(6x) 1695-2700 | (2x) 3550-3700 | (2x) 5150-5925 MHz

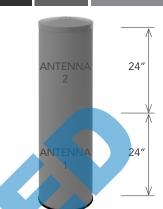
SECTOR / OMNI COMBINATION

48 IN FIXED TILT

6U4MTSP1X12Fxys0

Features

- Sector and omni configuration with 28 connectors
- Dual antennas integrated under a single radome
- Ideal for multi-carrier or 4x4 MIMO deployments
- 4x4 MIMO capable on both the sectorized and pseudo omni mid bands
- 5 GHz U-NII FCC compliant
- Available for order with a grey, brown or black radome



	Eroguana, Panga (MUz)	MID								LAA	
>	Frequency Range (MHz)				(2x) 355	50-3700	(2x) 5150)-5925			
	Array	■ Y1 ■ Y2 ■ Y3	Y4 Y5	<u> </u>	Y7	■ Y8 ■ Y9	¥10	■ P1	■ P2	O 1	O 2
FRVIEW	Connector	12 P	ORTS			8 PORTS		4 PC	DRTS	4 POF	RTS
	Polarization	XF	POL			XPOL		XPOL		XPC	DL
Ó	Azimuth Beamwidth (avg)	SECT	ORIZED			OMNI		OMNI		OMI	NI
CT	Electrical Downtilt			C)°	0°					
PROD	Configuration	SECTOR & OMNI COMBINATION									
4	Connector Type	(28x) 4.3-10 FEMALE CONNECTORS									
	Dimensions	1223 x Ø371 mm (48.2 x Ø14.6 in)									
	Radome Color Options										

ELECTRICAL S	PECIFICATIONS N	Mid Band	■ Y1 ■ Y2 ■	Y3 Y4 Y5	■ Y6 ■ Y7 ■ Y	8 Y9 Y10				
Frequency Range		MHz	(6x) 1695-2700							
Frequency Sub-Ra	ange	MHz	1695-1880	1850-1990	1920-2200	2300-2700				
Polarization			(6x) ±45°							
Caia	Pseudo Omni	dBi	8.3 ± 0.8 dBi	9.0 ± 0.5 dBi	9.1 ± 0.5 dBi	9.0 ± 0.9 dBi				
Gain	Sector	dBi	12.9 ± 0.6 dBi	13.4 ± 0.3 dBi	13.6 ± 0.4 dBi	14.1 ± 0.7 dBi				
Azimuth	Pseudo Omni	degrees	360°	360°	360°	360°				
Beamwidth (3 dB)	Sector	degrees	84.0° ± 8.2°	79.2° ± 5.5°	75.6° ± 6.4°	66.7° ± 6.5°				
Elevation Beamwidth (3 dB)		degrees	23.1° ± 1.7°	21.6° ± 0.9°	20.4° ± 1.9°	16.9° ± 1.2°				
Electrical Downtil	t	degrees	(x) 2°, 4°, 6°							
Impedance		Ohms	50Ω							
VSWR	7		≤ 1.5:1							
	Passive Intermodulation 3rd Order for 2x20 W Carriers		< -153							
Upper Sidelobe Suppression		dB	> 14	> 14	> 14	> 14				
la a la ti a a	Intraband	dB		> 25						
Isolation	Interband	dB		>	28					
Input Power		Watts	300W							



(6x) 1695-2700 | (2x) 3550-3700 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION

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ELECTRICAL SPECIFICATIONS CBRS Band			■ P1 ■ P2
Frequency Range		MHz	(2x) 3550-3700
Polarization			(2x) ±45°
	BASTA	dBi	5.5 ± 0.6
Gain	MAX	dBi	6.1
Azimuth Bea	ımwidth (3 dB)	degrees	360°
Elevation Be	Elevation Beamwidth (3 dB)		32.6 ± 4.1°
Electrical Do	Electrical Downtilt		(y) 0°
Impedance		Ohms	50Ω
VSWR			≤ 1.5:1
Passive Inter 3rd Order fo	modulation r 2x20 W Carriers	dBc	N/A
Upper Sidel	obe Suppression	dB	N/A
	Intraband	dB	> 25
Isolation	Interband	dB	> 28
Input Power		Watts	100W

