

2L4U4MT360X06Fwxys4

Features

- 4G/5G pseudo omni configuration with 20 connectors
- Ideal for multi-carrier or 4x4 MIMO deployments
- New, enhanced mechanical and antenna design
 - Easily removable lifting ring
 - Extended CBRS Band
 - Improvements in gain, port isolation and VSWR
- This antenna meets the requirements of the U-NII



PRODUCT OVERVIEW	Frequency Range (MHz)	(2x) 617-906	(4x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925
	Array	■ R1 ■ R2	■ Y1 ■ Y2 ■ Y3 ■ Y4	■ P1 ■ P2	■ O1 ■ O2
	Connector	4 PORTS	8 PORTS	4 PORTS	4 PORTS
	Polarization	XPOL	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°	360°	360°
	Electrical Downtilt	0°	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)	5000 WATTS			
	Connector Type	(20x) 4.3-10 FEMALE			
	Dimensions	608 x Ø371 mm (24.0 x Ø14.6 in)			
	Radome Color Options	GREY, BROWN or BLACK			

ELECTRICAL SPECIFICATIONS

■ R1 ■ R2

Frequency Range		MHz	(2x) 617-906	
Frequency Sub-Range		MHz	617-806	806-906
Polarization		---	(2x) ±45°	
Gain	BASTA	dBi	4.4 ± 0.6	4.7 ± 0.8
	MAX	dBi	5.0	5.5
Azimuth Beamwidth (3 dB)		degrees	360°	360°
Elevation Beamwidth (3 dB)		degrees	73.0° ± 19.7°	73.2° ± 35.5°
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 same band; >30 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.

2L4U4MT360X06Fwxys4

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) $\pm 45^\circ$			
Gain	BASTA	dBi	5.9 ± 0.7	6.2 ± 0.8	6.4 ± 1.1	7.3 ± 1.2
	MAX	dBi	6.6	7.0	7.5	8.5
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	$33.8^\circ \pm 9.2^\circ$	$33.0^\circ \pm 9.8^\circ$	$30.2^\circ \pm 9.1^\circ$	$20.0^\circ \pm 6.6^\circ$
Electrical Downtilt		degrees	(x) $0^\circ, 2^\circ, 4^\circ, 6^\circ$			
Impedance		Ohms	50 Ω			
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 same band; >30 different band			

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	8.3 ± 0.8	8.2 ± 0.9	9.5 ± 1.0
	MAX	dBi	9.1	9.1	10.5
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	$18.0^\circ \pm 1.8^\circ$	$18.3^\circ \pm 2.6^\circ$	$16.4^\circ \pm 3.2^\circ$
Electrical Downtilt		degrees	(y) 0°		
Impedance		Ohms	50 Ω		
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 same band; >30 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.

2L4U4MT360X06Fwxys4

ELECTRICAL SPECIFICATIONS

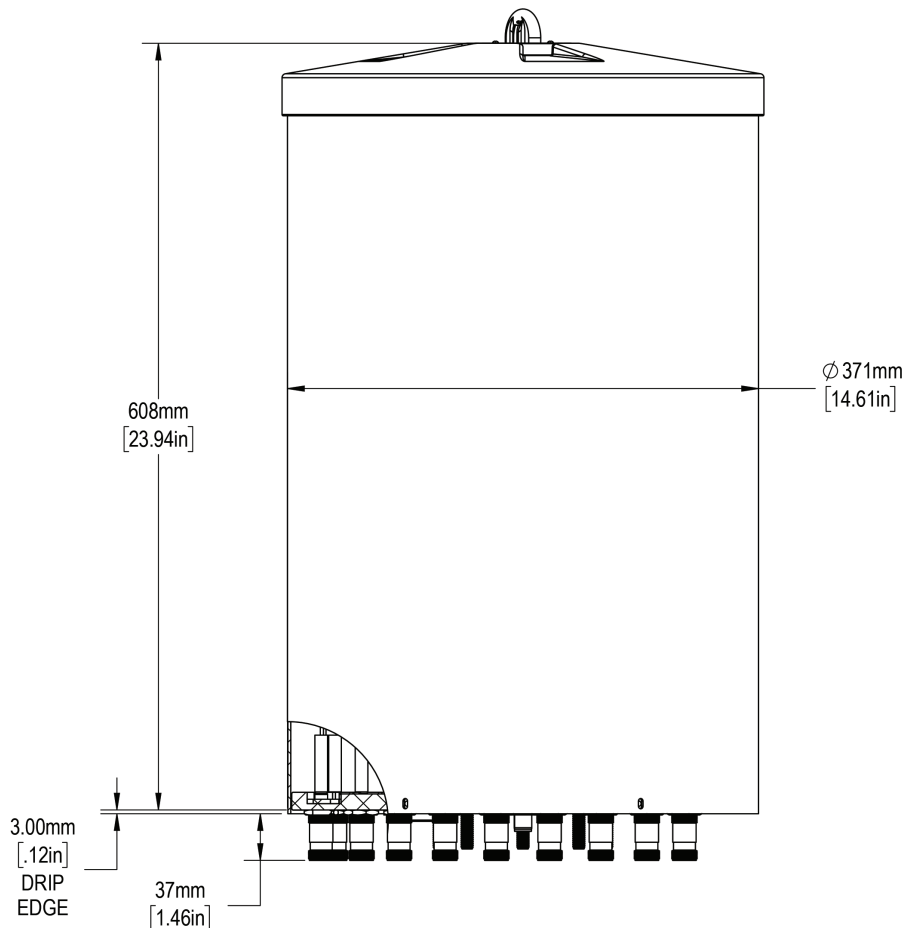
■ O1 ■ O2

Frequency Range		MHz	(2x) 5150-5925
Polarization		---	(2x) $\pm 45^\circ$
Gain	BASTA	dBi	5.3 ± 1.3
	MAX	dBi	6.6
Azimuth Beamwidth (3 dB)		degrees	360°
Elevation Beamwidth (3 dB)		degrees	$18.5^\circ \pm 2.1^\circ$
Electrical Downtilt		degrees	0°
Impedance		Ohms	50Ω
VSWR		---	$\leq 1.5:1$
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	N/A
Upper Sidelobe Suppression		dB	> 13
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
U-NII Compliant		---	Yes

