

2C2U3MT360X06Fwsys4A



Features

- Pseudo omni configuration with 14 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
- This antenna meets the requirements of the U-NII
- Available for order with a grey, brown or black radome

PRODUCT OVERVIEW	Frequency Range (MHz)	(2x) 696-960	(2x) 1695-2700	(2x) 3300-4200	(1x) 5150-5925
	Array	■ R1, ■ R2	■ Y1, ■ Y2	■ P1, ■ P2	■ O1
	Connector	4 PORTS	4 PORTS	4 PORTS	2 PORTS
	Polarization	XPOL	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°	360°	360°
	Electrical Downtilt	0°	2°, 4°, 6°	0°	0°
	Configuration	OMNI CONFIGURATION			
	Maximum Continuous Power Per Port @ 50° C (122° F)	500 WATTS	300 WATTS	100 WATTS	50 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	3700 WATTS			
	Total Connector Count	14 PORTS			
	Connector Type	4.3-10 FEMALE			
	Dimensions	607 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	4.0 ± 0.8	4.2 ± 0.7
	MAX	dBi	4.8	4.9
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	68.5° ± 11.2°	64.9° ± 36.4°
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	> 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.

2C2U3MT360X06Fwxy4A

ELECTRICAL SPECIFICATIONS

■ Y1 ■ Y2

Frequency Range		MHz	(2x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(2x) $\pm 45^\circ$			
Gain	BASTA	dBi	8.6 ± 0.8	8.9 ± 0.8	9.0 ± 0.9	10.0 ± 0.7
	MAX	dBi	9.4	9.7	9.9	10.7
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	$21.6^\circ \pm 3.0^\circ$	$20.2^\circ \pm 2.0^\circ$	$18.2^\circ \pm 1.6^\circ$	$15.5^\circ \pm 2.0^\circ$
Electrical Downtilt		degrees	(x) $2^\circ, 4^\circ, 6^\circ$			
Impedance		Ohms	50Ω			
VSWR		---	$\leq 1.5:1$			
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153			
Upper Sidelobe Suppression		dB	N/A			
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28			

ELECTRICAL SPECIFICATIONS

■ P1 ■ P2

Frequency Range		MHz	(2x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(2x) $\pm 45^\circ$		
Gain	BASTA	dBi	7.5 ± 0.8	8.5 ± 1.1	9.6 ± 1.0
	MAX	dBi	8.3	9.6	10.6
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	$19.3^\circ \pm 1.3^\circ$	$18.1^\circ \pm 1.8^\circ$	$16.2^\circ \pm 2.1^\circ$
Electrical Downtilt		degrees	(y) 0°		
Impedance		Ohms	50Ω		
VSWR		---	$\leq 1.5:1$		
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153		
Upper Sidelobe Suppression		dB	N/A		
Isolation	Intraband	dB	> 25		
	Interband	dB	> 28		

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.