ELECTRIC	CAL SPECIFICATIONS	LAA Band	■ O1 ■ O2					
Frequency	Range	MHz	(2x) 5150-5925					
Polarization	า		(2x) ±45°					
6 :	BASTA	dBi	5.1 ± 0.7					
Gain	MAX	dBi	5.8					
Azimuth Be	eamwidth (3 dB)	degrees	360°					
Elevation B	Beamwidth (3 dB)	degrees	22.0° ± 1.6°					
Electrical D	Electrical Downtilt		(y) 0°					
Impedance	Impedance		50Ω					
VSWR			≤ 1.5:1					
	Passive Intermodulation 3rd Order for 2x20 W Carriers		N/A					
Upper Side	elobe Suppression	dB	> 20					
1 1 2	Intraband		> 25					
Isolation	Interband	dB	> 28					
Input Power Watts		Watts	50W					
U-NII Compliant			Yes					



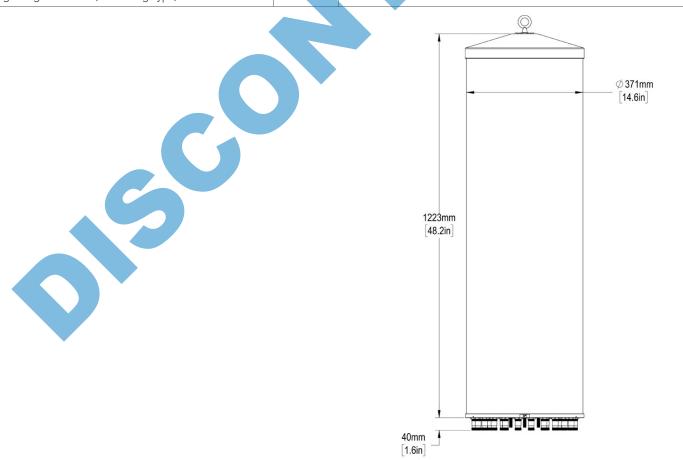
SECTOR / OMNI COMBINATION

48 IN FIXED TILT

6U4MTSP1X12Fxys0

MECHANICAL SPECIFICATIONS

nna	Height Diameter		mm (in)	1223 (48.2)					
Antenna			mm (in)	371 (14.6)					
Net W	Net Weight - Antenna Only			20 (44)					
\A/'II	Calculation			160 (100)					
Windl	oad	Frontal	N (lbf)	391 (88)					
Surviv	al Wind Speed		km/h (mph)	241 (150)					
Wind	Wind Area			0.47 (5.0)					
\		Total	m³ (ft³)	0.13 (4.7)					
Volum	ie	Each Antenna	m³ (ft³)	0.065 (2.33)					
		Туре		4.3-10 Female					
Conne	ctor	Quantity		28					
		Position		Bottom					
Radome Color			Grey (Pantone 420 C) Brown (Pantone 476 C) Black (RAL 9011)						
Lightr	ning Protection (Groun	ding Type)		Direct Ground					