2L4U4MT360X06Fwxys4

MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	608 (24.0)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	13.6 (30.0)
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
	Position	---	Bottom
Radome Color		---	Grey (RAL 7035) Brown (RAL 8022) Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground

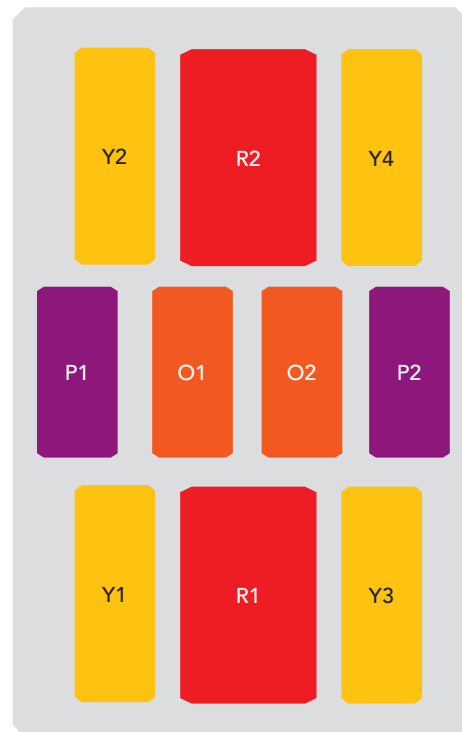


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

2L4U4MT360X06Fwxys4

ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
617-906	■ R1	1-2	(2x) 4.3-10 Female
617-906	■ R2	3-4	(2x) 4.3-10 Female
1695-2700	■ Y1	5-6	(2x) 4.3-10 Female
1695-2700	■ Y2	7-8	(2x) 4.3-10 Female
1695-2700	■ Y3	9-10	(2x) 4.3-10 Female
1695-2700	■ Y4	11-12	(2x) 4.3-10 Female
3300-4200	■ P1	13-14	(2x) 4.3-10 Female
3300-4200	■ P2	15-16	(2x) 4.3-10 Female
5150-5925	■ O1	17-18	(2x) 4.3-10 Female
5150-5925	■ O2	19-20	(2x) 4.3-10 Female



The illustration is not shown to scale.

