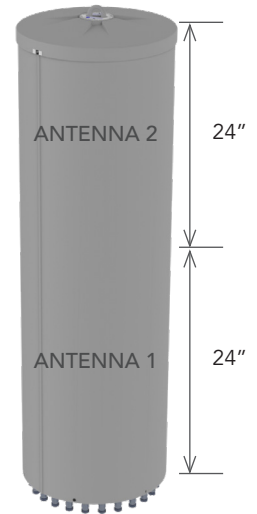


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6U4MT360X12F_{xy}s4

Features

- Pseudo omni configuration with 20 connectors
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- Broadband networks 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
- This antenna meets the requirements of the U-NII



PRODUCT OVERVIEW	Frequency Range (MHz)	(6x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925	Optional GPS BAND 1575.42 ± 10
	Array	■ Y1 ■ Y2 ■ Y3 ■ Y4 ■ Y5 ■ Y6	■ P1 ■ P2	■ O1 ■ O2	---
	Connector	12 PORTS	4 PORTS	4 PORTS	1 PORT
	Polarization	XPOL	XPOL	XPOL	RIGHT HAND CIRCULAR
	Azimuth Beamwidth (avg)	360°	360°	360°	---
	Electrical Downtilt	2°, 4°, 6°	0°	0°	---
	Configuration	OMNI CONFIGURATION			---
	Maximum Continuous Power Per Port @ 50° C (122° F)	300 WATTS	100 WATTS	50 WATTS	---
	Maximum Total Continuous Power at 50° C (122° F)	4200 WATTS			---
	Connector Type	(20x) 4.3-10 FEMALE			(1x) N-TYPE FEMALE
Dimensions	1205 x Ø371 mm (47.4 x Ø14.6 in)				
Radome Color Options	GREY, BROWN or BLACK				

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	8.8 ± 0.7	9.0 ± 0.5	9.2 ± 0.6	9.6 ± 0.7
	MAX	dBi	9.5	9.5	9.8	10.3
Azimuth Beamwidth (3 dB)	degrees	360°	360°	360°	360°	
Elevation Beamwidth (3 dB)	degrees	21.0° ± 2.6°	19.5° ± 2.1°	18.6° ± 2.2°	16.8° ± 22.6°	
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	N/A	N/A	N/A	N/A	
Isolation	Intraband	dB	> 25			
	Interband	dB	> 28			

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6U4MT360X12F_{xys}4

ELECTRICAL SPECIFICATIONS

■ P1 ■ P2

Frequency Range	MHz	(2x) 3300-4200	
Polarization	---	(2x) ±45°	
Gain	BASTA	dBi	5.8 ± 0.7
	MAX	dBi	6.5
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	27.8° ± 3.4°	
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

ELECTRICAL SPECIFICATIONS

■ O1 ■ O2

Frequency Range	MHz	(2x) 5150-5925	
Polarization	---	(2x) ±45°	
Gain	BASTA	dBi	4.6 ± 1.0
	MAX	dBi	5.6
Azimuth Beamwidth (3 dB)	degrees	360°	
Elevation Beamwidth (3 dB)	degrees	21.2° ± 3.8°	
Electrical Downtilt	degrees	(y) 0°	
Impedance	Ohms	50Ω	
VSWR	---	≤ 1.5:1	
Passive Intermodulation 3rd Order for 2x20 W Carriers	dBc	N/A	
Upper Sidelobe Suppression	dB	> 11	
Isolation	Intraband	dB	> 25
	Interband	dB	> 28
U-NII Compliant	---	Yes	

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6U4MT360X12F_{xys}4

INTEGRATED GPS UNIT OPTIONAL

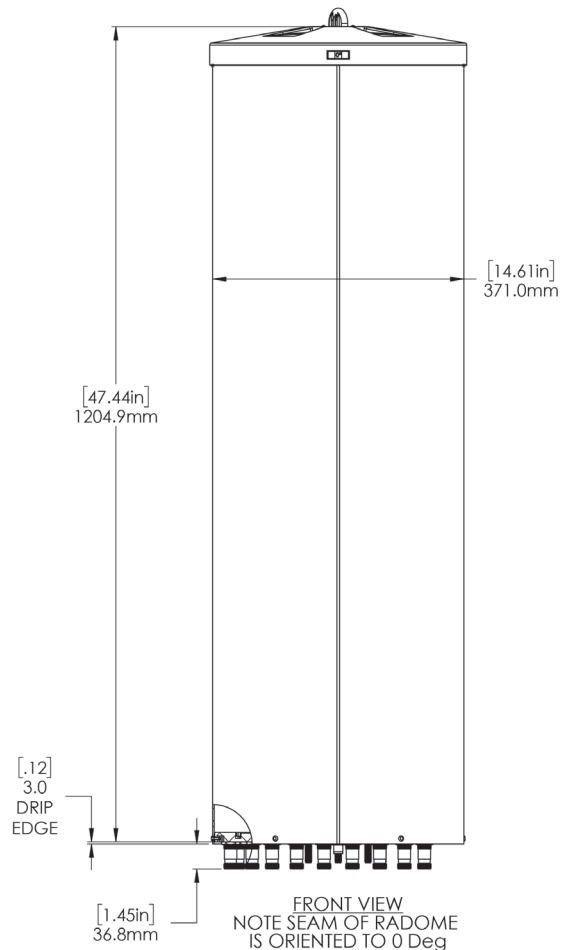
Frequency Range	1575.42 MHz ± 10 MHz
Polarization	Right Hand Circular
Nominal Gain	3 dBic at 90°; -2 dBic at 20°
Current Draw	22 mA @ 5V
Out-of-Band Rejection	> 55 dB at 1559 MHz; > 60 dB at 1625 MHz
Amplifier Gain	28 dB ± 3 dB
Nominal Impedance	50 ohm
Noise Figure	3.9 dB
DC Voltage	2.7-5.5 VDC
VSWR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

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6U4MT360X12F_{xys4}

MECHANICAL SPECIFICATIONS

Height	mm (in)	1205 (47.4)	
Diameter	mm (in)	371 (14.6)	
Net Weight - Antenna Only	kg (lbs)	19.1 (42.0)	
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	391 (88)
Survival Wind Speed	km/h (mph)	241 (150)	
Wind Area	m ² (ft ²)	0.47 (5.0)	
Volume	Total	m ³ (ft ³)	0.13 (4.7)
	Each Antenna	m ³ (ft ³)	0.065 (2.33)
Connector	Type & Quantity	---	(20x) 4.3-10 Female; (1x) N-Type Female with optional GPS Unit
	Position	---	Bottom
Radome Color	---	---	Grey (Pantone 420 C) Brown (Pantone 476 C) Black (RAL 9011)
Lightning Protection (Grounding Type)	---	---	Direct Ground