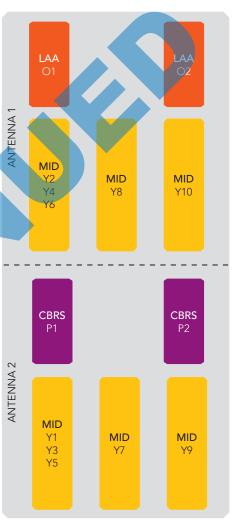


SECTOR / OMNI COMBINATION 48 IN FIXED TILT

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ARRAY LAYOUT Topology

FREQUENCY		ARRAY	CONNECTOR	CONNECTOR TYPE
	1695-2700	■ Y1	1-2	(2x) 4.3-10 Female
	1695-2700	■ Y2	3-4	(2x) 4.3-10 Female
	1695-2700	■ Y3	5-6	(2x) 4.3-10 Female
	1695-2700	■ Y4	7-8	(2x) 4.3-10 Female
MID BAND	1695-2700	■ Y5	9-10	(2x) 4.3-10 Female
MID BAND	1695-2700	■ Y6	11-12	(2x) 4.3-10 Female
	1695-2700	■ Y7	13-14	(2x) 4.3-10 Female
	1695-2700	■ Y8	15-16	(2x) 4.3-10 Female
	1695-2700	■ Y9	17-18	(2x) 4.3-10 Female
	1695-2700	■ Y10	19-20	(2x) 4.3-10 Female
CBRS BAND	3550-3700	■ P1	21-22	(2x) 4.3-10 Female
CDI/3 DAIND	3550-3700	■ -P2	23-24	(2x) 4.3-10 Female
LAA BAND	5150-5925	O 1	25-26	(2x) 4.3-10 Female
LAA DAIND	5150-5925	02	27-28	(2x) 4.3-10 Female



The illustration is not shown to scale.

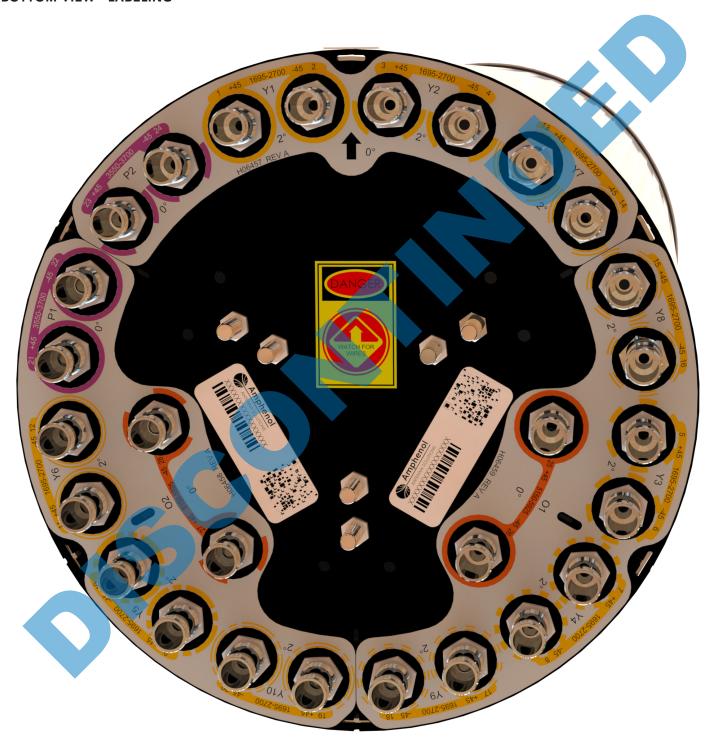




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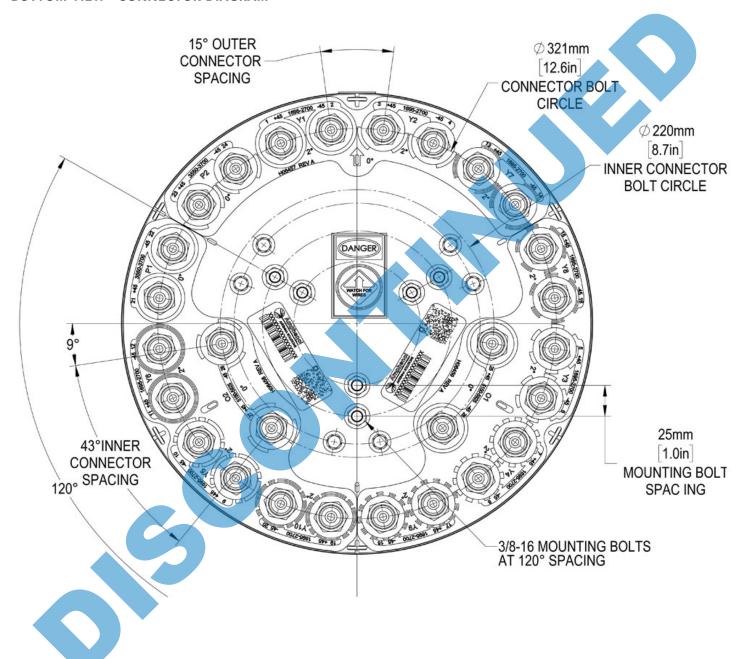
BOTTOM VIEW - LABELING



SECTOR / OMNI COMBINATION 48 IN FIXED TILT

6U4MTSP1X12Fxys0

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.

