

4U6VT360X06F_{xy}s5

Features

- Pseudo omni configuration with 20 connectors
- 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
- Available for order with a grey, brown or black radome



PRODUCT OVERVIEW	Frequency Range (MHz)	(4x) 1695-2700	(6x) 3300-4200
	Array	■ Y1, ■ Y2, ■ Y3, ■ Y4	■ P1, ■ P2, ■ P3, ■ P4, ■ P5, ■ P6
	Connector	8 PORTS	12 PORTS
	Polarization	XPOL	XPOL
	Azimuth Beamwidth (avg)	360°	360°
	Electrical Downtilt	2°, 4°, 6°	2°, 4°, 6°
	Configuration	OMNI CONFIGURATION	
	Maximum Continuous Power Per Port @ 50° C (122° F)	300 WATTS	125 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	3900 WATTS	
	Connector Type	(20x) 4.3-10 FEMALE	
	Dimensions	608 x Ø371 mm (23.9 x Ø14.6 in)	
	Radome Color Options	GREY, BROWN or BLACK	

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) ±45°			
Gain	BASTA	dBi	7.5 ± 1.2	8.0 ± 1.2	7.9 ± 1.3	8.3 ± 1.2
	MAX	dBi	8.7	9.2	9.2	9.5
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	30.3° ± 5.8°	26.3° ± 4.7°	23.9° ± 5.2°	21.2° ± 3.6°
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			
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.

4U6VT360X06F_{xy}s5

ELECTRICAL SPECIFICATIONS

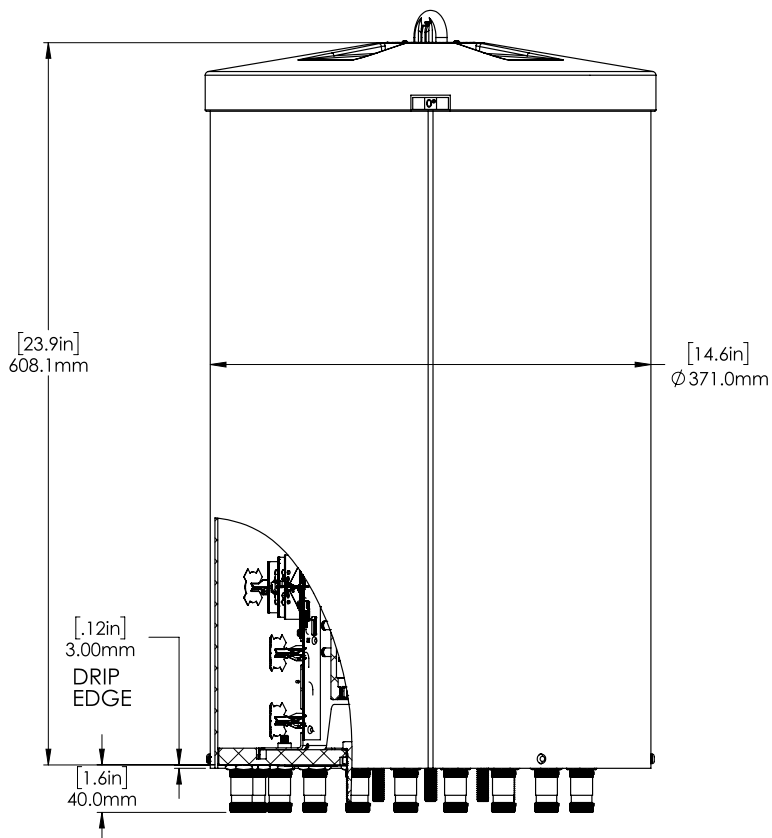
■ P1 ■ P2 ■ P3 ■ P4 ■ P5 ■ P6

Frequency Range		MHz	(6x) 3300-4200		
Frequency Sub-Range		MHz	3300-3550	3550-3700	3700-4200
Polarization		---	(6x) ±45°		
Gain	BASTA	dBi	8.9 ± 1.1	9.2 ± 0.8	10.4 ± 1.1
	MAX	dBi	10.0	10.0	11.5
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	14.9° ± 4.2°	14.4° ± 3.9°	13.5° ± 3.6°
Electrical Downtilt		degrees	(y) 2°, 4°, 6°		
Impedance		Ohms	50Ω		
VSWR		---	1.5:1		
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153		
Upper Sidelobe Suppression		dB	> 15		
Isolation	Intraband	dB	> 25		
	Interband	dB	> 28		

4U6VT360X06F_{xy}s5

MECHANICAL SPECIFICATIONS

Antenna	Height	mm (in)	608 (23.9)
	Diameter	mm (in)	371 (14.6)
Net Weight - Antenna Only		kg (lbs)	12.7 (28)
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 (Pantone 420 C), Brown (Pantone 476 C), Black (RAL 9011)
Lightning Protection (Grounding Type)		---	Direct Ground



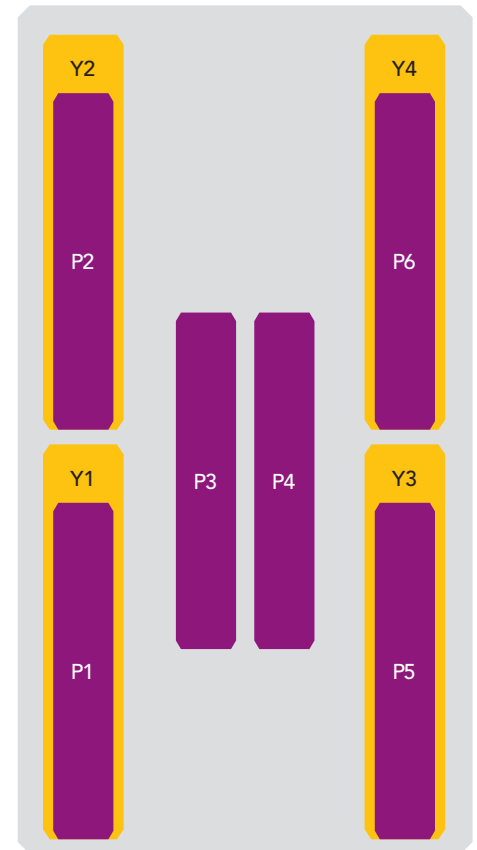
FRONT VIEW
NOTE: SEAM OF RADOME
IS ORIENTED TO 0 Deg

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.