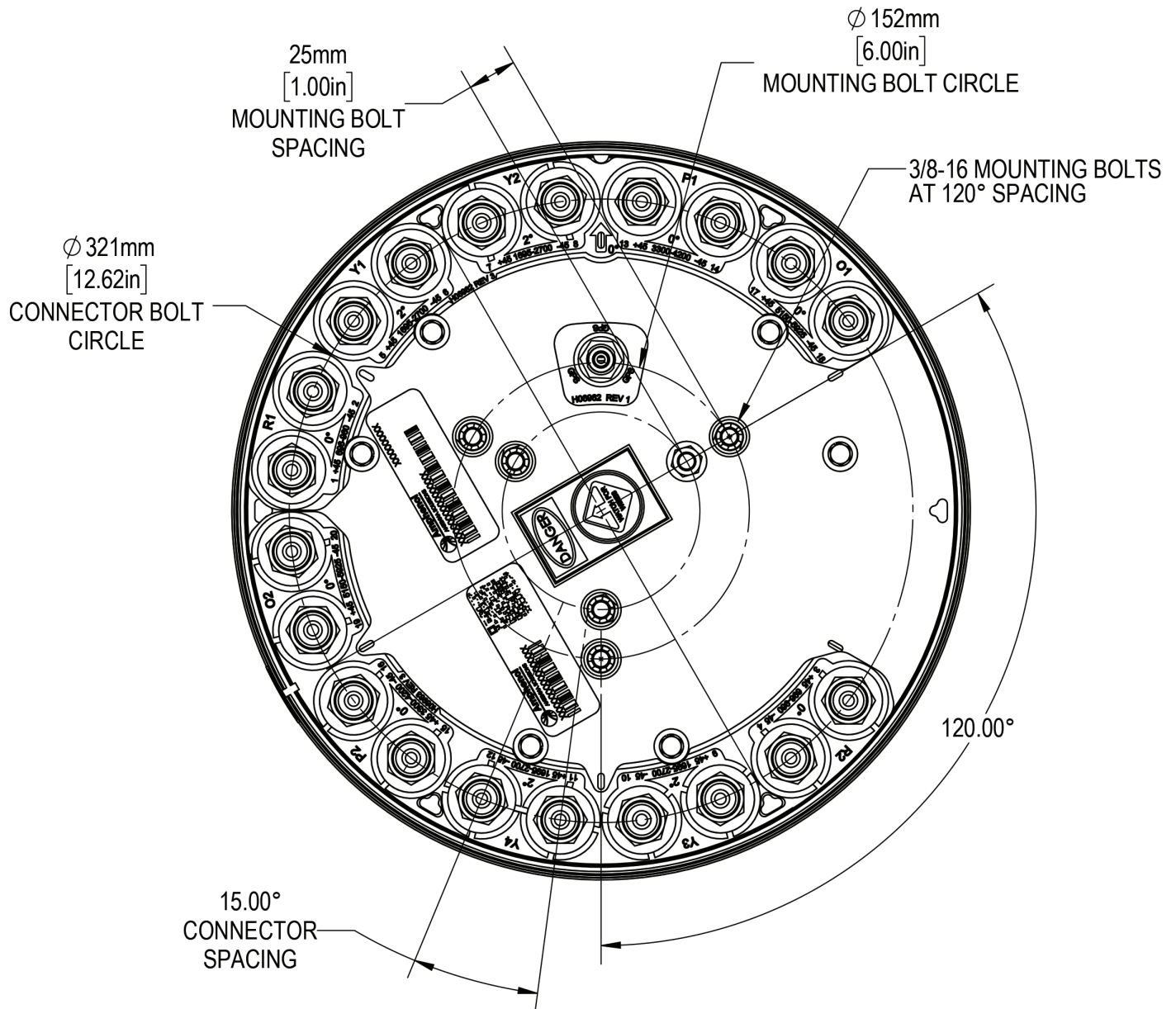
2L4U4MT360X06Fwxys4

BOTTOM VIEW - LABELING



2L4U4MT360X06Fwxys4

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.

2L4U4MT360X06Fwxys4

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.

2L4U4MT360X06Fwxy^s4

HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

NUMBER OF BANDS and OPERATING FREQUENCY				PATTERN TYPE	AZIMUTH BEAMWIDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
2L	4U	4M		T	360	X	06	F	wxy	s	4	BK BR
(2x) 617-906	(4x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925	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.

ORDERING OPTIONS

Select from the following ordering options

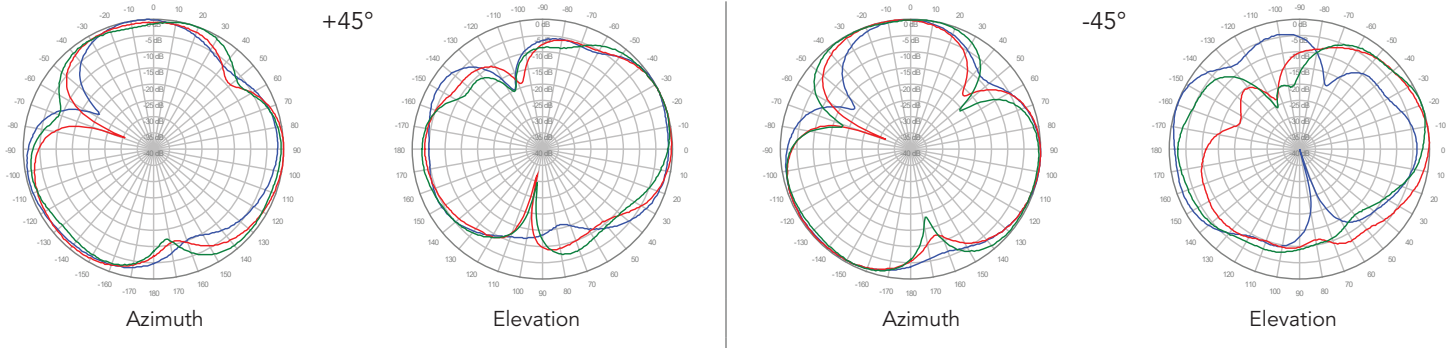
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND				MODEL NUMBER
	617-906 MHz	1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	
Grey RAL 7035	0°	0°	0°	0°	2L4U4MT360X06F000s4
	0°	2°	0°	0°	2L4U4MT360X06F020s4
	0°	4°	0°	0°	2L4U4MT360X06F040s4
	0°	6°	0°	0°	2L4U4MT360X06F060s4
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2L4U4MT360X06FAAA ^s 4
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2L4U4MT360X06FBBBs4
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2L4U4MT360X06FCCCs4
Brown RAL 8022	0°	0°	0°	0°	2L4U4MT360X06F000s4BR
	0°	2°	0°	0°	2L4U4MT360X06F020s4BR
	0°	4°	0°	0°	2L4U4MT360X06F040s4BR
	0°	6°	0°	0°	2L4U4MT360X06F060s4BR
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2L4U4MT360X06FAAA ^s 4BR
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2L4U4MT360X06FBBBs4BR
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2L4U4MT360X06FCCCs4BR
Black RAL 9011	0°	0°	0°	0°	2L4U4MT360X06F000s4BK
	0°	2°	0°	0°	2L4U4MT360X06F020s4BK
	0°	4°	0°	0°	2L4U4MT360X06F040s4BK
	0°	6°	0°	0°	2L4U4MT360X06F060s4BK
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 4°	0°	0°	2L4U4MT360X06FAAA ^s 4BK
	0°	Y1 & Y2 = 2°; Y3 & Y4 = 6°	0°	0°	2L4U4MT360X06FBBBs4BK
	0°	Y1 & Y2 = 4°; Y3 & Y4 = 6°	0°	0°	2L4U4MT360X06FCCCs4BK

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.