(6x) 1695-2700 | (2x) 3550-3700 | (2x) 5150-5925 MHz

SECTOR / OMNI COMBINATION 48 IN FIXED TILT

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MOUNTING KITS. Select from the following mounting options when ordering. Mounting lits for canister antennas are ordered as a separate line its

MOUNTING KITS S	elect from the following mounting o	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.

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SECTOR / OMNI COMBINATION

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6U4MTSP1X12Fxys0

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

	ER OF BA		PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA- TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
6U	4	M	Т	SP1	X	12	F	xy	s	0	BK BR
(6x) 1695- 2700	(2x) 3550- 3700	(2x) 5150- 5925	Tri-Sector	Sector and Omni Combination	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	Original variation	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

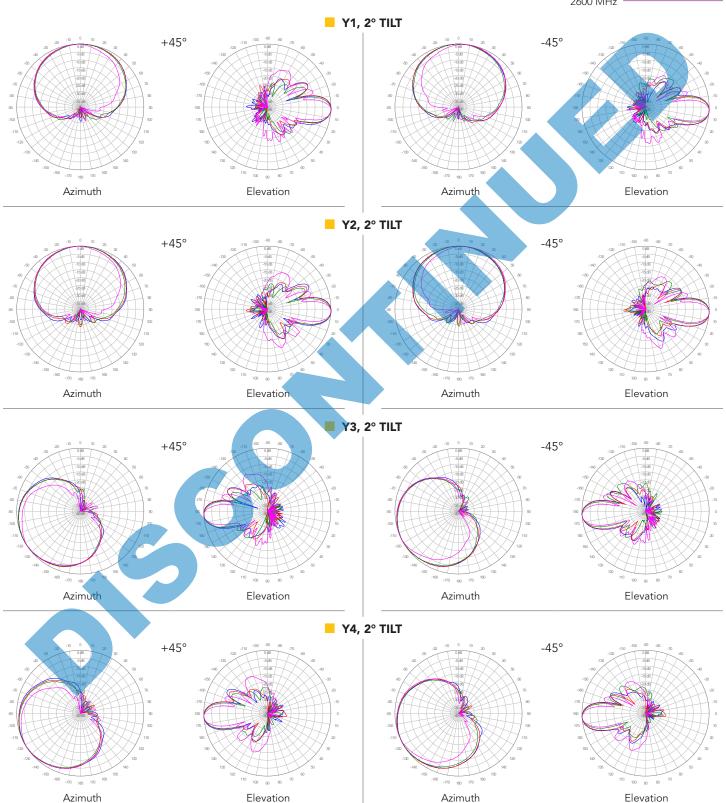
SELECT	SELECT DEGREE O	F ELECTRICAL DOWNTII	ORDER		
RADOME COLOR	MID BAND	CBRS BAND	LAA BAND	MODEL NUMBER	
	2°	O°	O°	6U4MTSP1X12F 20 s0	
Grey	4°	0°	0°	6U4MTSP1X12F40s0	
Pantone 420 C	6°	O°	O°	6U4MTSP1X12F60s0	
	Y1-Y6=6°; Y7-Y10=2°	O°	O°	6U4MTSP1X12FAAs0	
	2°	0°	0°	6U4MTSP1X12F20s0BR	
Brown	4°	0°	0°	6U4MTSP1X12F40s0BR	
Pantone 476 C	6°	0°	0°	6U4MTSP1X12F60s0BR	
	Y1-Y6=6°; Y7-Y10=2°	0°	0°	6U4MTSP1X12FAAs0BR	
	2°	0°	0°	6U4MTSP1X12F20s0BK	
Black	4°	0°	0°	6U4MTSP1X12F40s0BK	
RAL 9011	6°	O°	O°	6U4MTSP1X12F60s0BK	
	Y1-Y6=6°; Y7-Y10=2°	0°	0°	6U4MTSP1X12FAAs0BK	

(6x) 1695-2700 | (2x) 3550-3700 | (2x) 5150-5925 MHz

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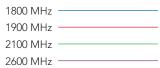