4U6VT360X06F_{xy}s5

ARRAY LAYOUT Topology

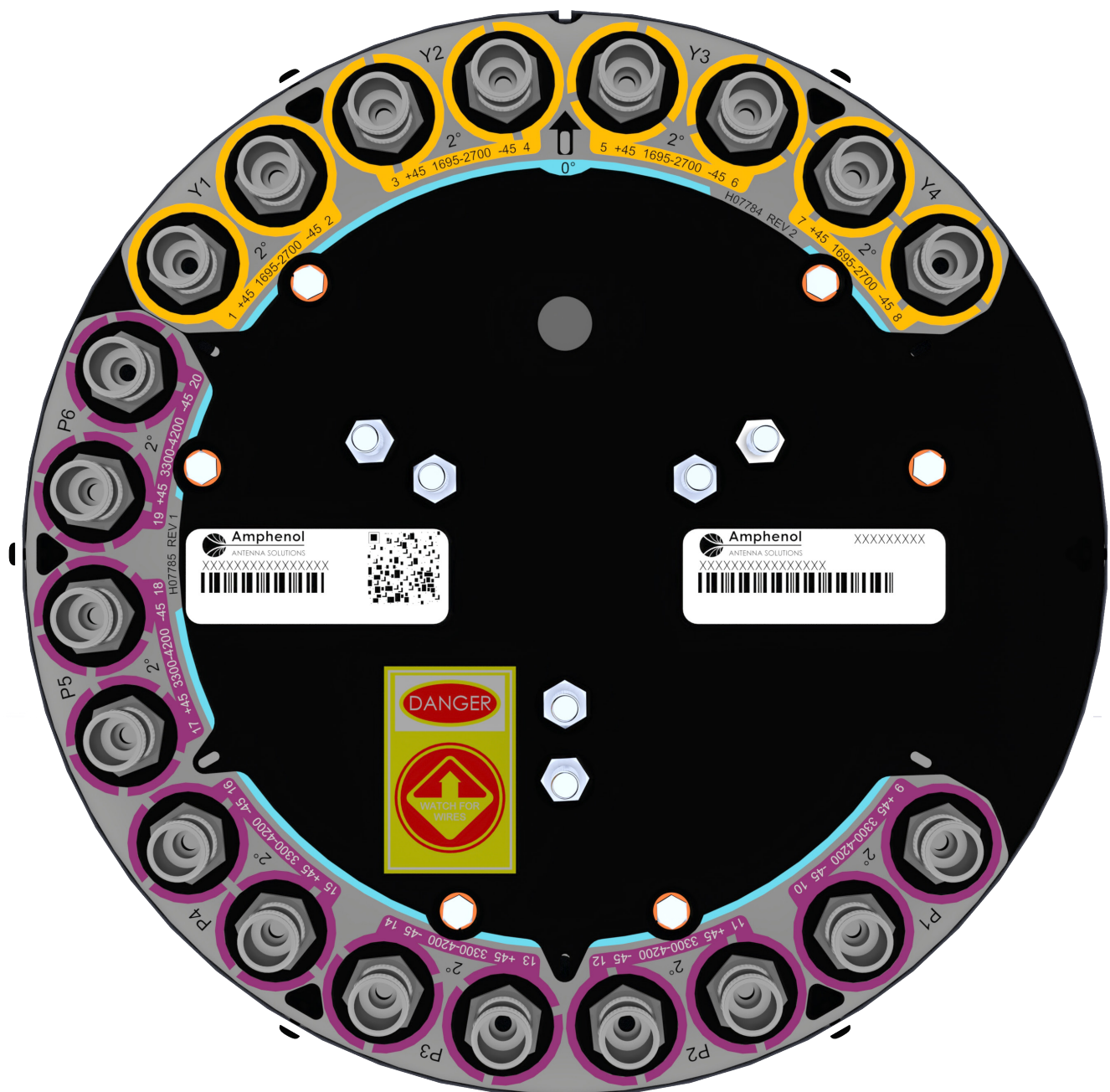
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
1695-2700 MHz	■ Y1	1-2	(2x) 4.3-10 Female
1695-2700 MHz	■ Y2	3-4	(2x) 4.3-10 Female
1695-2700 MHz	■ Y3	5-6	(2x) 4.3-10 Female
1695-2700 MHz	■ Y4	7-8	(2x) 4.3-10 Female
3300-4200 MHz	■ P1	9-10	(2x) 4.3-10 Female
3300-4200 MHz	■ P2	11-12	(2x) 4.3-10 Female
3300-4200 MHz	■ P3	13-14	(2x) 4.3-10 Female
3300-4200 MHz	■ P4	15-16	(2x) 4.3-10 Female
3300-4200 MHz	■ P5	17-18	(2x) 4.3-10 Female
3300-4200 MHz	■ P6	19-20	(2x) 4.3-10 Female



The illustration is not shown to scale.