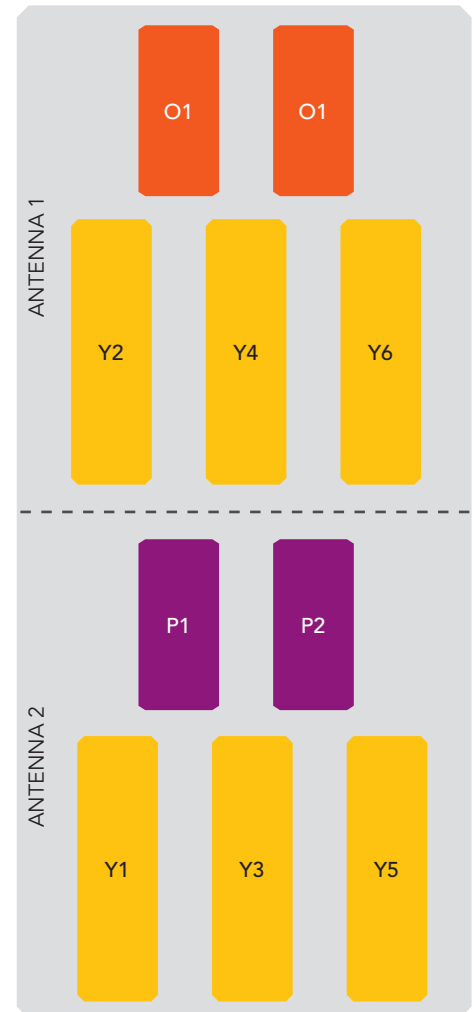


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6U4MT360X12F_{xys4}

ARRAY LAYOUT Topology

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
1695-2700 MHz	■ Y1	1-2	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	■ Y3	5-6	(2x) 4.3-10 Female
1695-2700 MHz	■ Y4	7-8	(2x) 4.3-10 Female
1695-2700 MHz	■ Y5	9-10	(2x) 4.3-10 Female
1695-2700 MHz	■ Y6	11-12	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	13-14	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	15-16	(2x) 4.3-10 Female
5150-5925 MHz	■ O1	17-18	(2x) 4.3-10 Female
5150-5925 MHz	■ O2	19-20	(2x) 4.310 Female
Optional GPS BAND 1575.42 MHz	---	---	(1x) N-Type Female



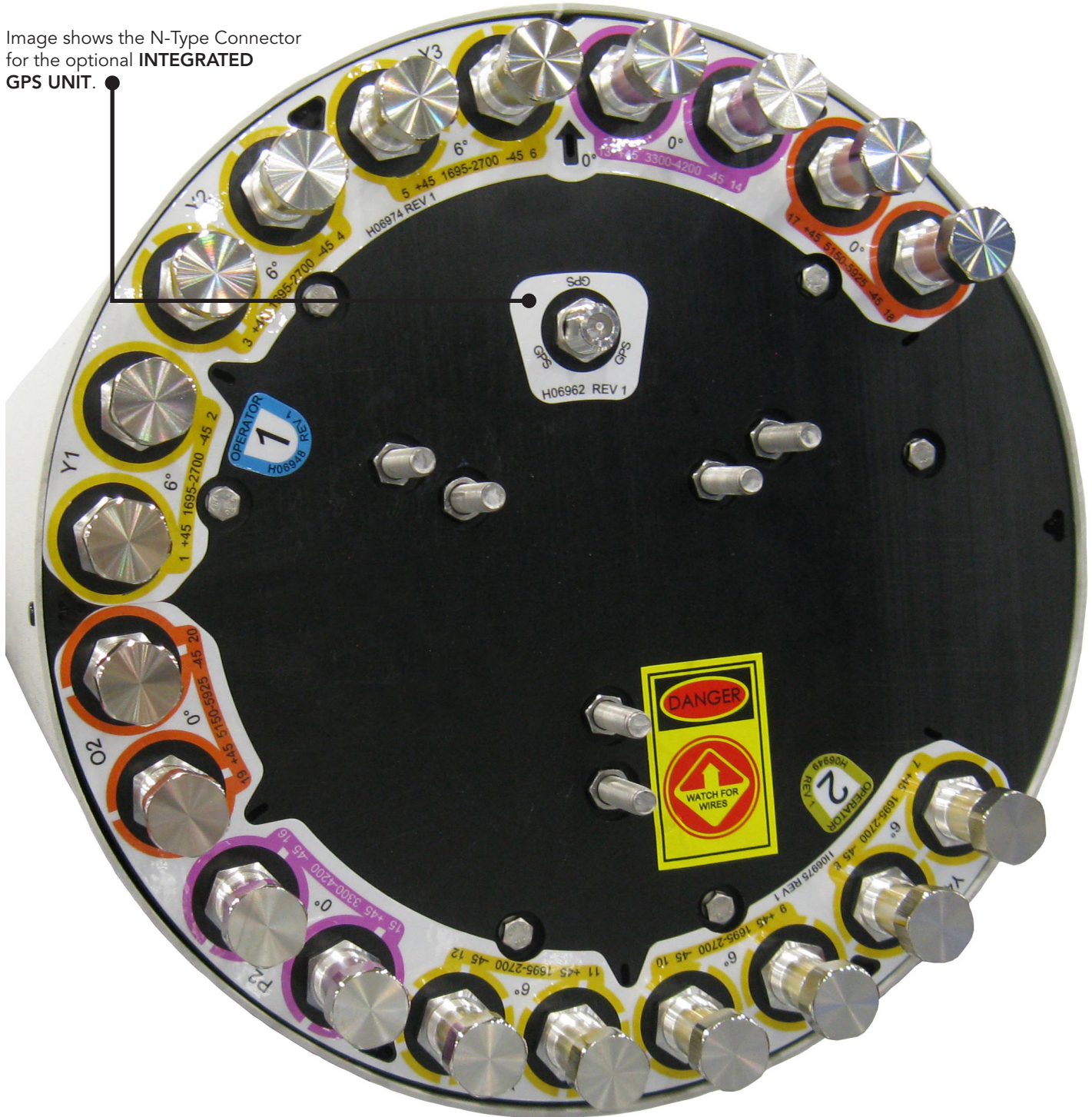
The illustration is not shown to scale.