2C2U3MT360X06Fwxy^s4A

ELECTRICAL SPECIFICATIONS

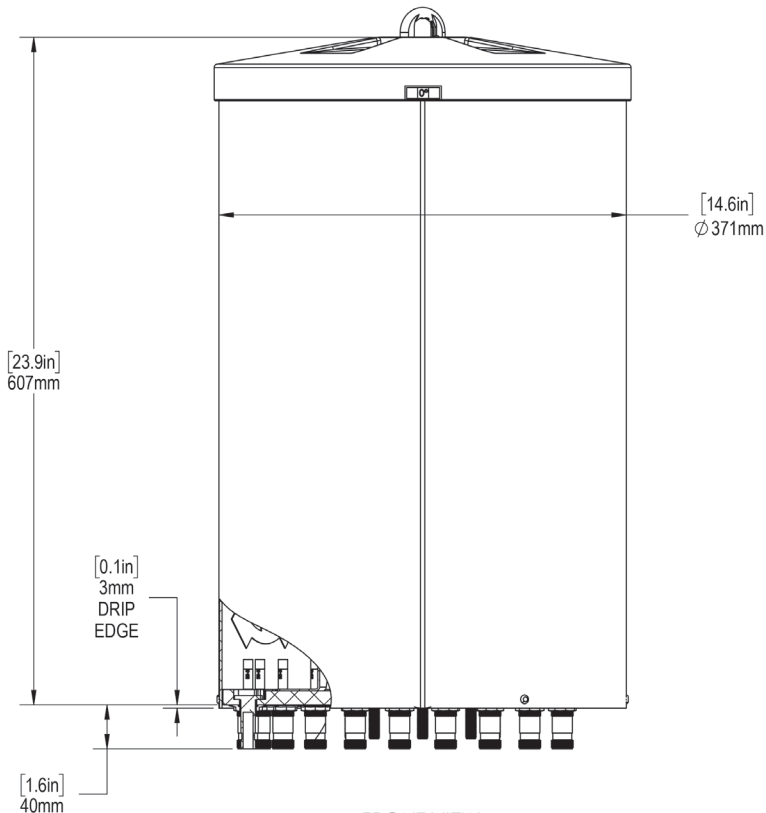
■ O1

Frequency Range		MHz	(1x) 5150-5925
Polarization		---	(1x) $\pm 45^\circ$
Gain	BASTA	dBi	4.1 ± 0.9
	MAX	dBi	5.0
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	$19.3^\circ \pm 2.3^\circ$
Electrical Downtilt		degrees	(y) 0°
Impedance		Ohms	50Ω
VSWR		---	$\leq 1.5:1$
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A
Upper Sidelobe Suppression		dB	Meets FCC requirements upper pattern control for use in LAA outdoor network
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
U-NII Compliant		---	Yes

2C2U3MT360X06FwxyS4A

MECHANICAL SPECIFICATIONS

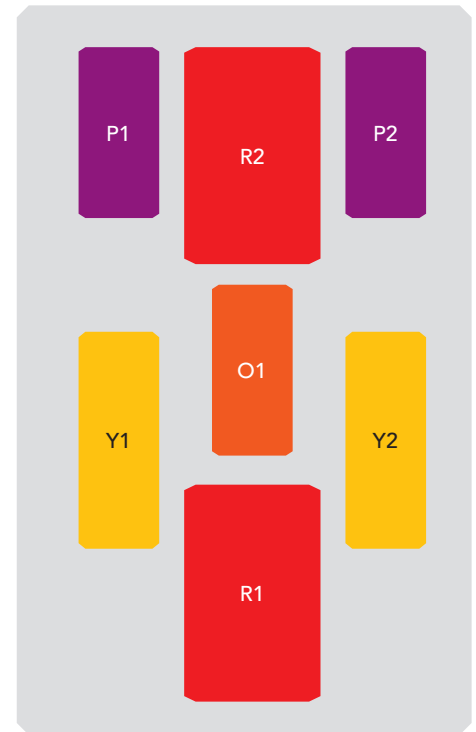
Antenna	Height	mm (in)	607 (23.9)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	11.3 (25.0)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	191 (43)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m ² (ft ²)	0.22 (2.4)
Volume		m ³ (ft ³)	0.07 (2.3)
Connector	Type	---	4.3-10 Female
	Quantity	---	14
	Position	---	Bottom
Radome Color		---	Grey (Pantone 420 C), Brown (Pantone 476 C), Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground