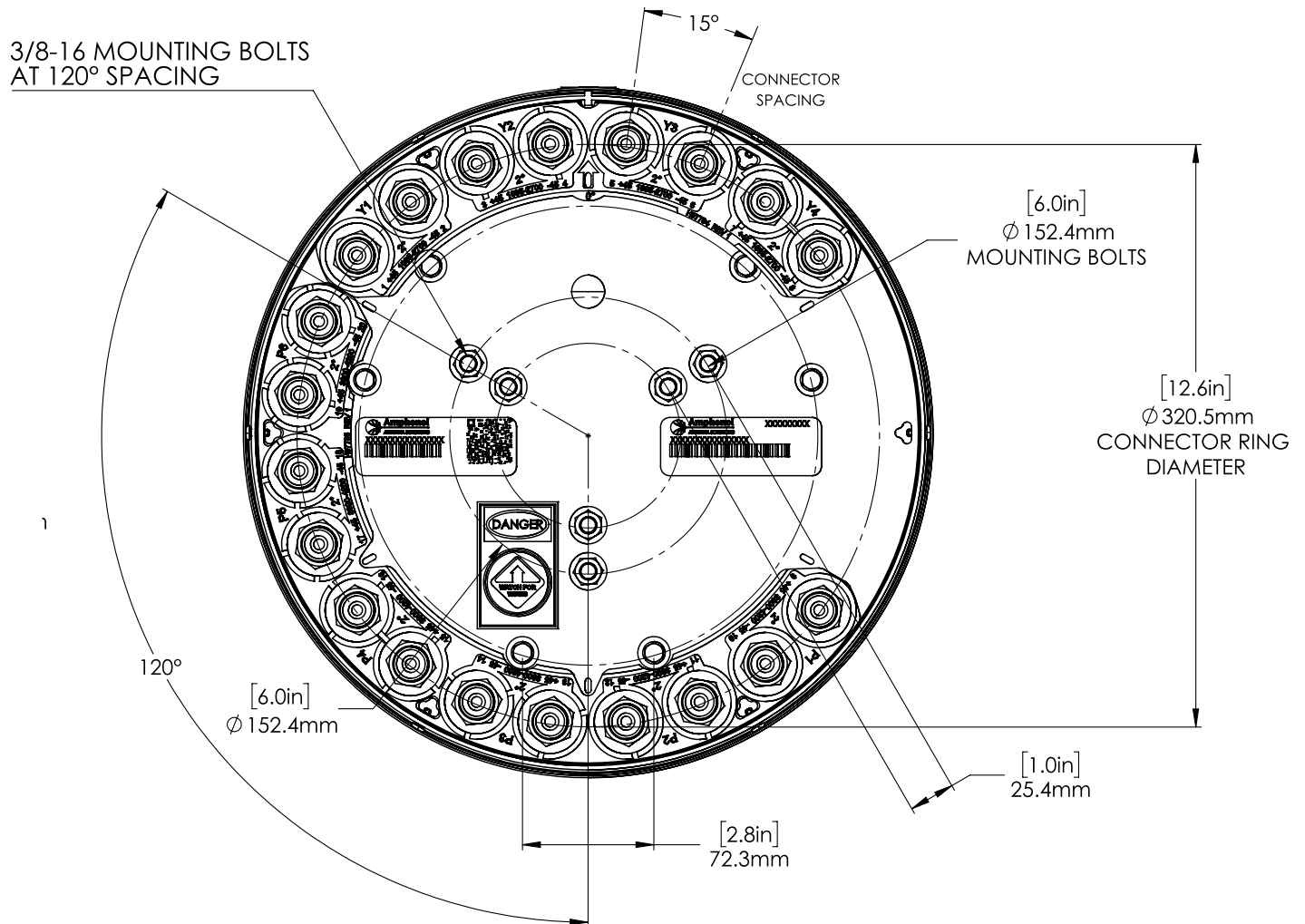
4U6VT360X06F_{xy}s5

BOTTOM VIEW - LABELING



4U6VT360X06F_{xy}s5

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.

4U6VT360X06F_{xy}s5

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.

4U6VT360X06F_{xy}s5

HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

NUMBER OF BANDS & OPERATING FREQUENCY		PATTERN TYPE	AZIMUTH BMWDTH	POLARIZATION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
4U	6V	T	360	X	06	F	xy	s	5	BK BR
(4x) 1695-2700	(6x) 3300-4200	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	5th generation 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

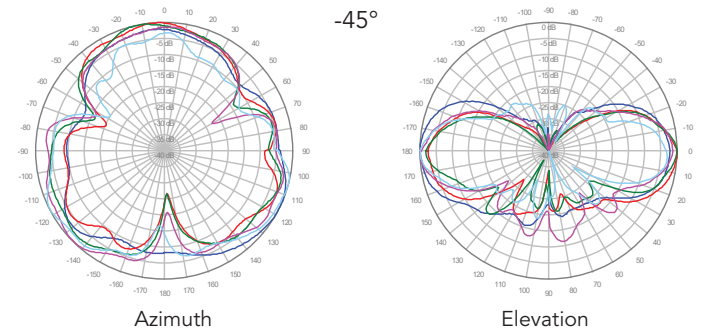
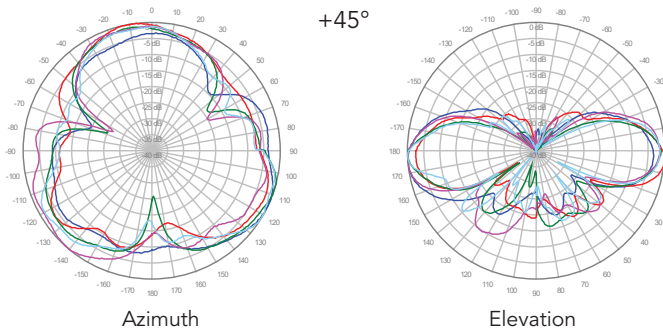
SELECT RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND		ANTENNA MODEL
	1695-2700 MHz	3300-4200 MHz	
Grey Pantone 420 C	2°	2°	4U6VT360X06F22s5
	2°	4°	4U6VT360X06F24s5
	2°	6°	4U6VT360X06F26s5
	4°	2°	4U6VT360X06F42s5
	4°	4°	4U6VT360X06F44s5
	4°	6°	4U6VT360X06F46s5
	6°	2°	4U6VT360X06F62s5
	6°	4°	4U6VT360X06F64s5
	6°	6°	4U6VT360X06F66s5
Brown Pantone 476 C	2°	2°	4U6VT360X06F22s5BR
	2°	4°	4U6VT360X06F24s5BR
	2°	6°	4U6VT360X06F26s5BR
	4°	2°	4U6VT360X06F42s5BR
	4°	4°	4U6VT360X06F44s5BR
	4°	6°	4U6VT360X06F46s5BR
	6°	2°	4U6VT360X06F62s5BR
	6°	4°	4U6VT360X06F64s5BR
	6°	6°	4U6VT360X06F66s5BR
Black RAL 9011	2°	2°	4U6VT360X06F22s5BK
	2°	4°	4U6VT360X06F24s5BK
	2°	6°	4U6VT360X06F26s5BK
	4°	2°	4U6VT360X06F42s5BK
	4°	4°	4U6VT360X06F44s5BK
	4°	6°	4U6VT360X06F46s5BK
	6°	2°	4U6VT360X06F62s5BK
	6°	4°	4U6VT360X06F64s5BK
	6°	6°	4U6VT360X06F66s5BK

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.