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6U4MT360X12F_{xy}s4

BOTTOM VIEW - LABELING

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

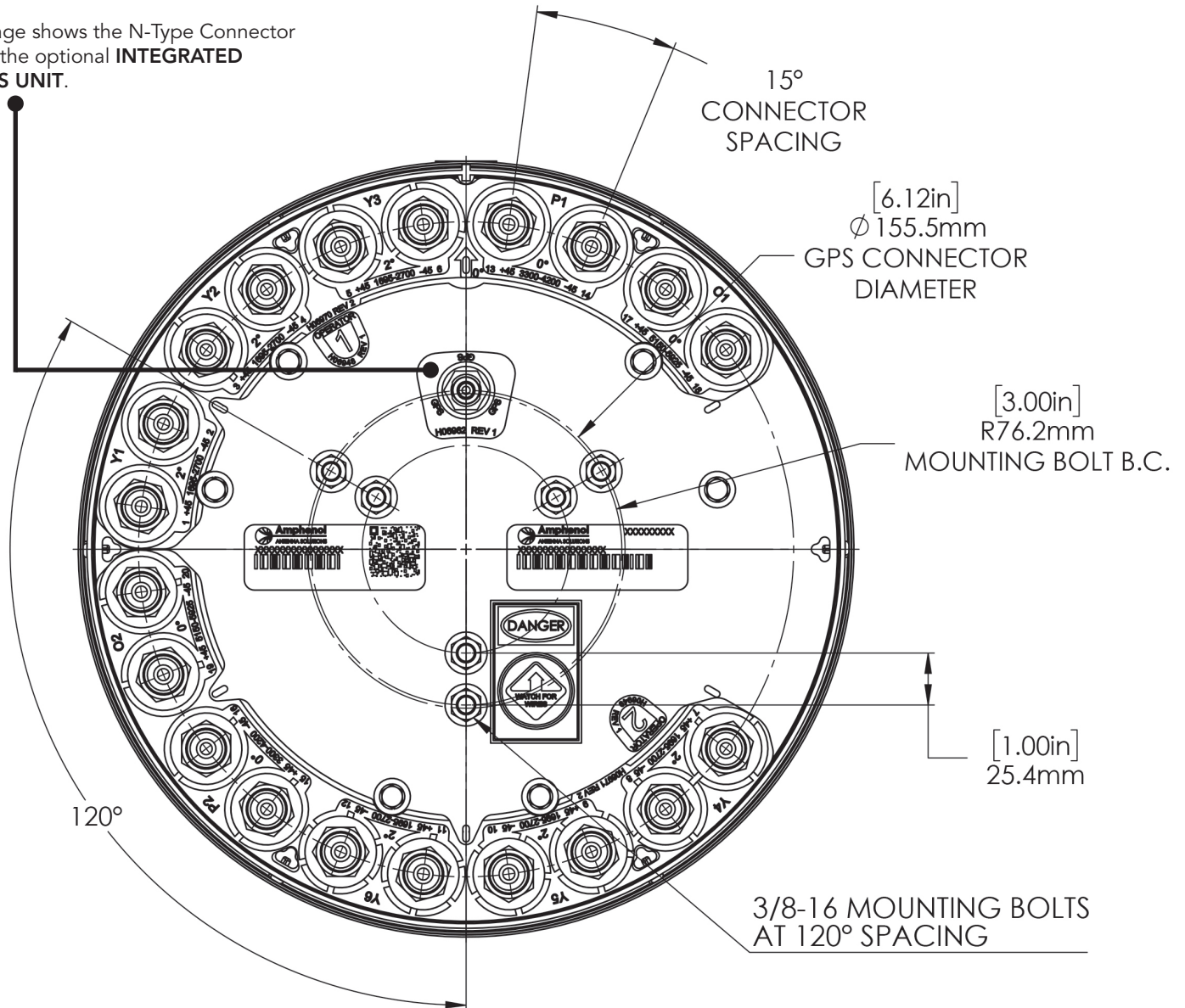


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6U4MT360X12F_{xy}s4

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.

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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>

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6U4MT360X12F_{xy}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	
6U			4M	T	360	X	12	F	xy	s	4	BK BR	-GPS
(6x) 1695-2700	(2x) 3300-4200	(2x) 5150-5925	Tri-Sector	360°	XPOL	1.2 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

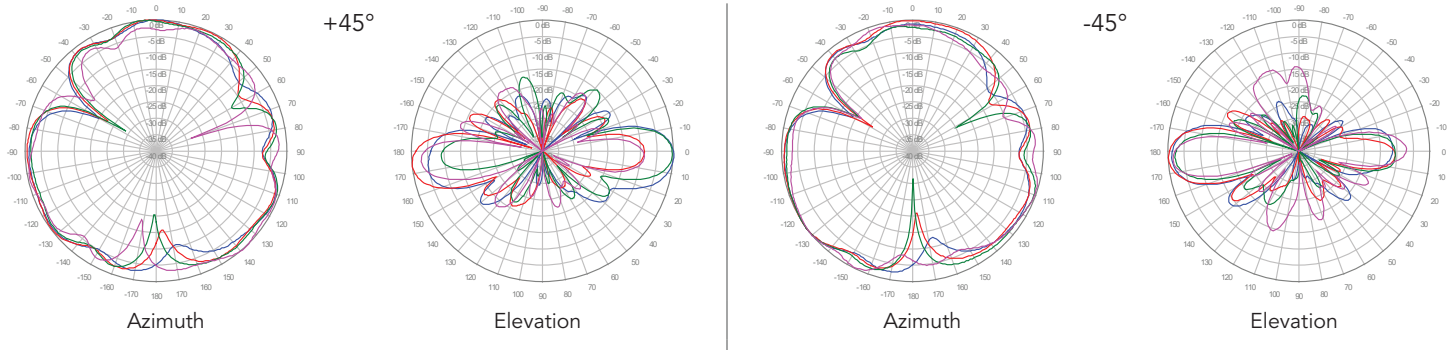
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND			SELECT ANTENNA TYPE	
	1695-2700 MHz	3300-4200 MHz	5150-5925 MHz	WITHOUT GPS UNIT	WITH GPS UNIT
Grey Pantone 420 C	2°	0°	0°	6U4MT360X12F20s4	6U4MT360X12F20s4-GPS
	4°	0°	0°	6U4MT360X12F40s4	6U4MT360X12F40s4-GPS
	6°	0°	0°	6U4MT360X12F60s4	6U4MT360X12F60s4-GPS
	Y1, Y3, Y4, Y6=2°; Y2, Y5=6°	0°	0°	6U4MT360X12FAAs4	6U4MT360X12FAAs4-GPS
	Y1, Y3, Y4, Y6=2°; Y2, Y5=4°	0°	0°	6U4MT360X12FBBs4	6U4MT360X12FBBs4-GPS
	Y1, Y3, Y4, Y6=4°; Y2, Y5=6°	0°	0°	6U4MT360X12FCCs4	6U4MT360X12FCCs4-GPS
Brown Pantone 476 C	2°	0°	0°	6U4MT360X12F20s4BR	6U4MT360X12F20s4BR-GPS
	4°	0°	0°	6U4MT360X12F40s4BR	6U4MT360X12F40s4BR-GPS
	6°	0°	0°	6U4MT360X12F60s4BR	6U4MT360X12F60s4BR-GPS
	Y1, Y3, Y4, Y6=2°; Y2, Y5=6°	0°	0°	6U4MT360X12FAAs4BR	6U4MT360X12FAAs4BR-GPS
	Y1, Y3, Y4, Y6=2°; Y2, Y5=4°	0°	0°	6U4MT360X12FBBs4BR	6U4MT360X12FBBs4BR-GPS
		0°	0°	6U4MT360X12FCCs4BR	6U4MT360X12FCCs4BR-GPS
Black RAL 9011	2°	0°	0°	6U4MT360X12F20s4BK	6U4MT360X12F20s4BK-GPS
	4°	0°	0°	6U4MT360X12F40s4BK	6U4MT360X12F40s4BK-GPS
	6°	0°	0°	6U4MT360X12F60s4BK	6U4MT360X12F60s4BK-GPS
	Y1, Y3, Y4, Y6=2°; Y2, Y5=6°	0°	0°	6U4MT360X12FAAs4BK	6U4MT360X12FAAs4BK-GPS
	Y1, Y3, Y4, Y6=2°; Y2, Y5=4°	0°	0°	6U4MT360X12FBBs4BK	6U4MT360X12FBBs4BK-GPS
	Y1, Y3, Y4, Y6=4°; Y2, Y5=6°	0°	0°	6U4MT360X12FCCs4BK	6U4MT360X12FCCs4BK-GPS