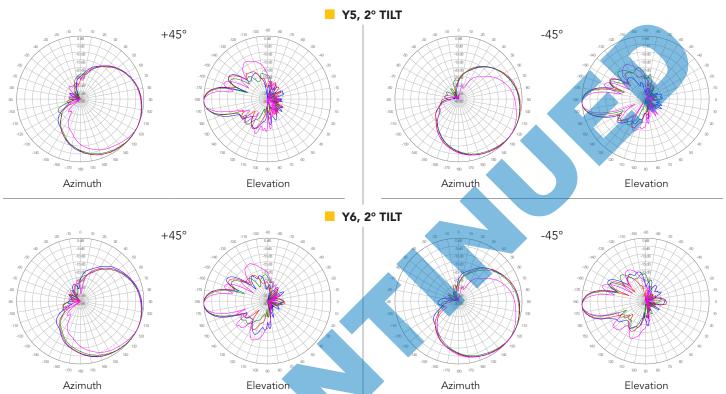


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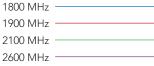


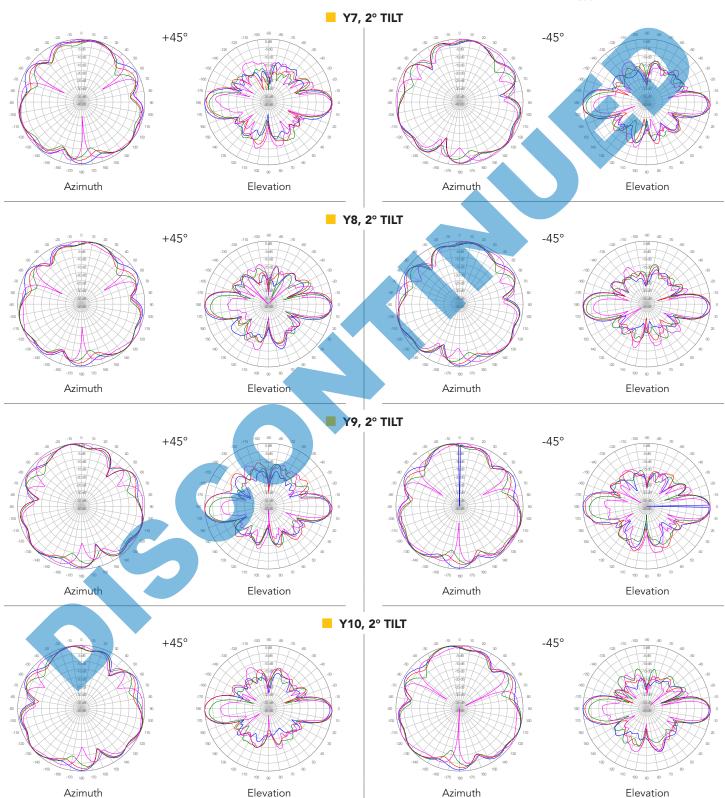


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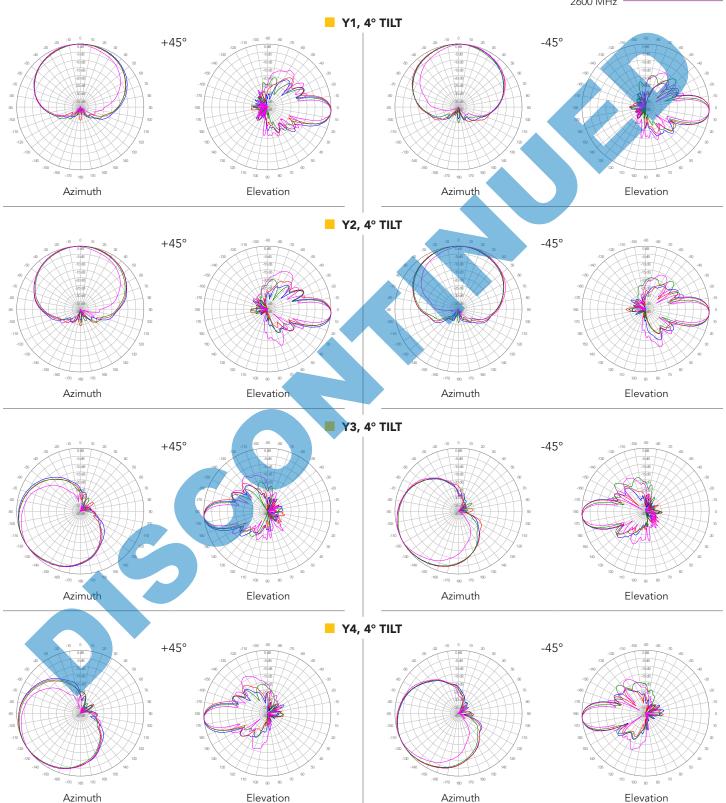