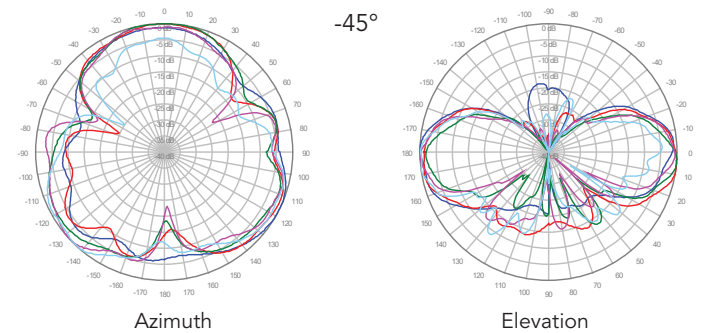
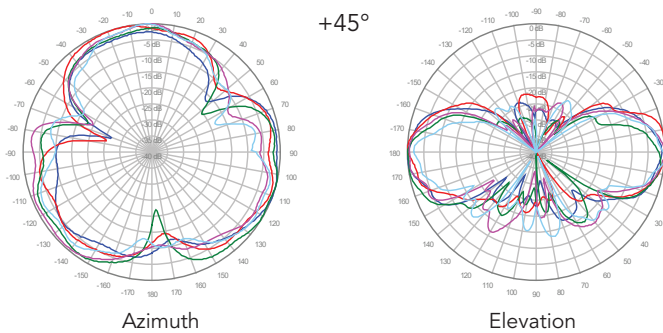
4U6VT360X06F_{xys}5

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

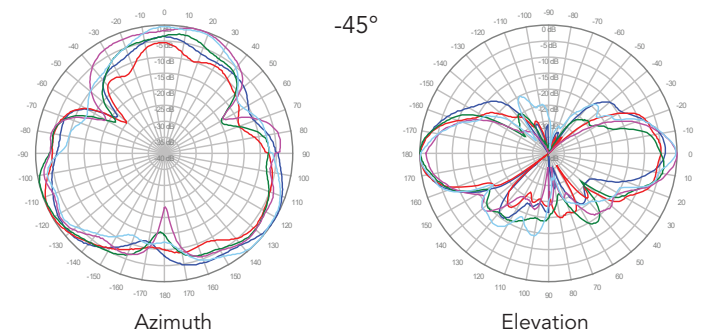
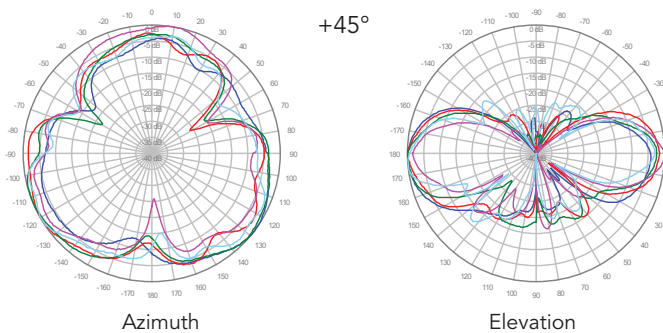
Y1, 2° TILT



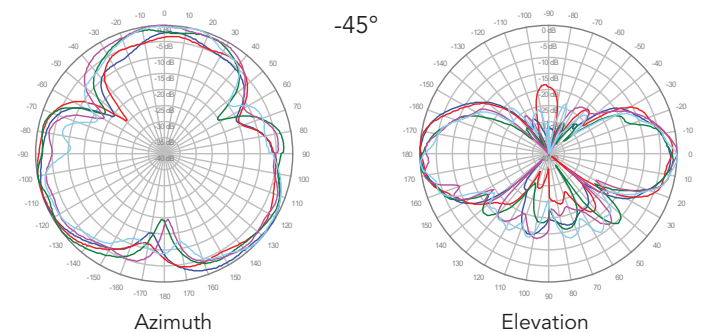
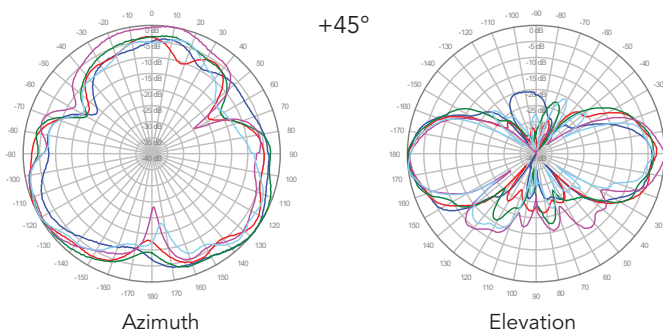
Y2, 2° TILT



Y3, 2° TILT



Y4, 2° TILT

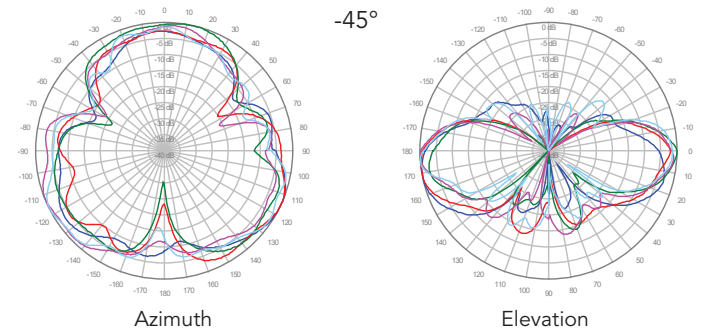
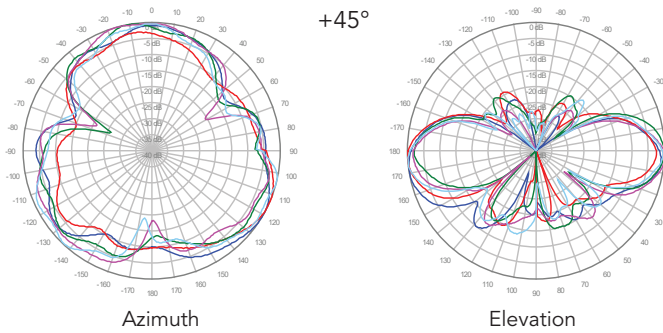