2C2U3MT360X06Fwxy^s4A

ARRAY LAYOUT Topology

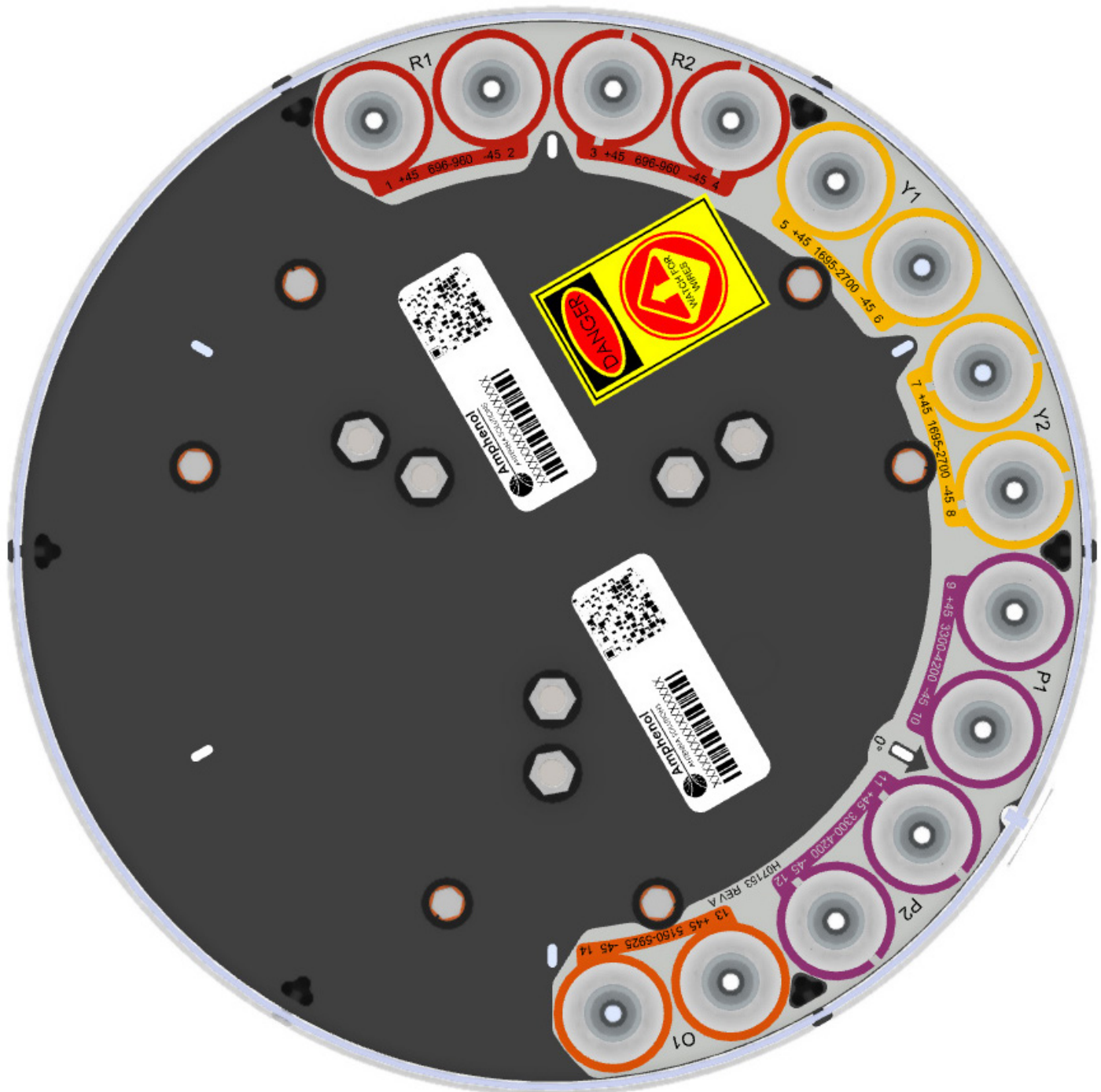
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
696-960 MHz	■ R1	1-2	(2x) 4.3-10 Female
696-960 MHz	■ R2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	■ Y1	5-6	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	7-8	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	9-10	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	11-12	(2x) 4.3-10 Female
5150-5925 MHz	■ O1	13-14	(2x) 4.3-10 Female



The illustration is not shown to scale.