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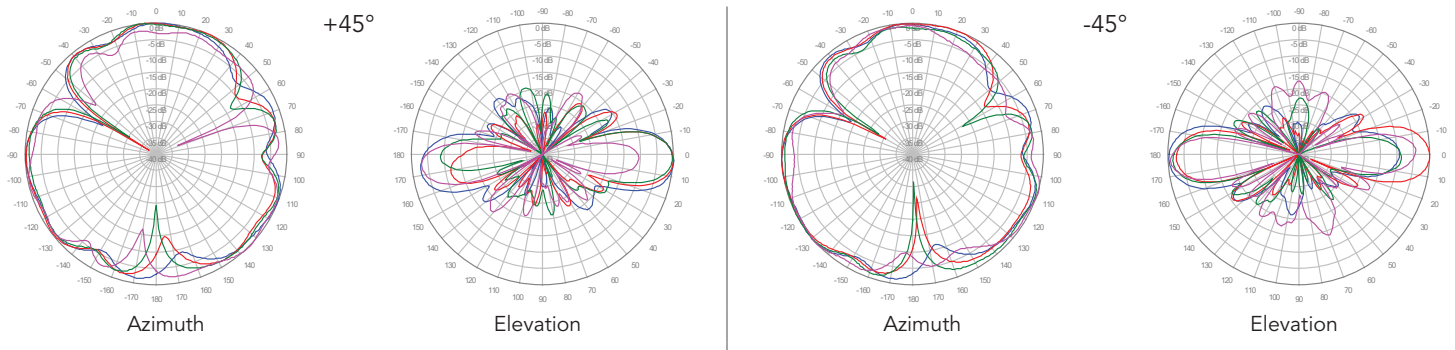
6U4MT360X12F_{xy}s4