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

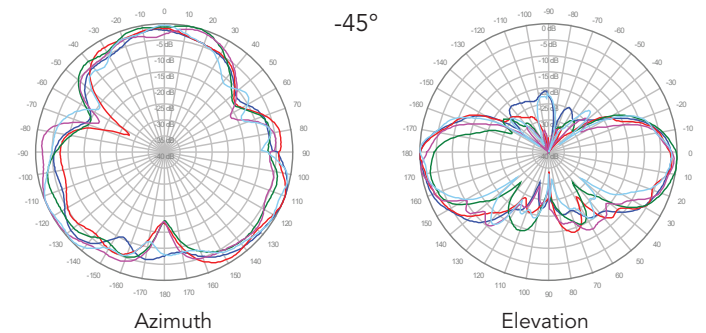
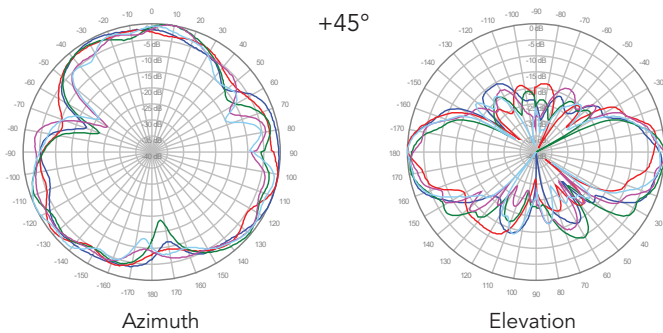
4U6VT360X06F_{xys}5

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

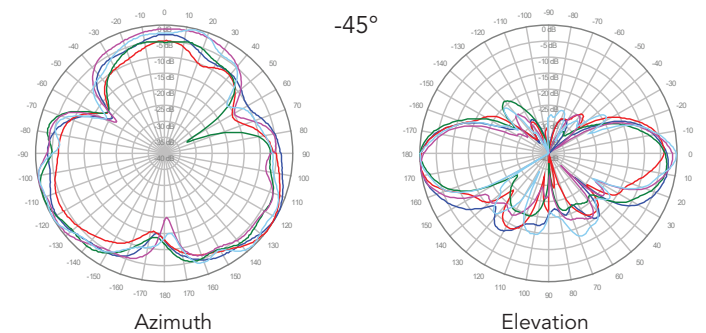
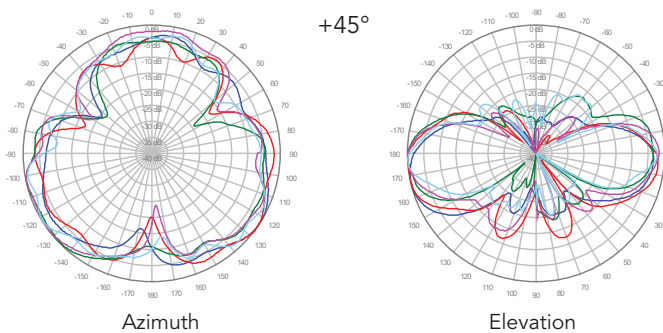
Y1, 4° TILT



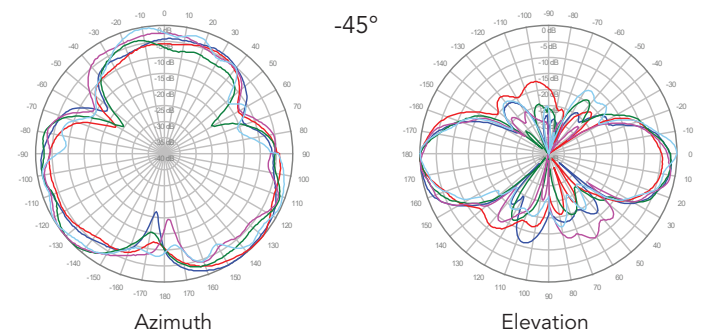
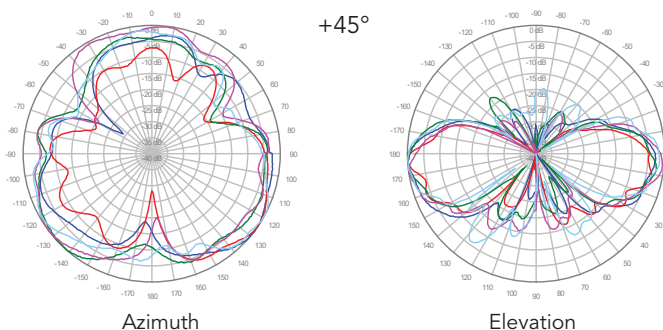
Y2, 4° TILT



Y3, 4° TILT



Y4, 4° TILT

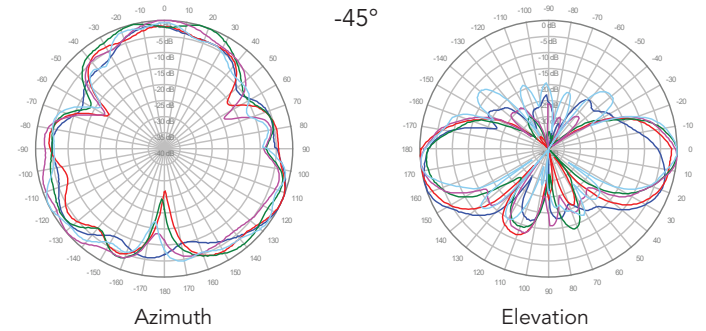
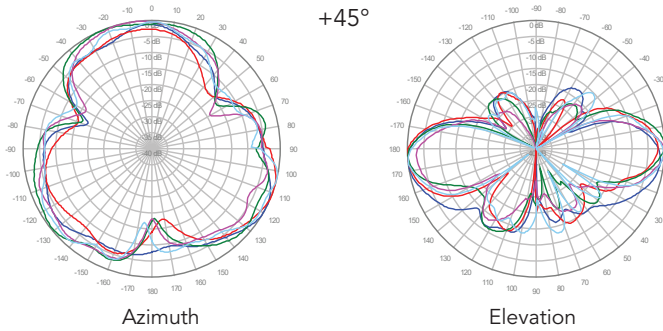


Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

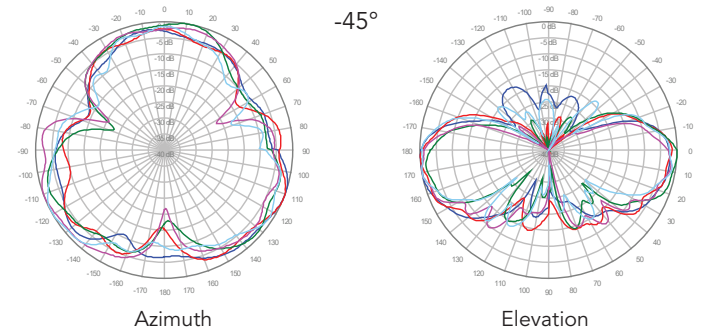
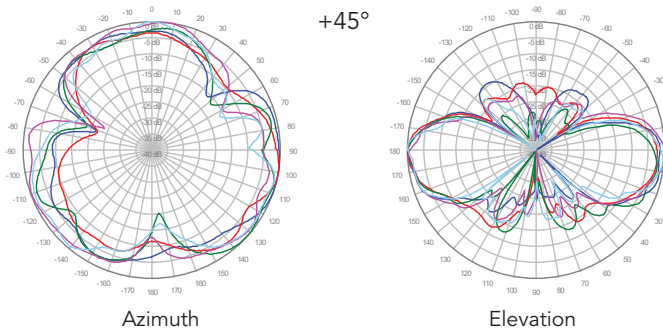
4U6VT360X06F_{xys}5

