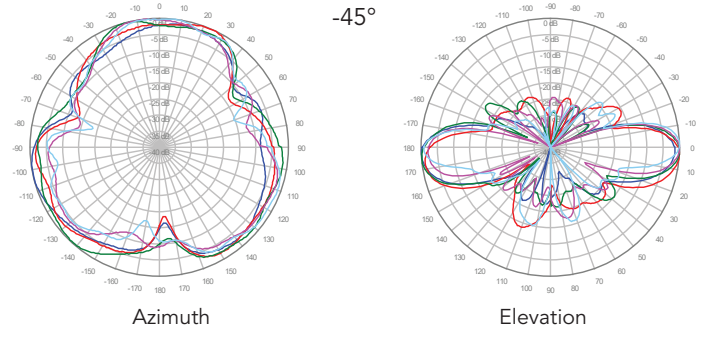
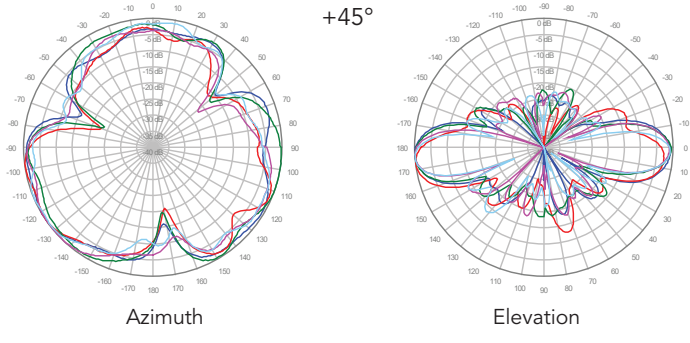
## 2C2U2VT360X05Fwxys4

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

■ Y1, 0° TILT



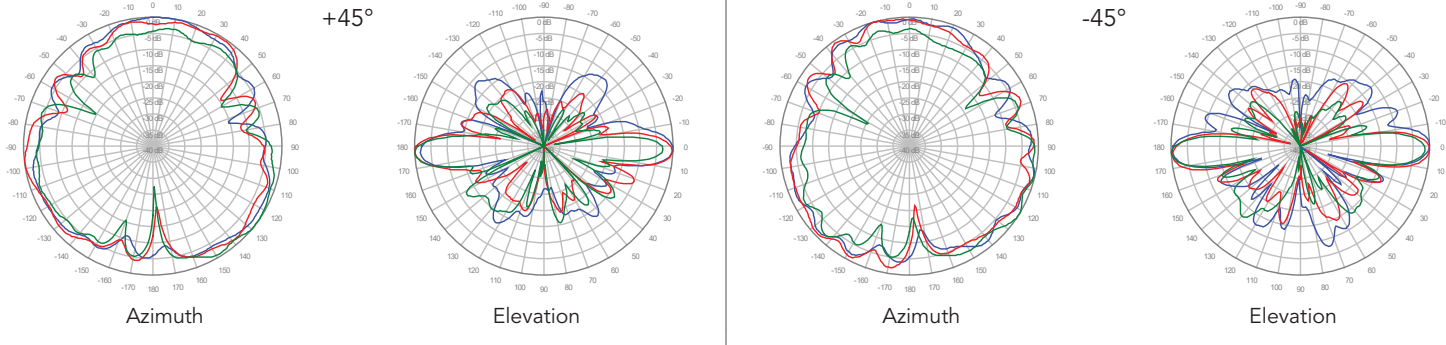
■ Y2, 0° TILT



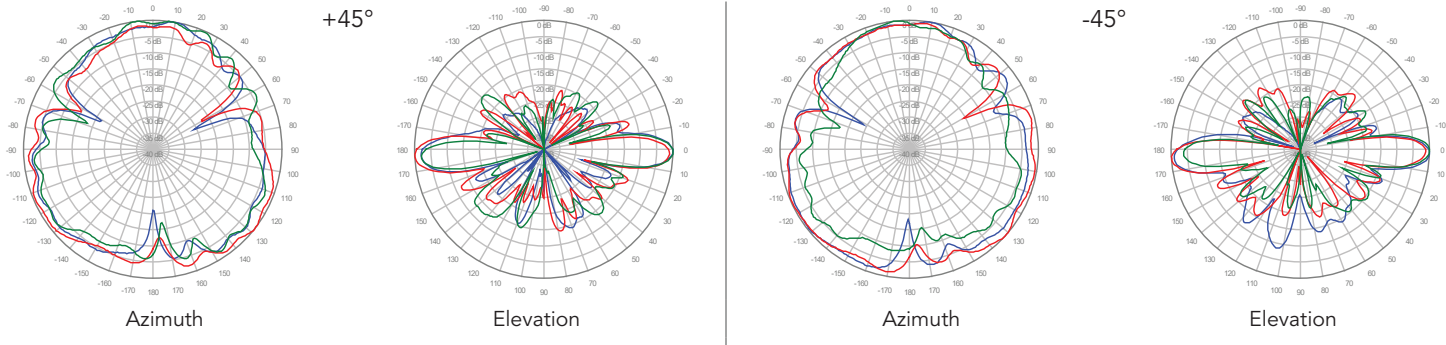
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

## 2C2U2VT360X05Fwxys4

### P1, 0° TILT



### P2, 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.