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

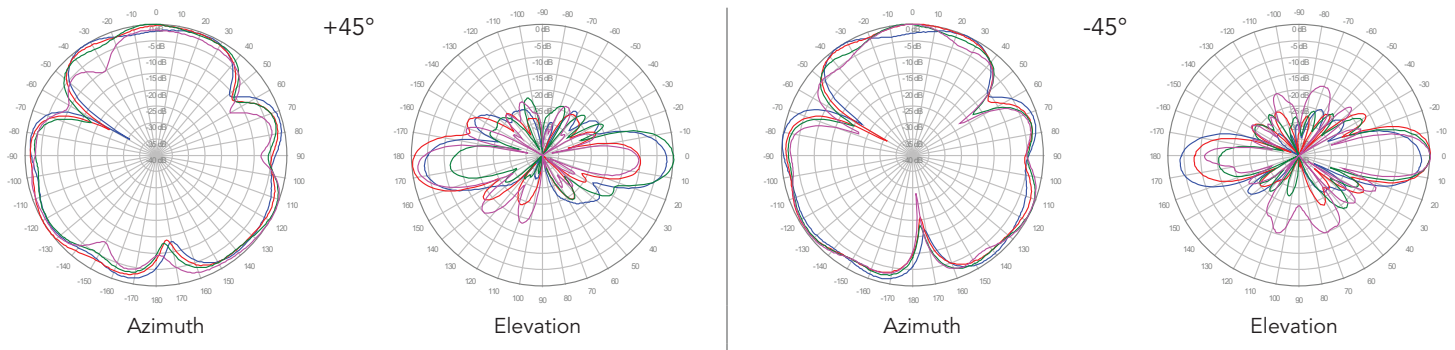
Y1, 2° TILT



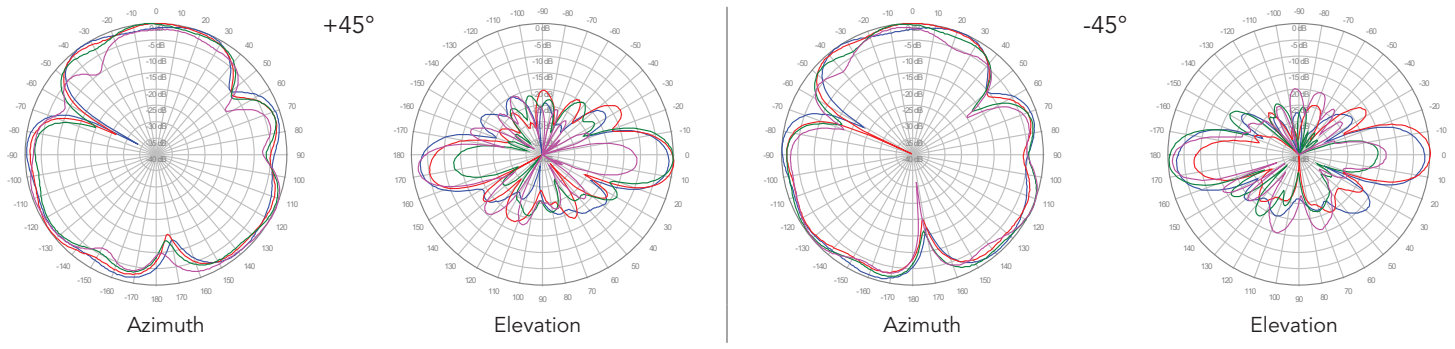
Y2, 2° TILT



Y3, 2° TILT



Y4, 2° TILT

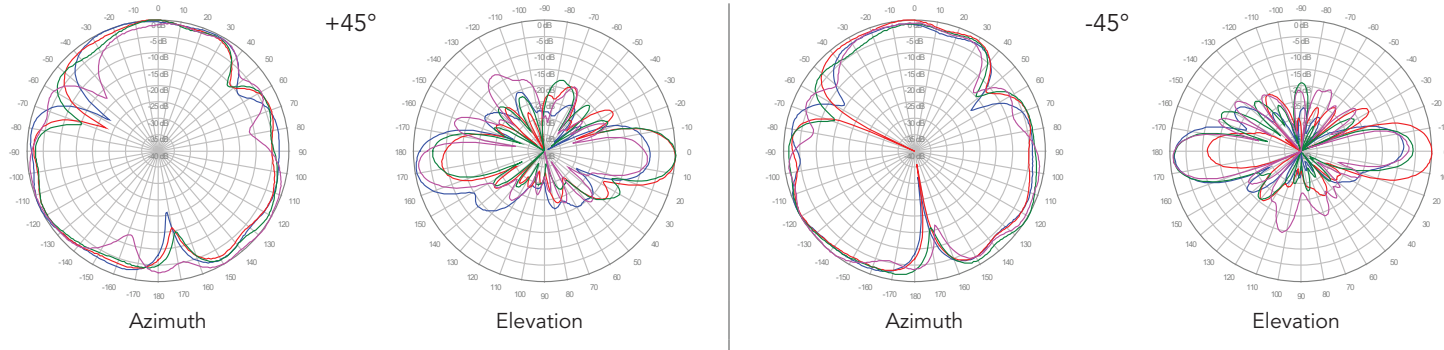


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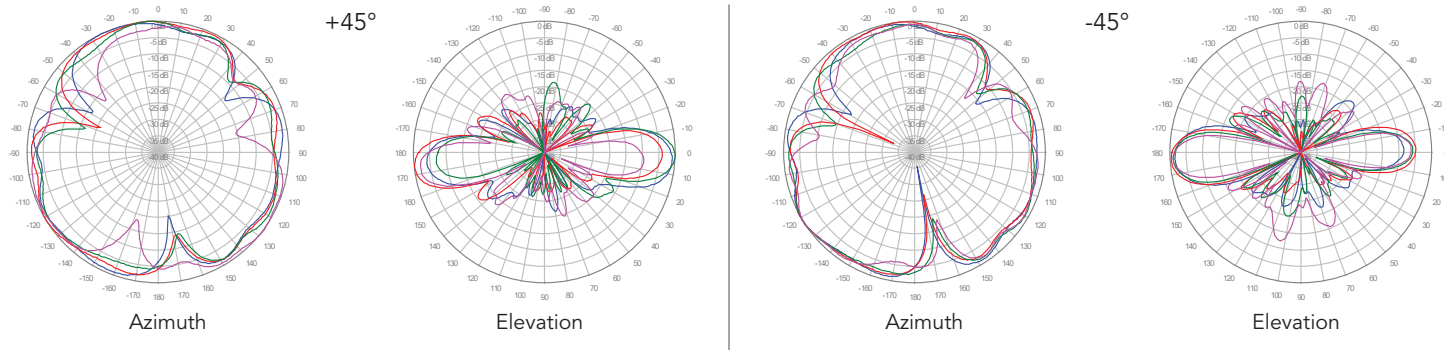
6U4MT360X12F_{xy}s4

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

Y5, 2° TILT



Y6, 2° TILT

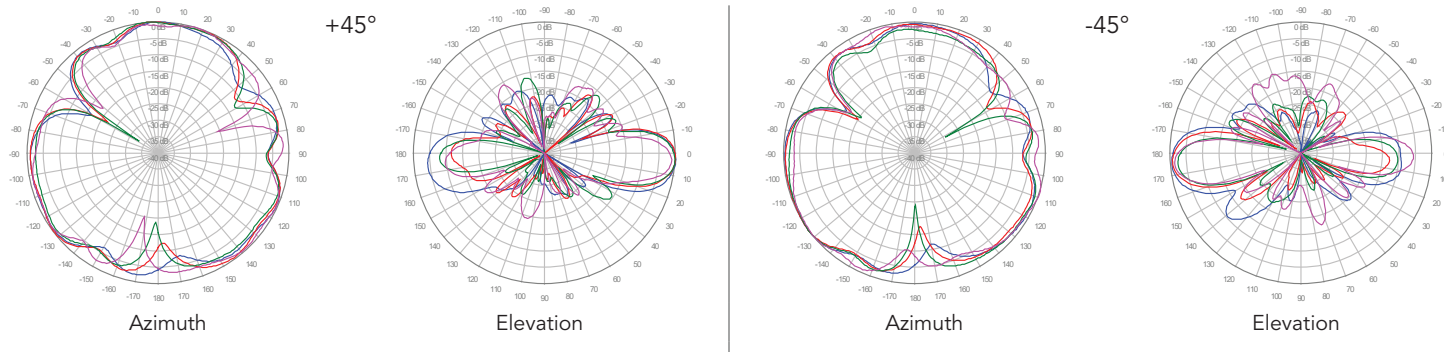


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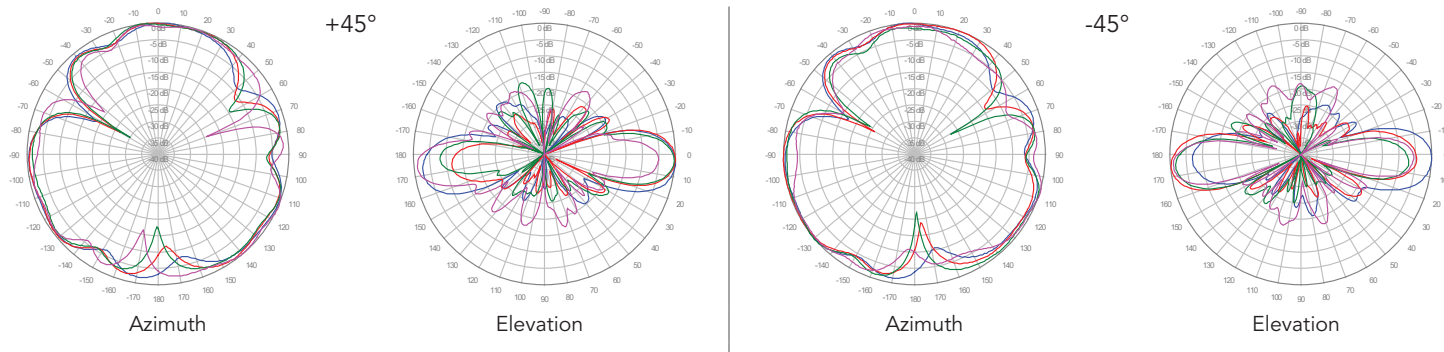
6U4MT360X12F_{xy}s4