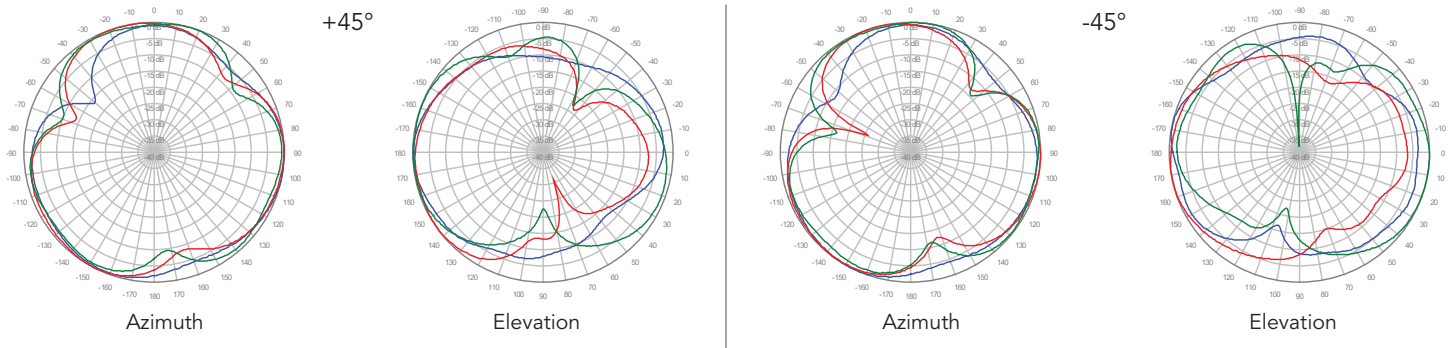
2L4U4MT360X06Fwxys4

650 MHz ———
750 MHz ———
850 MHz ———

■ R1, 0° TILT



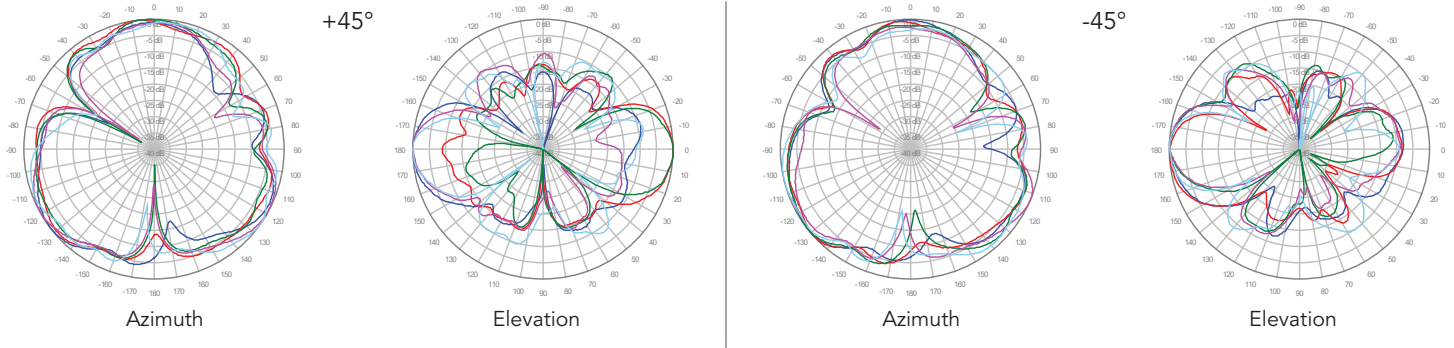
■ R2, 0° TILT



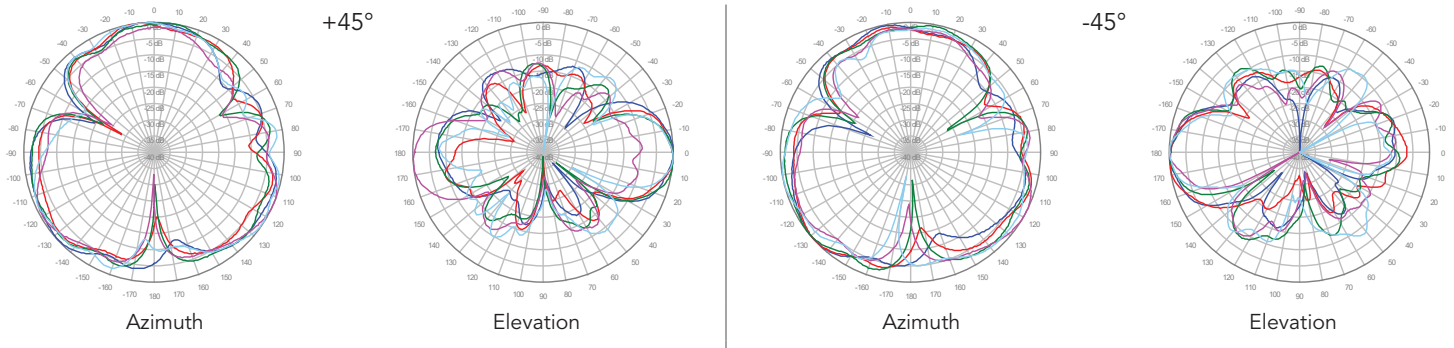
2L4U4MT360X06Fwxys4

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

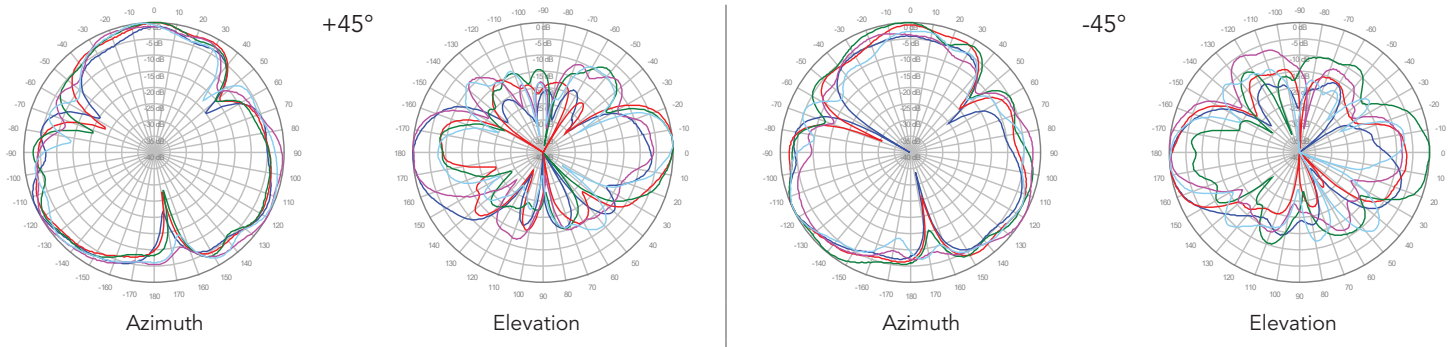