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

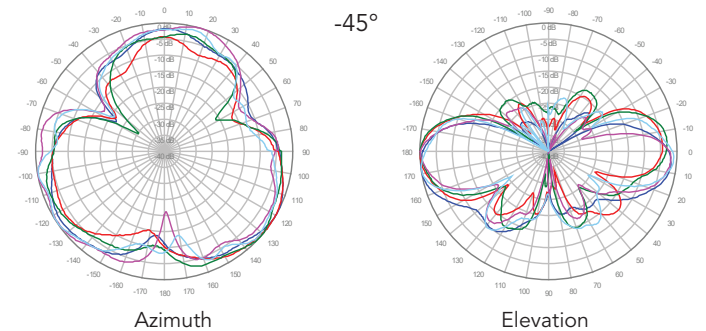
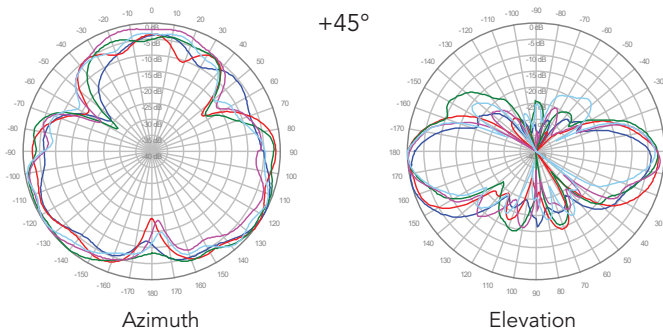
Y1, 6° TILT



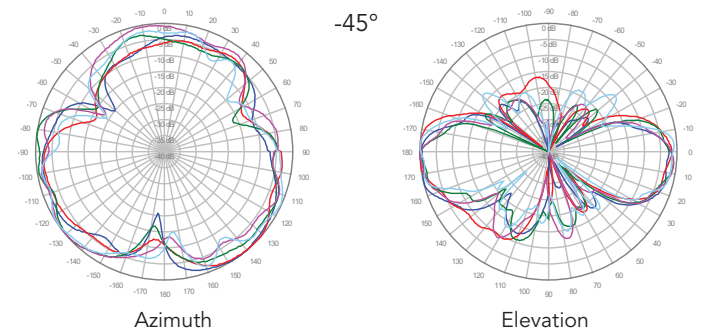
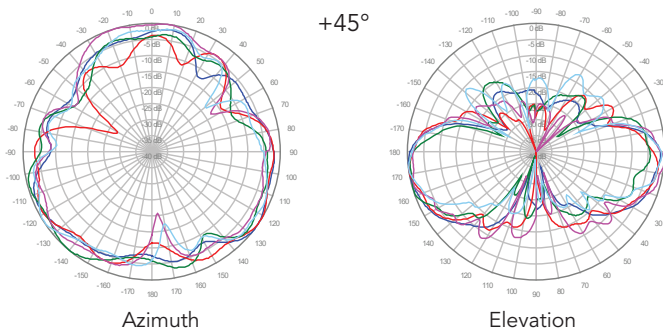
Y2, 6° TILT



Y3, 6° TILT



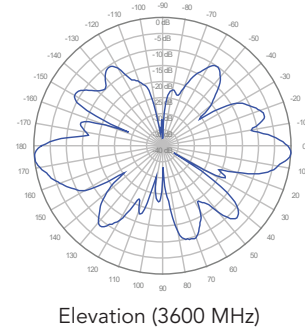
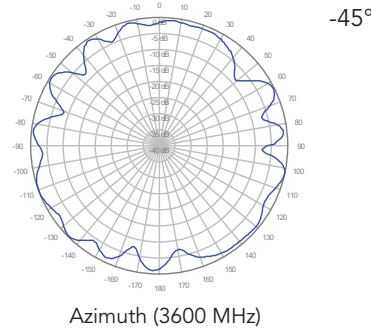
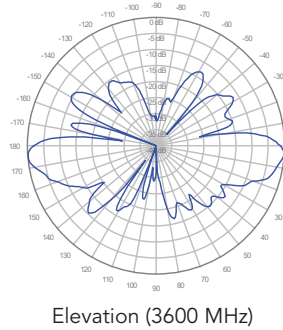
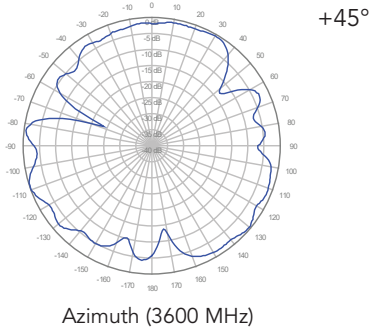
Y4, 6° TILT



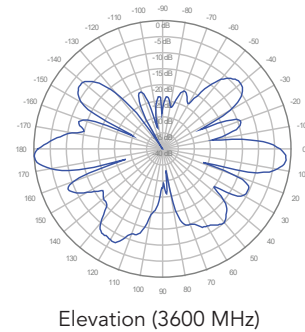
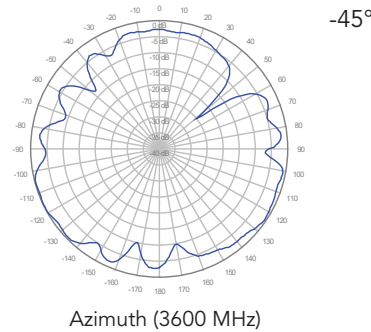
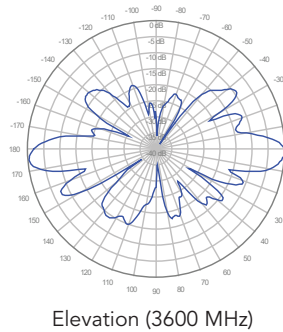
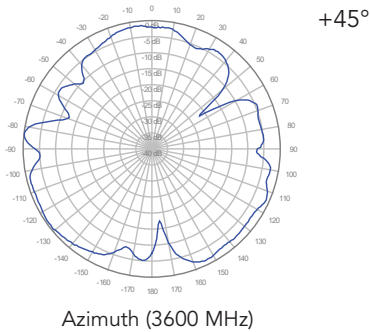
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