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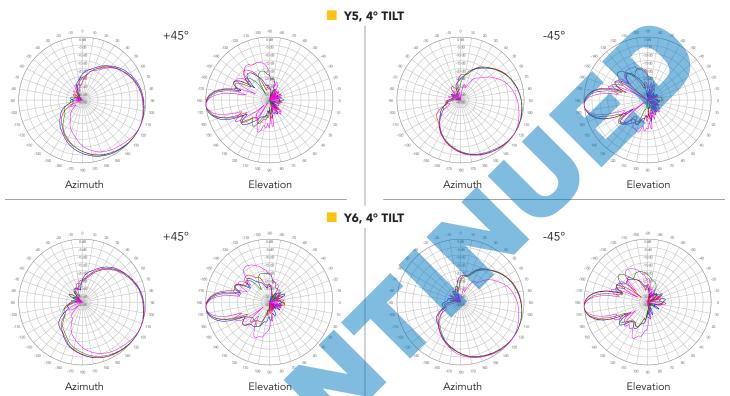


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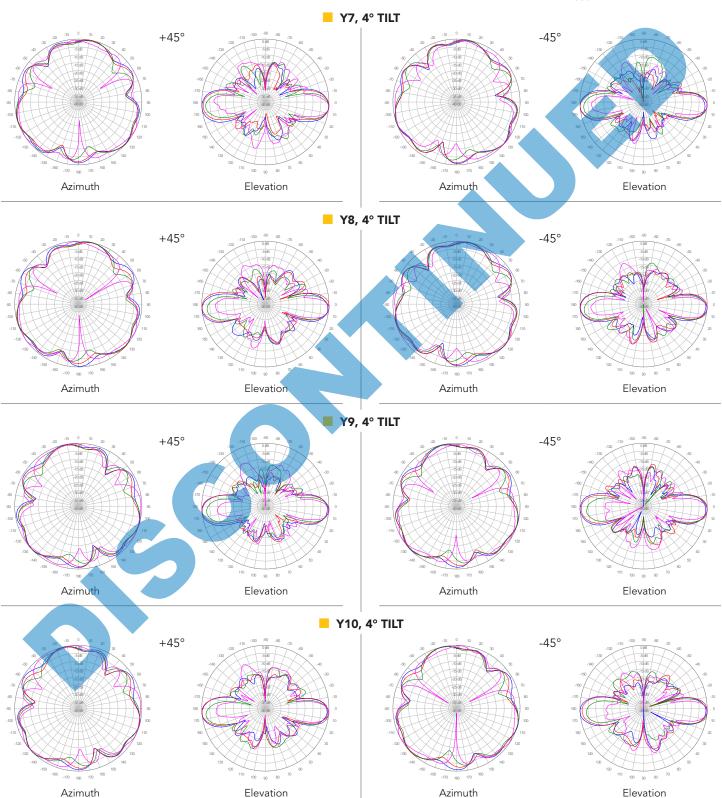