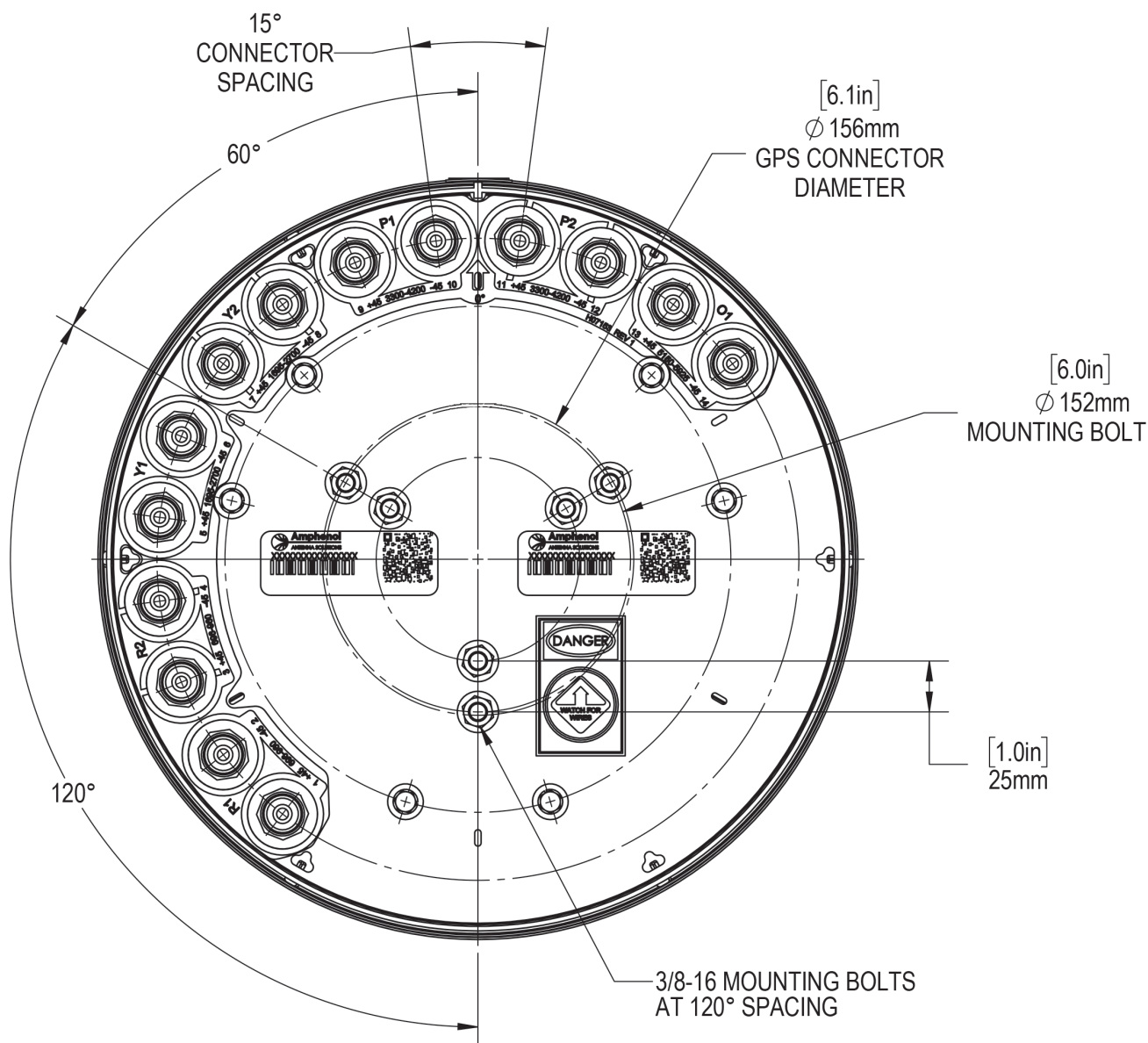
2C2U3MT360X06Fwxy4A

BOTTOM VIEW - LABELING



2C2U3MT360X06Fwxys4A

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.

2C2U3MT360X06Fwxys4A

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.

2C2U3MT360X06Fwxy^s4A

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

NUMBER OF BANDS and OPERATING FREQUENCY				PATTERN TYPE	AZIMUTH BMWIDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
2C	2U	3M		T	360	X	06	F	wxy	s	4A	BK BR
(2x) 696-960	(2x) 1695-2700	(2x) 3300-4200	(1x) 5150-5925	Tri-Sector	360° Omni	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 mechanical package The letter "A" indicates this is a variation of a similar antenna. Refer to data sheets to compare differences.	BK indicates a Black radome. BR indicates a Brown radome. The default radome color is Grey. No letters are required for a Grey radome.