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

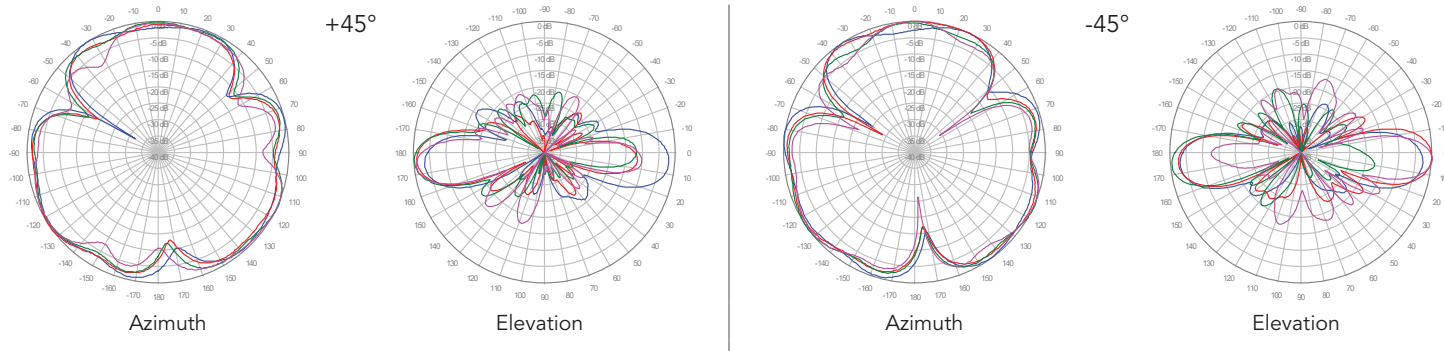
Y1, 4° TILT



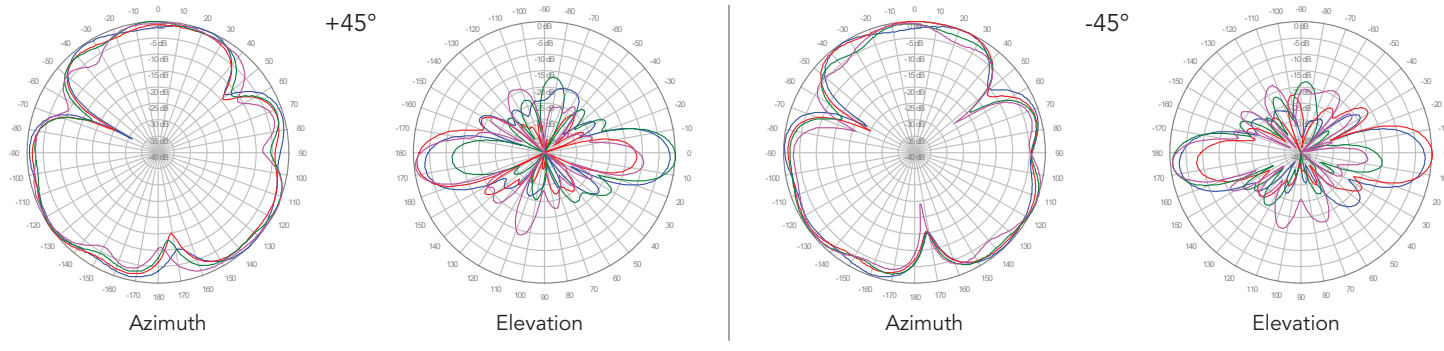
Y2, 4° TILT



Y3, 4° TILT



Y4, 4° TILT

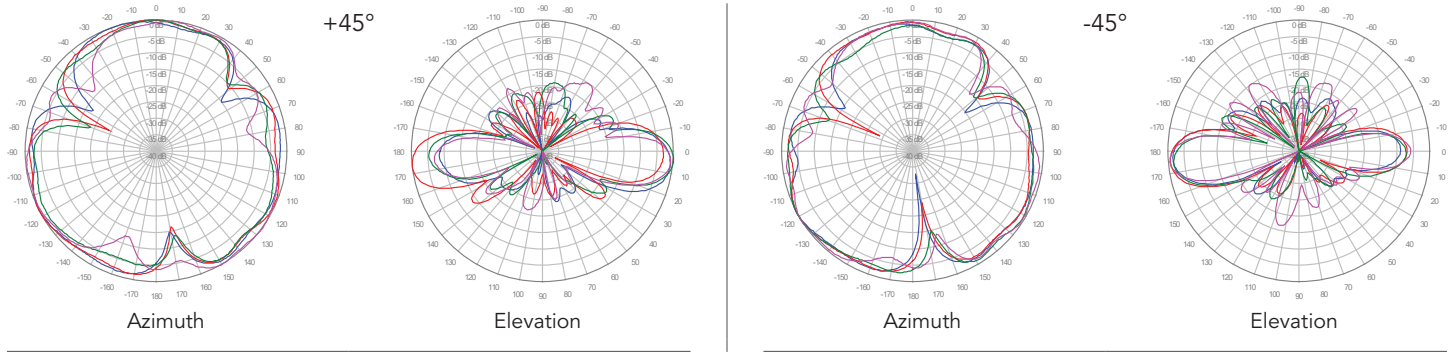


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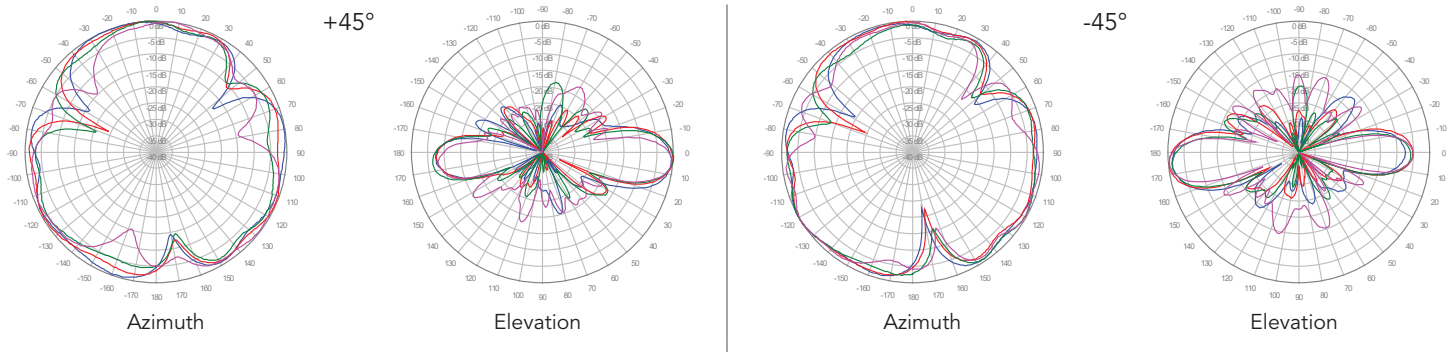
6U4MT360X12F_{xy}s4

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

Y5, 4° TILT



Y6, 4° TILT

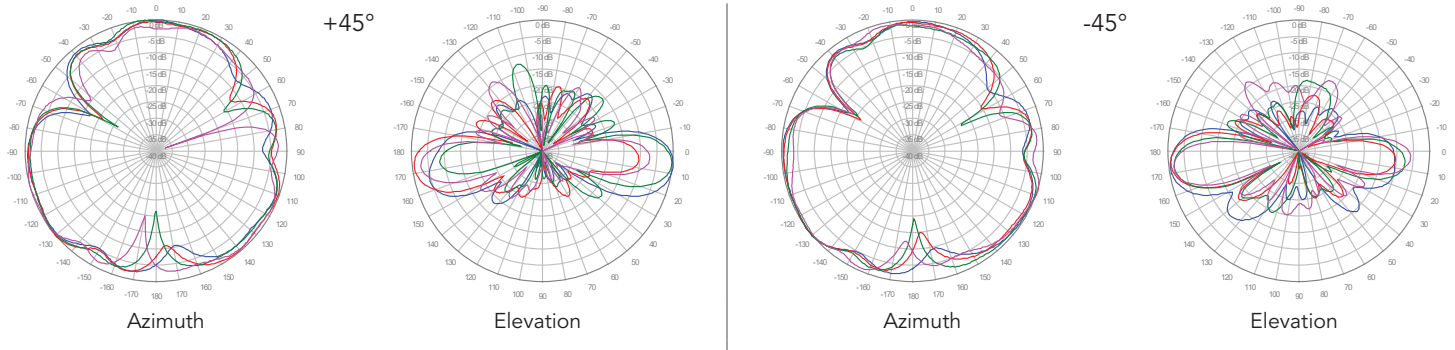


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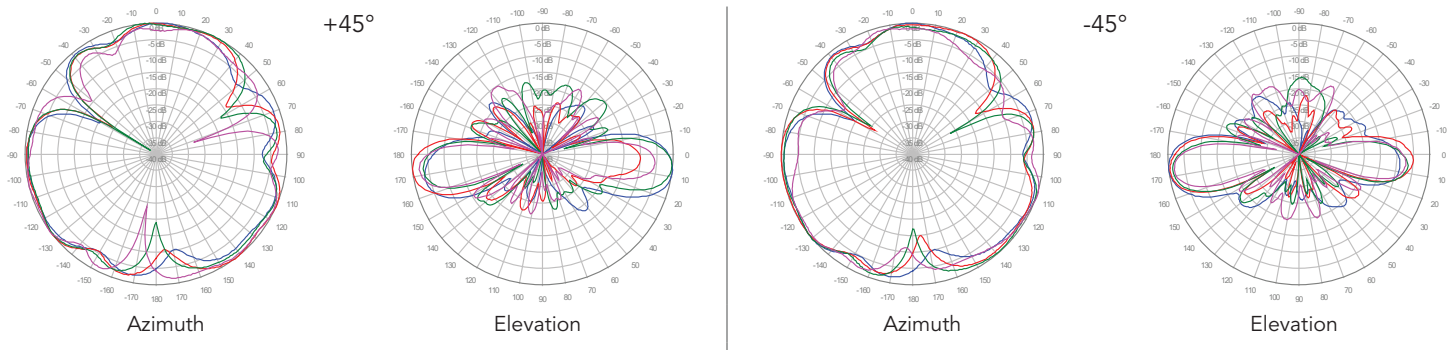
6U4MT360X12F_{xy}s4