4U6VT360X06F_{xy}s5

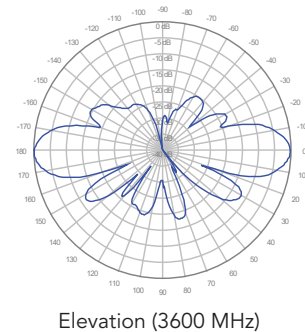
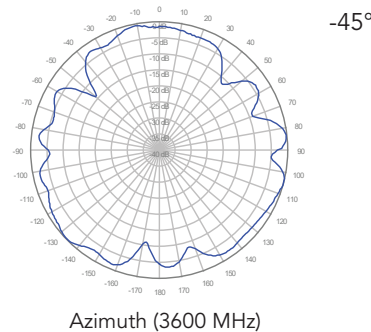
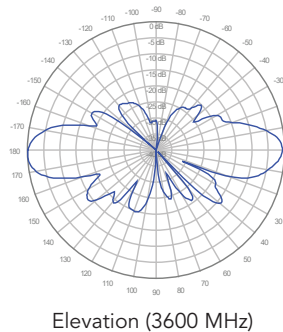
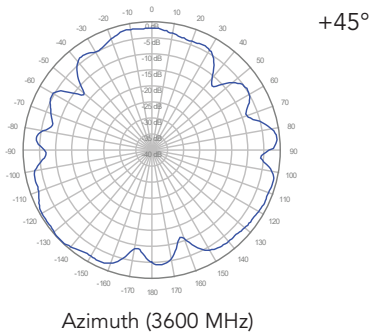
P1, 2° TILT



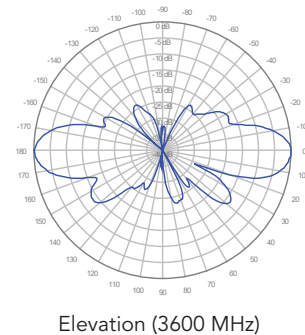
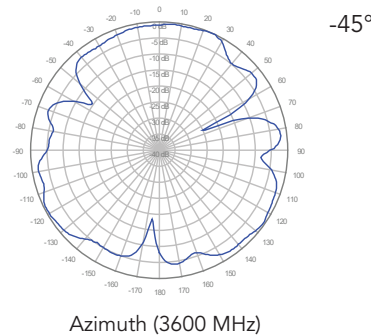
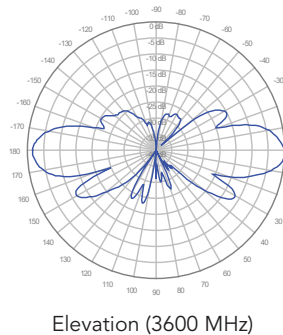
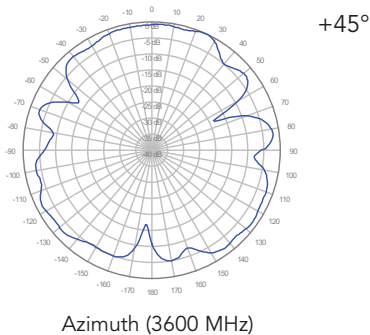
P2, 2° TILT



P3, 2° TILT



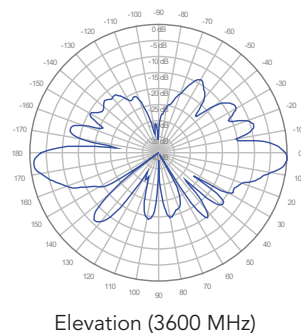
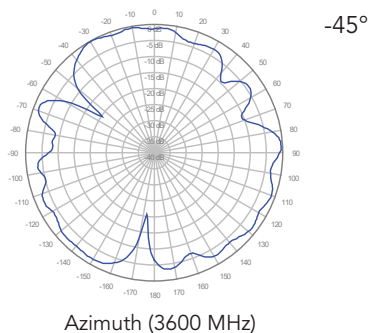
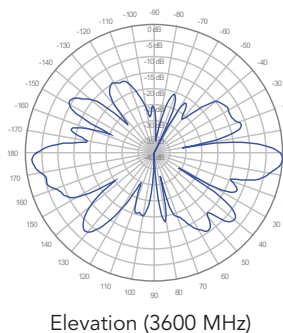
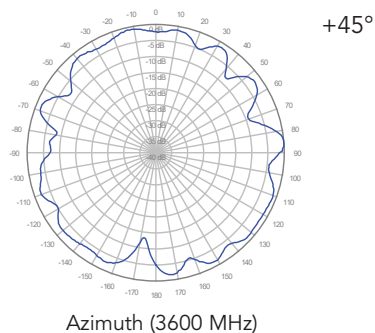
P4, 2° TILT



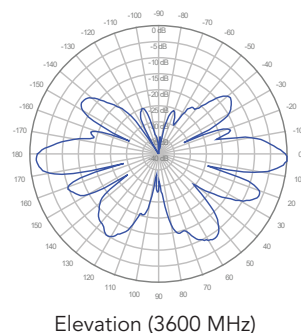
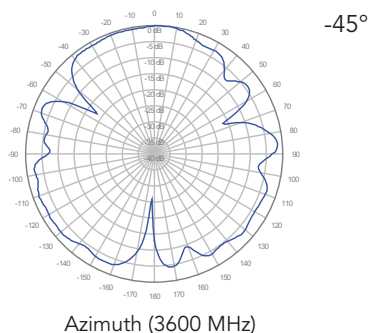
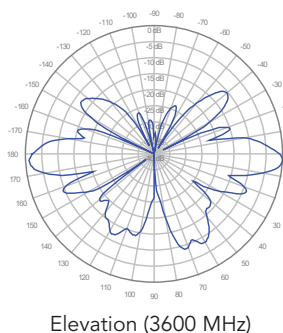
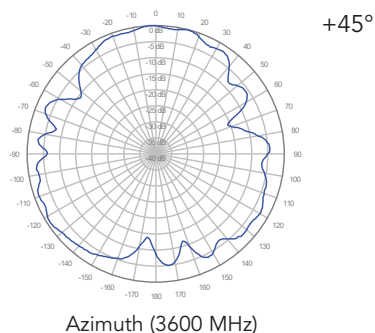
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