■ Y1, 2° TILT



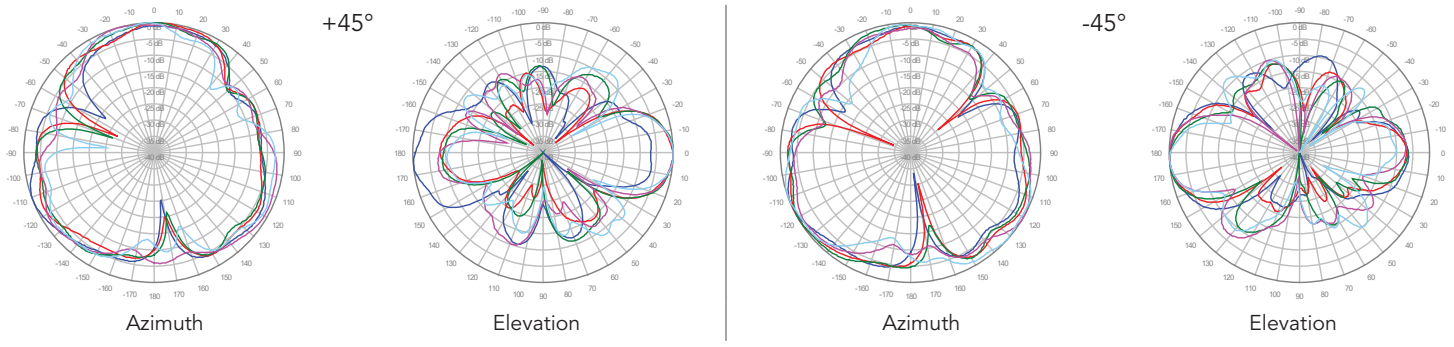
■ Y2, 2° TILT



■ Y3, 2° TILT



■ Y4, 2° TILT

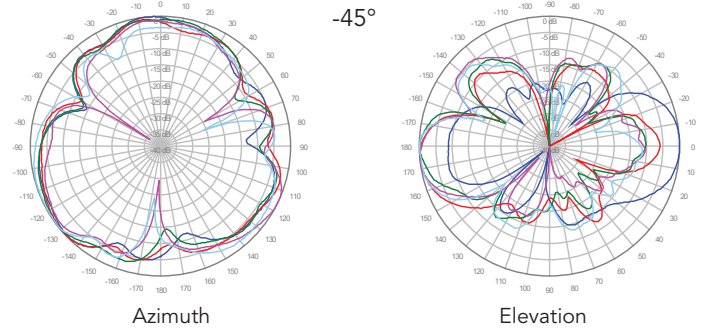
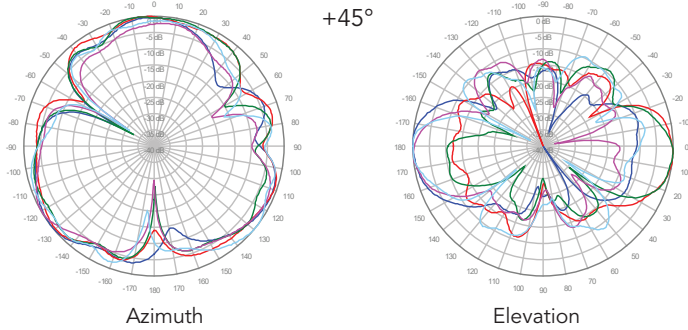


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

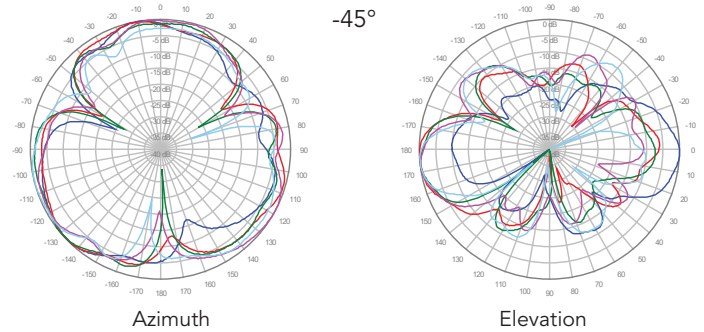
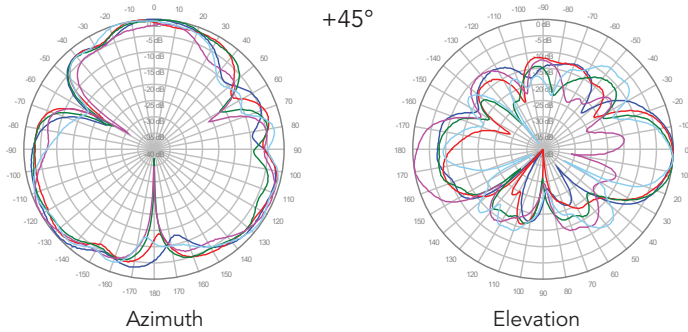
2L4U4MT360X06Fwxys4