ORDERING OPTIONS Select from the following ordering options

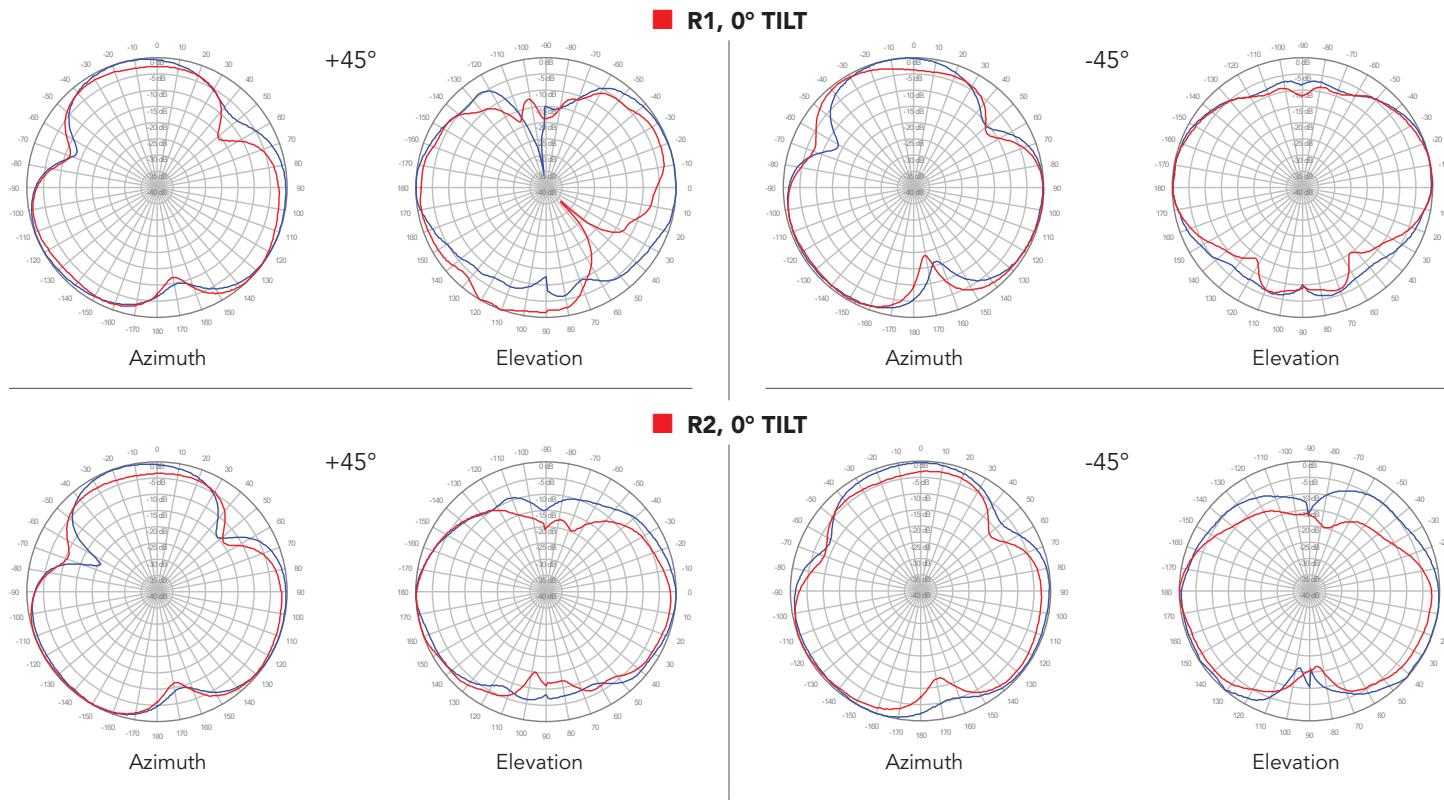
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND				ORDER MODEL NUMBER
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	
Grey Pantone 420 C	0°	2°	0°	0°	2C2U3MT360X06F020s4A
	0°	4°	0°	0°	2C2U3MT360X06F040s4A
	0°	6°	0°	0°	2C2U3MT360X06F060s4A
Brown Pantone 476 C	0°	2°	0°	0°	2C2U3MT360X06F020s4ABR
	0°	4°	0°	0°	2C2U3MT360X06F040s4ABR
	0°	6°	0°	0°	2C2U3MT360X06F060s4ABR
Black RAL 9011	0°	2°	0°	0°	2C2U3MT360X06F020s4ABK
	0°	4°	0°	0°	2C2U3MT360X06F040s4ABK
	0°	6°	0°	0°	2C2U3MT360X06F060s4ABK

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.