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

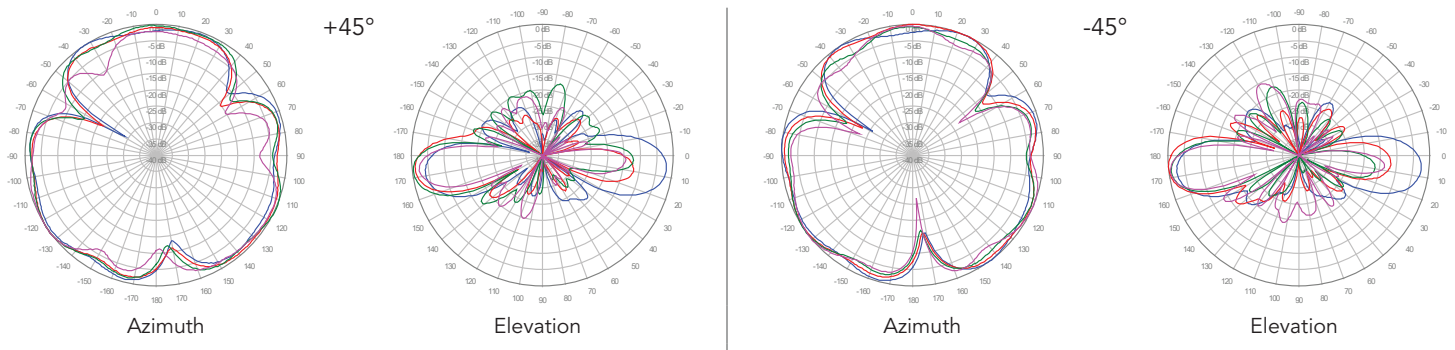
Y1, 6° TILT



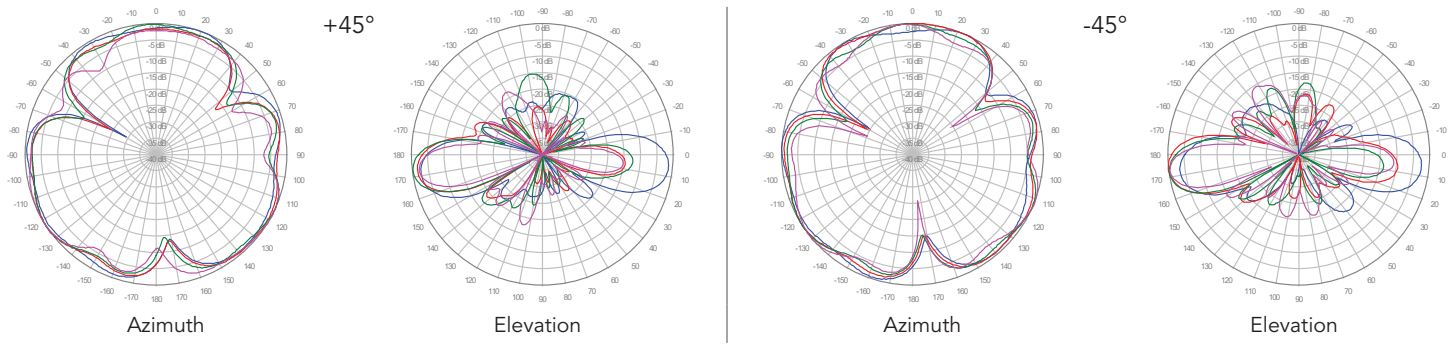
Y2, 6° TILT



Y3, 6° TILT



Y4, 6° TILT



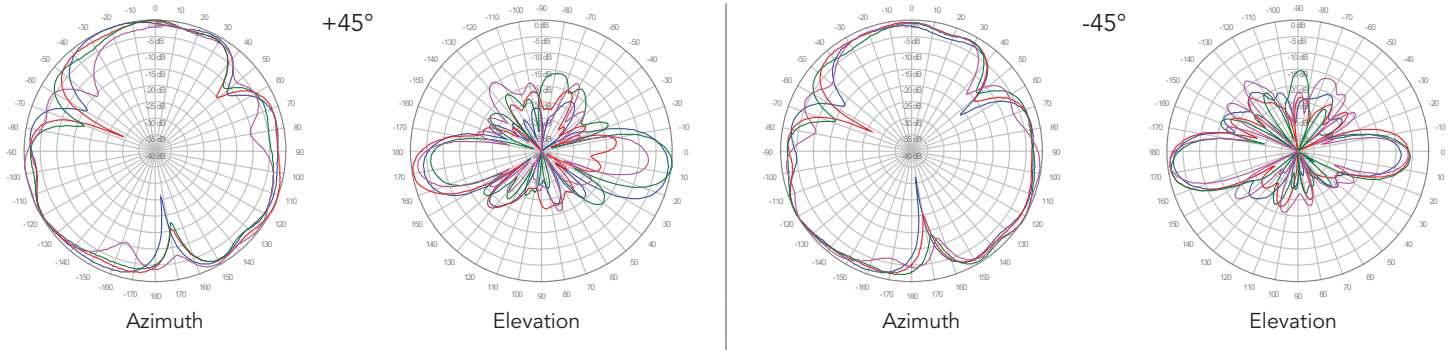
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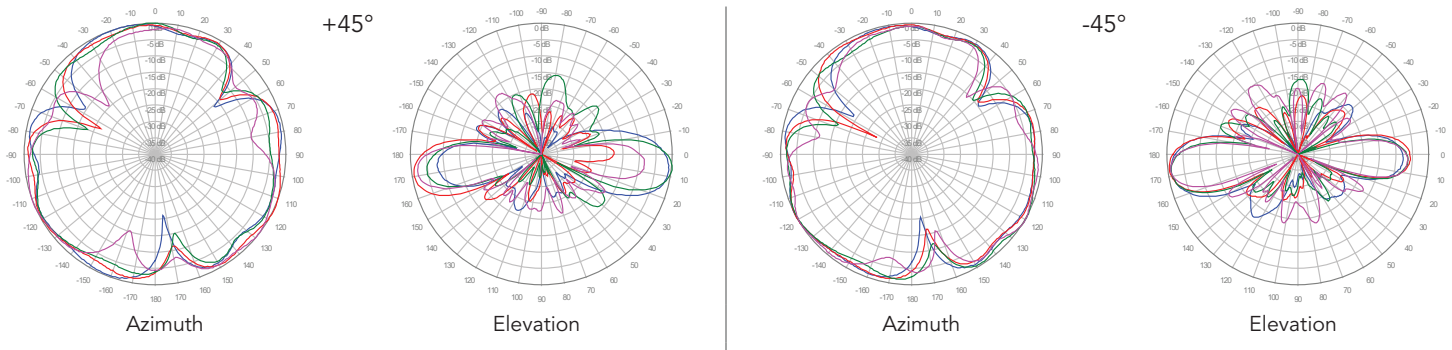
6U4MT360X12F_{xy}s4