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

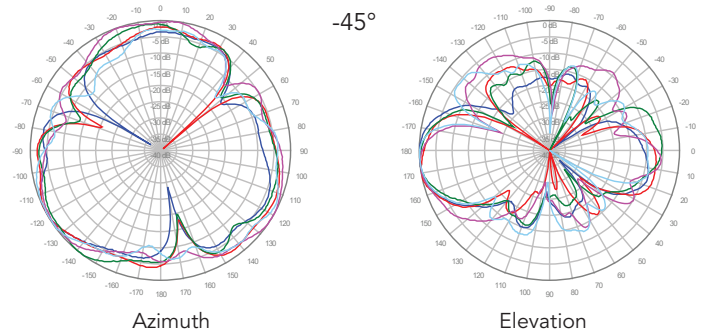
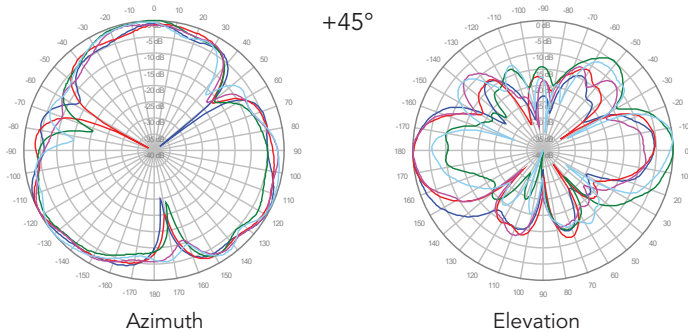
■ Y1, 4° TILT



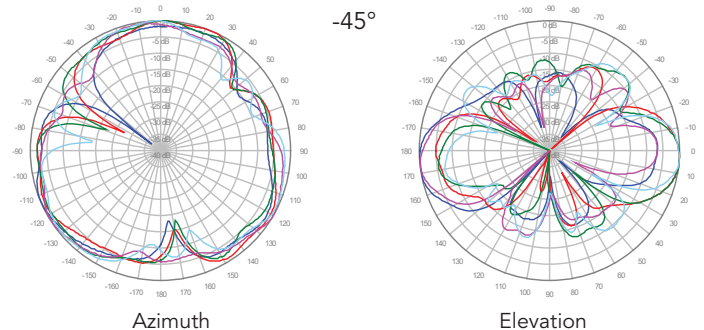
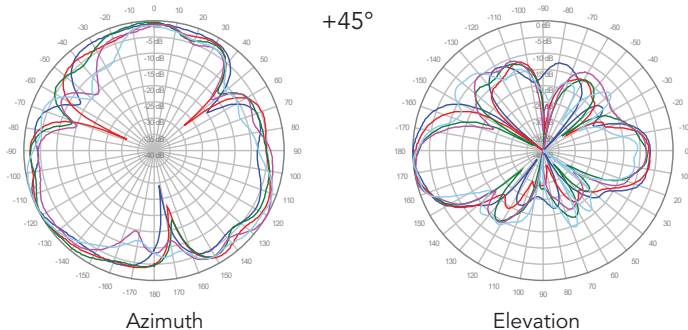
■ Y2, 4° TILT



■ Y3, 4° TILT



■ Y4, 4° TILT

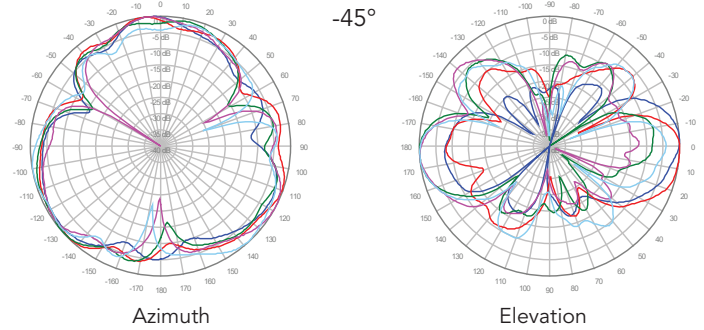
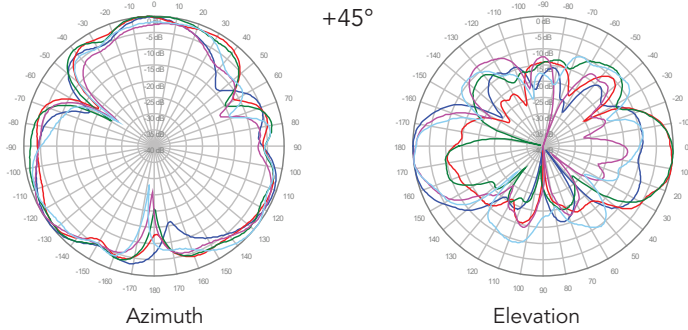