2C2U3MT360X06Fwxy_s4A

750 MHz ————

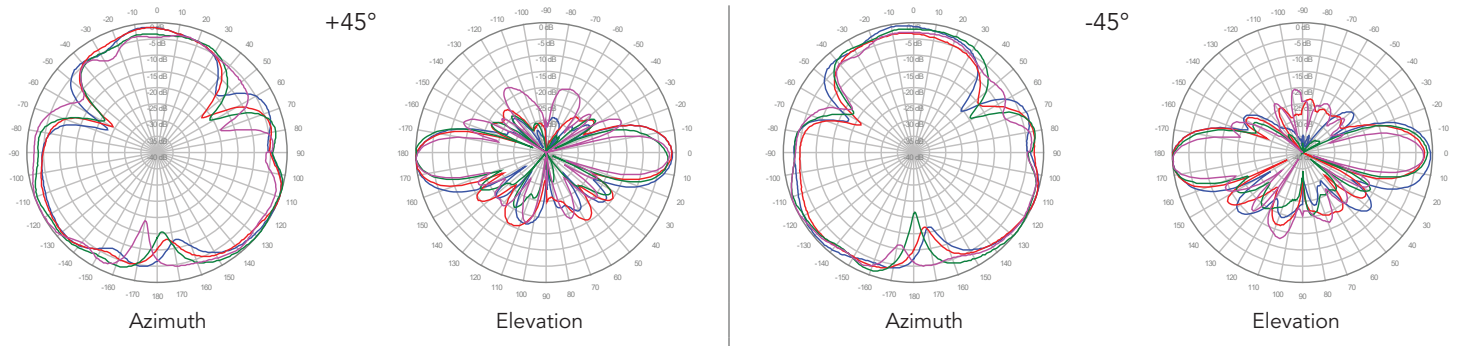
850 MHz ————



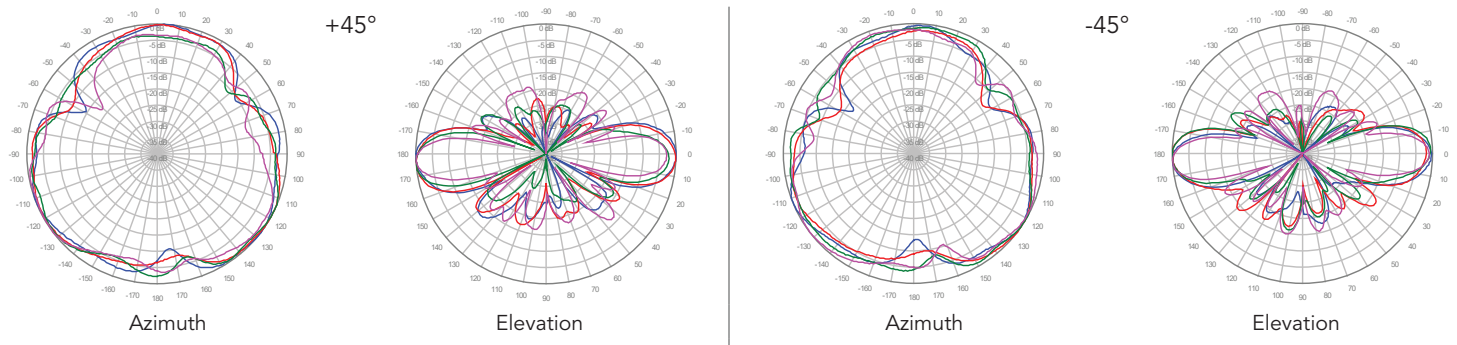
2C2U3MT360X06Fwxys4A

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

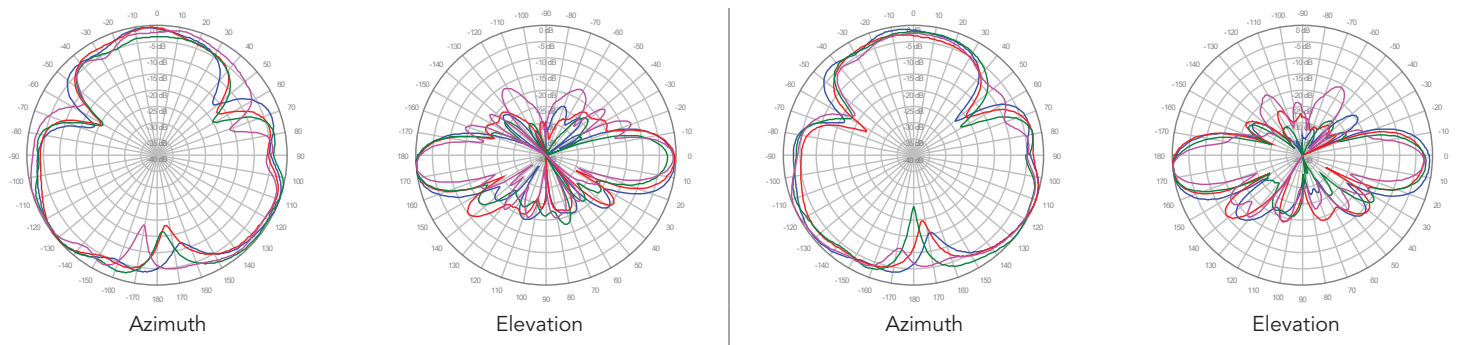
Y1, 2° TILT



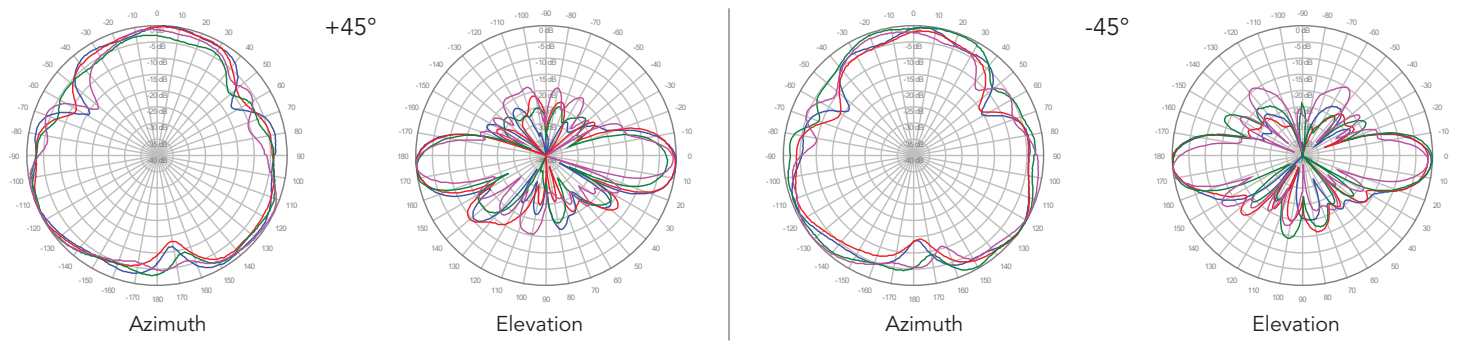