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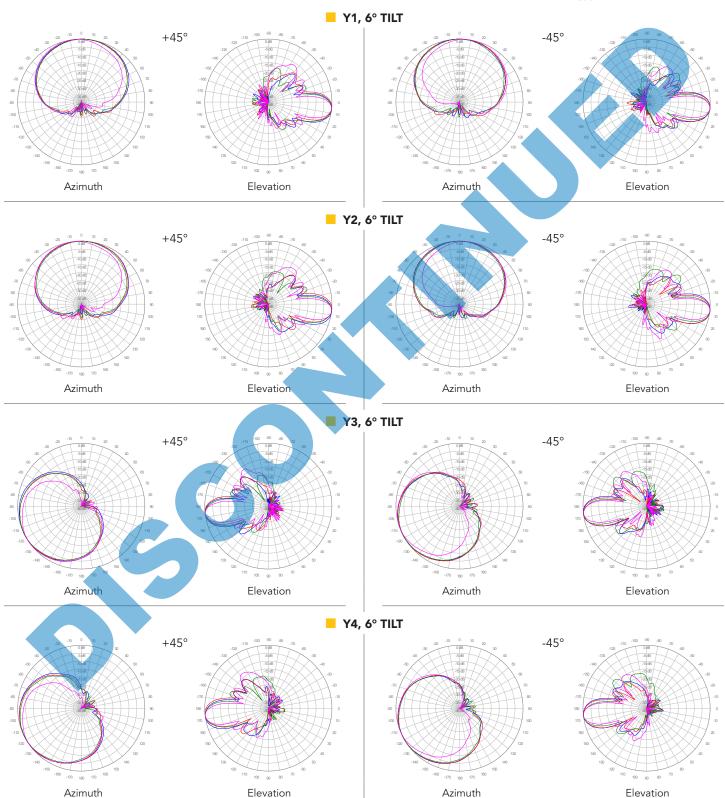


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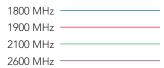


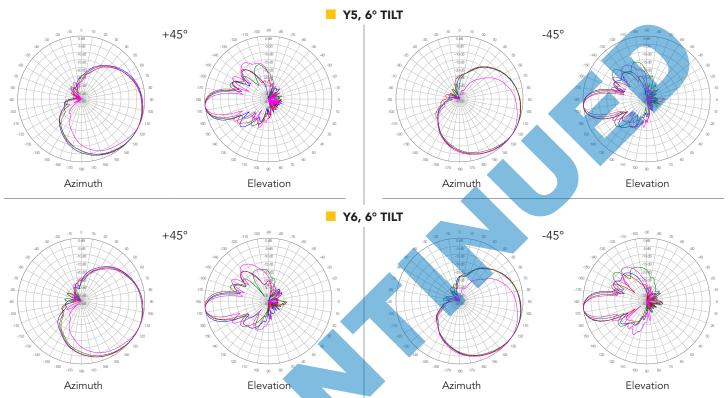


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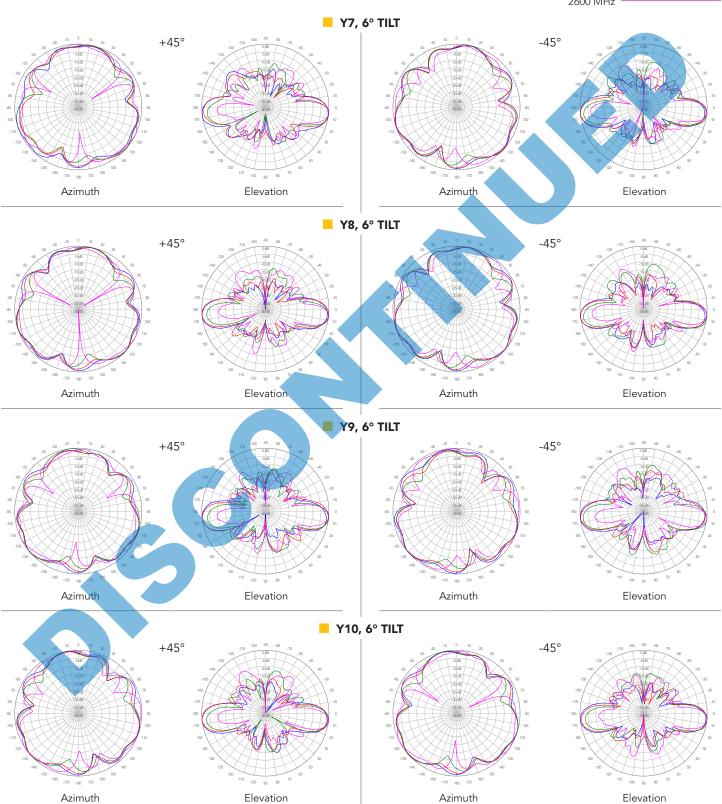


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