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

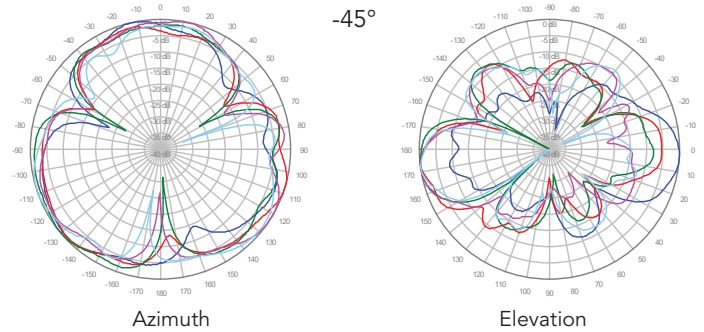
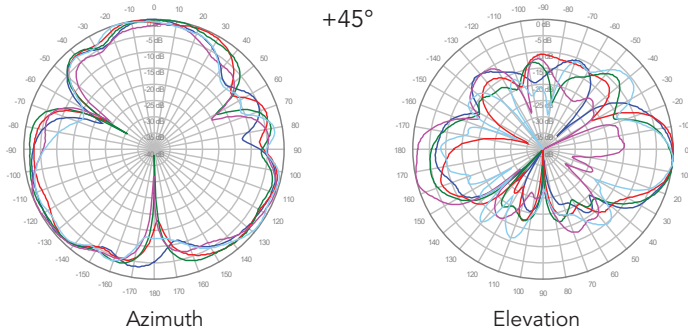
2L4U4MT360X06Fwxys4

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

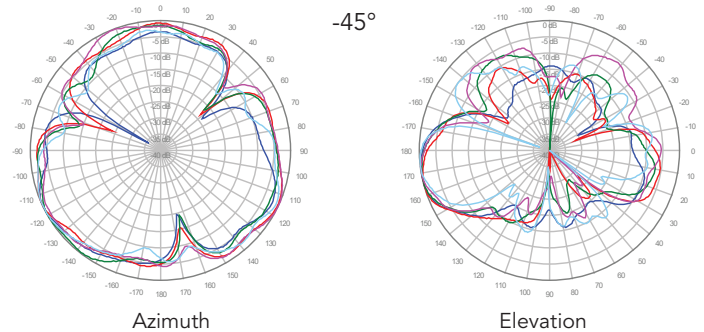
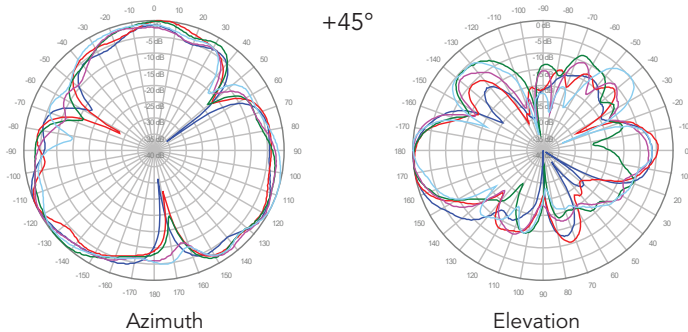
■ Y1, 6° TILT



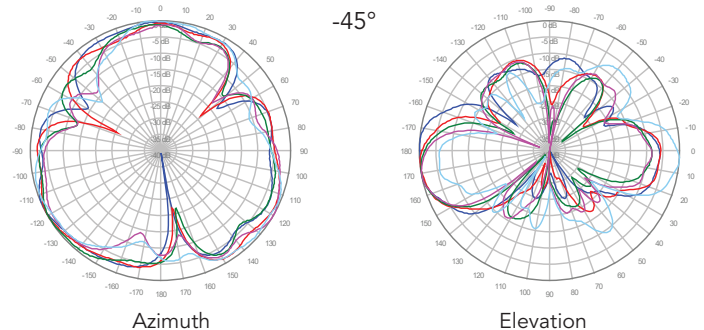
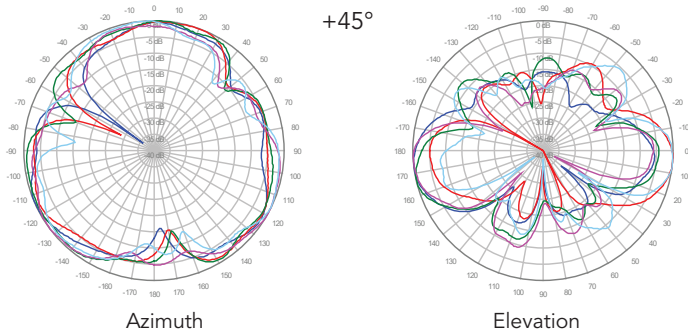
■ Y2, 6° TILT