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

Y5, 6° TILT



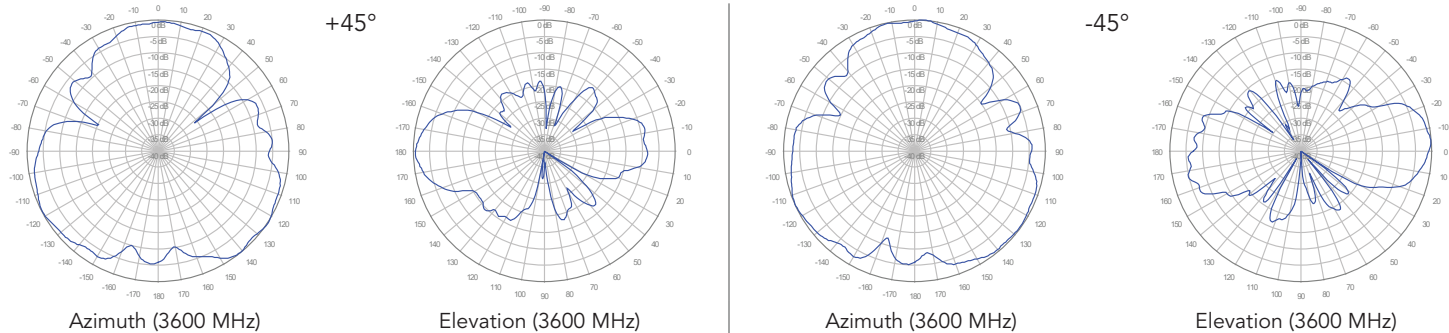
Y6, 6° TILT



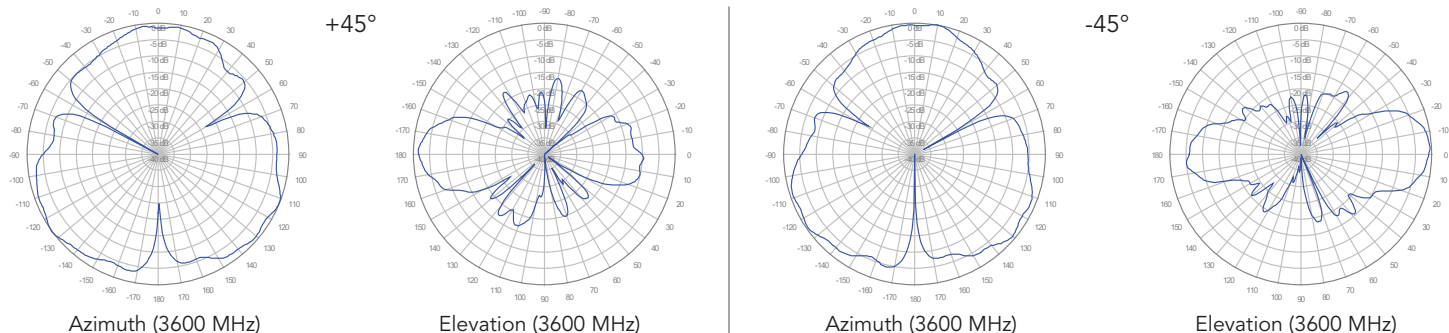
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6U4MT360X12F_{xy}s4

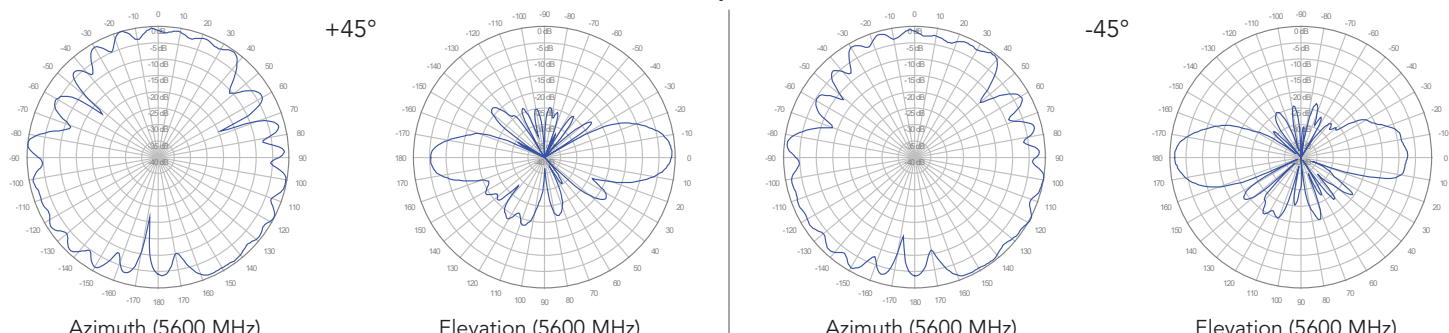
P1, 0° TILT



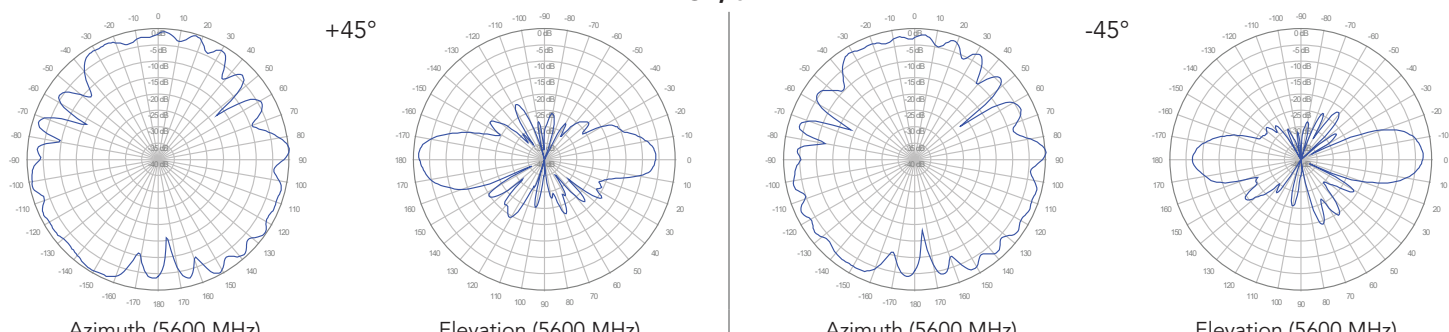
P2, 0° TILT



O1, 0° TILT



O2, 0° TILT



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