Y2, 2° TILT



Y1, 4° TILT



Y2, 4° TILT

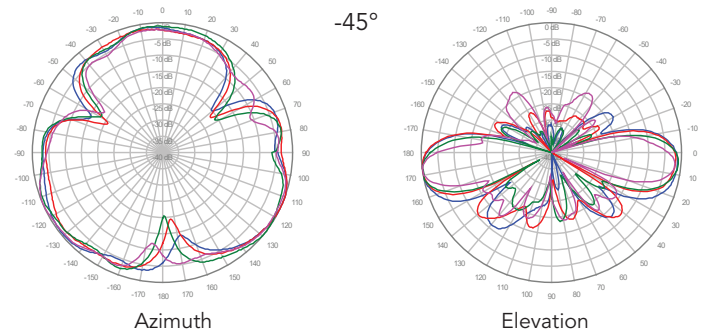
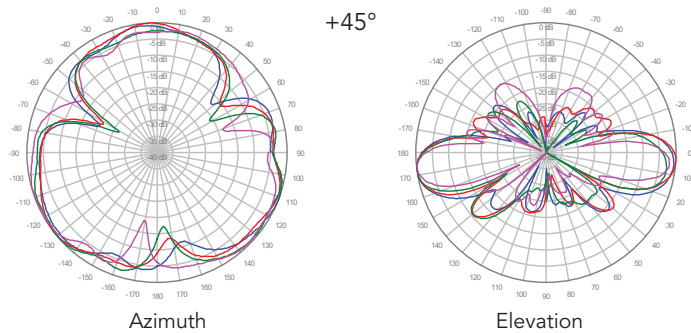


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

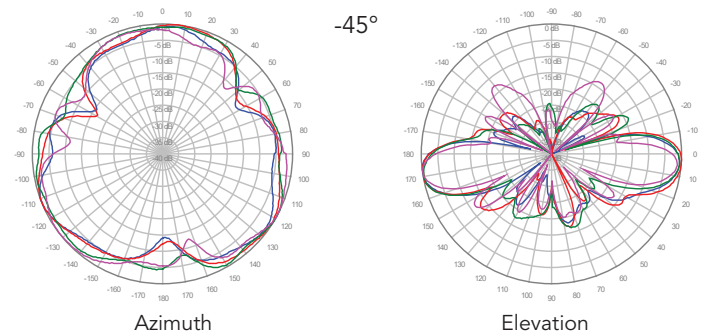
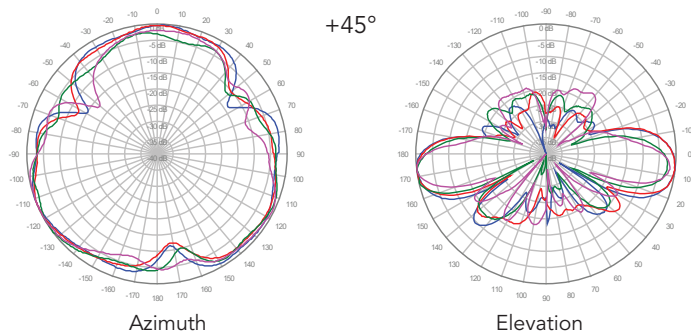
2C2U3MT360X06FwxyS4A