■ Y3, 6° TILT



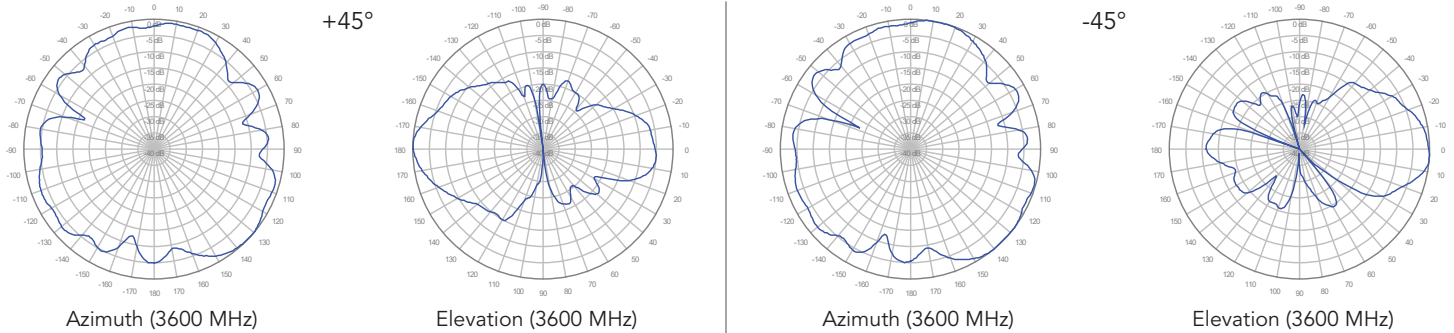
■ Y4, 6° TILT



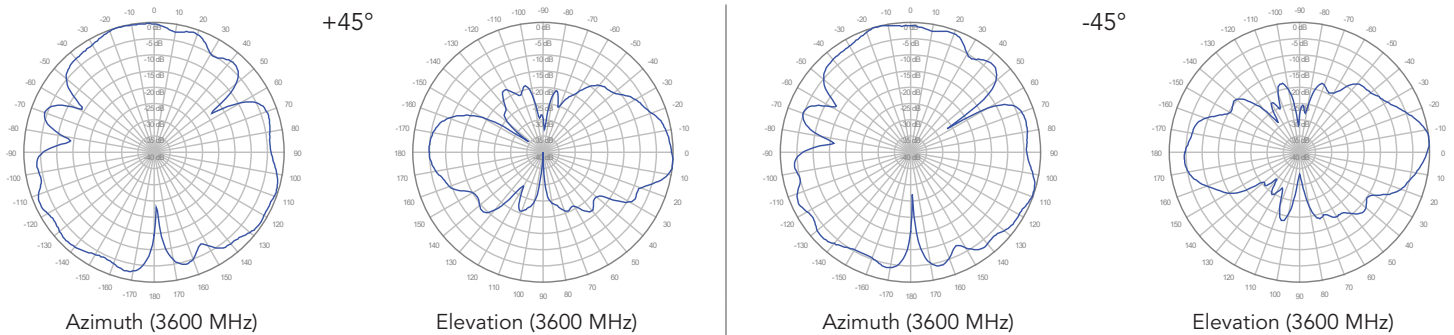
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

2L4U4MT360X06Fwxys4

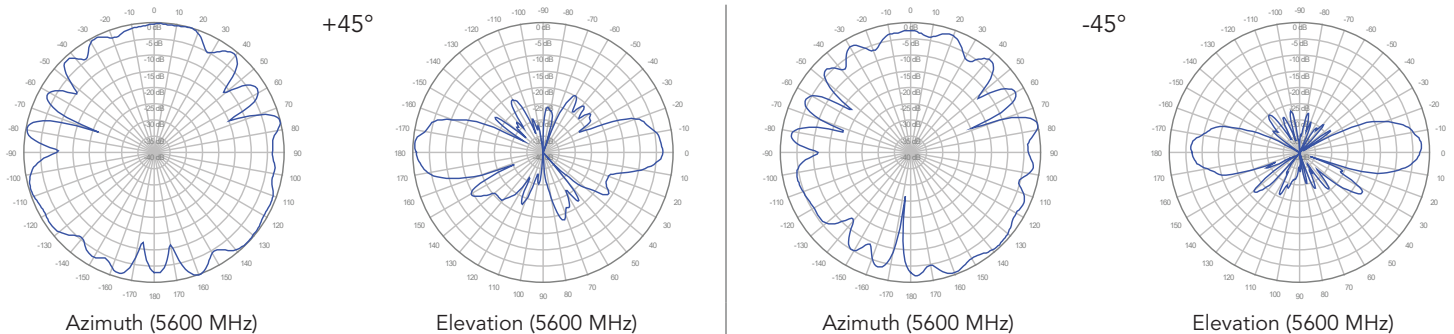
P1, 0° TILT



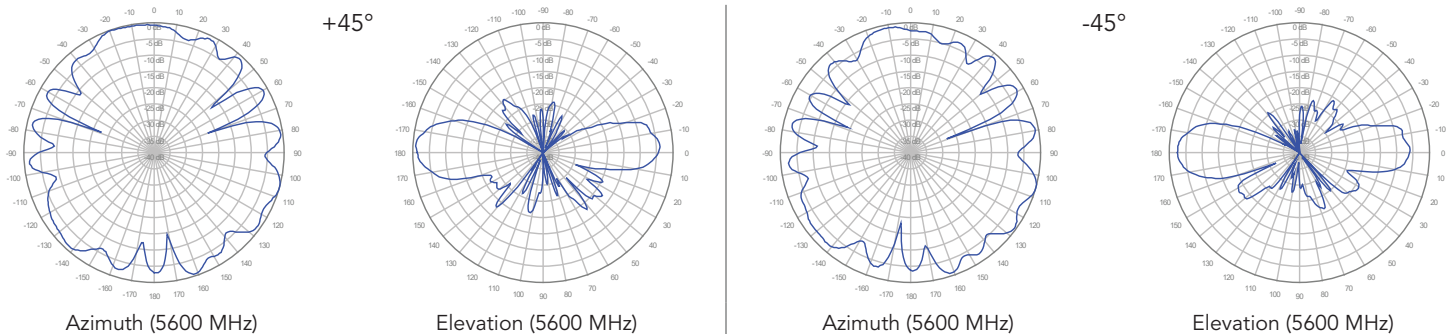
P2, 0° TILT



O1, 0° TILT



O2, 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.