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

■ Y1, 6° TILT



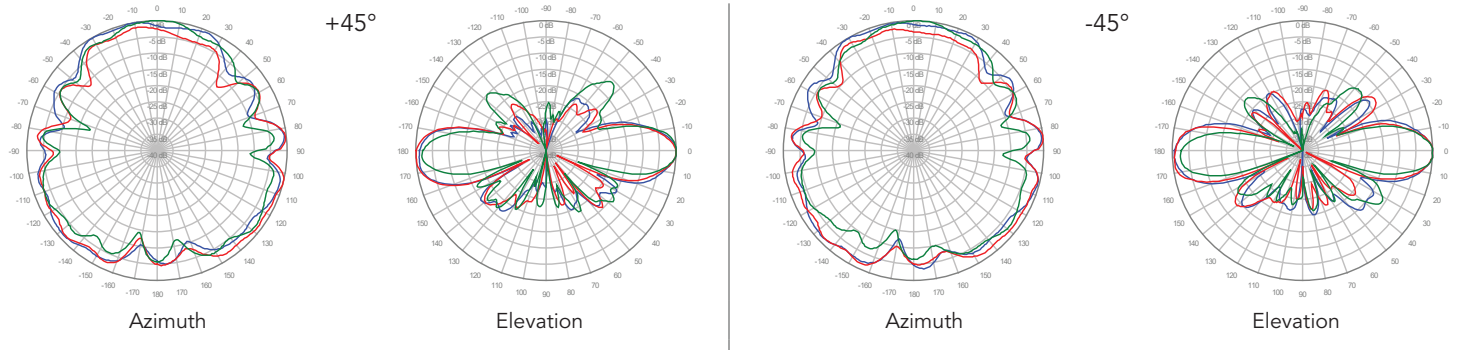
■ Y2, 6° TILT



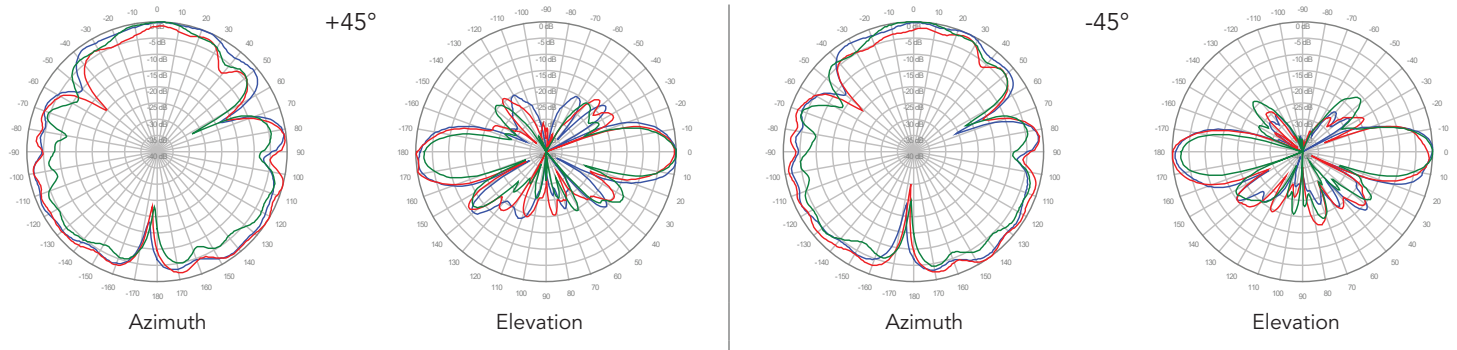
2C2U3MT360X06FwxyS4A

3400 MHz —
3600 MHz —
4000 MHz —

■ P1, 0° TILT



■ P2, 0° TILT



■ O1, 0° TILT