4U6VT360X06F_{xy}s5

P5, 2° TILT

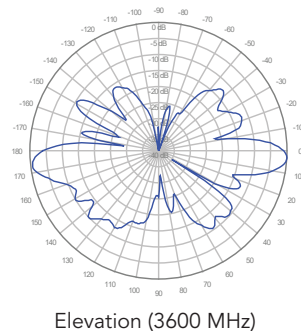
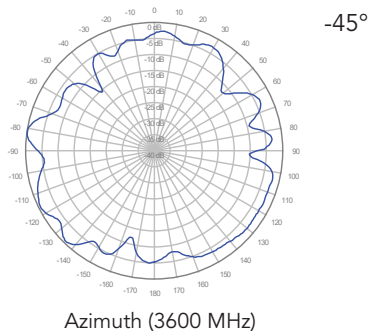
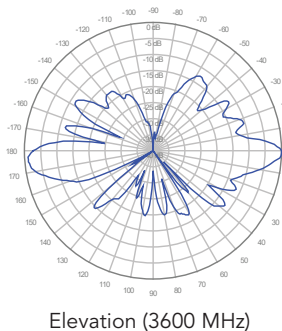
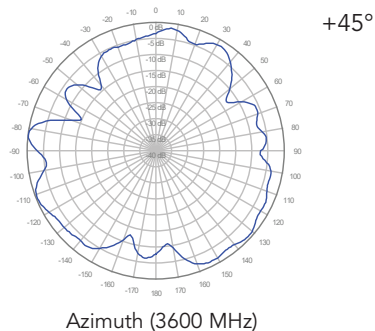


P6, 2° TILT

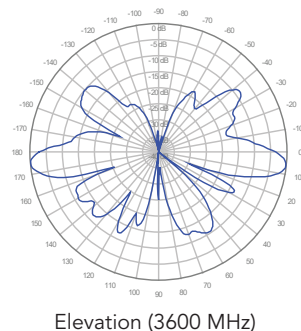
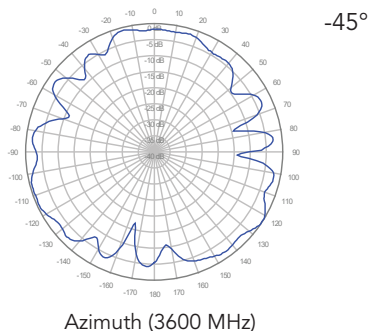
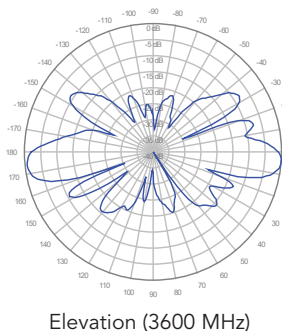
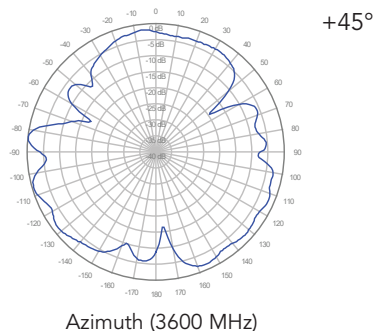


4U6VT360X06F_{xy}s5

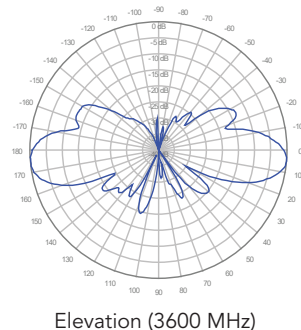
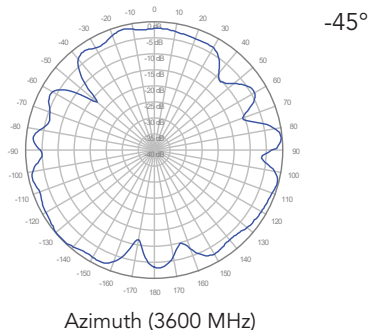
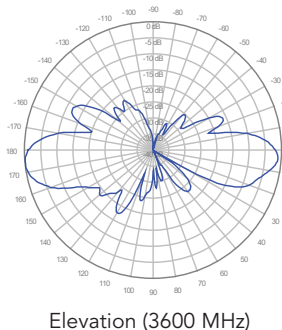
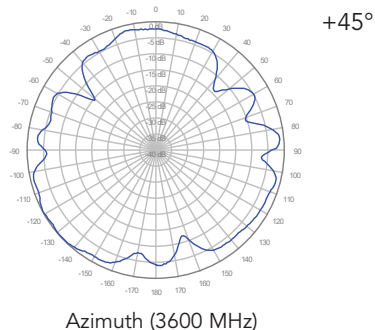
P1, 4° TILT



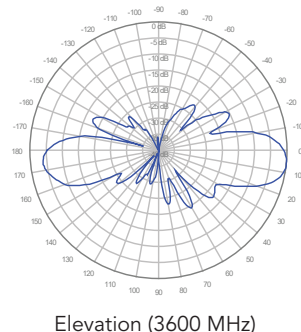
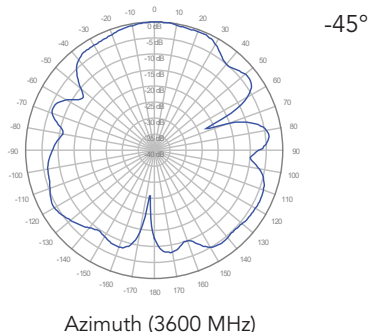
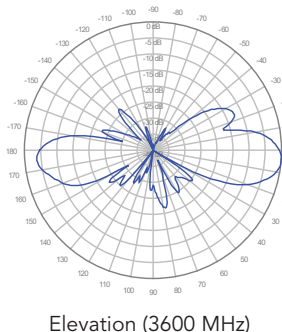
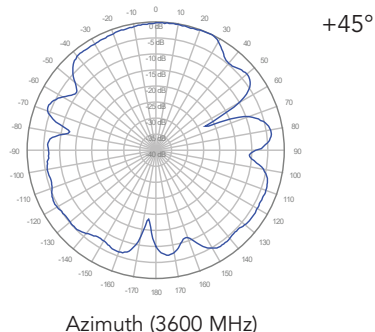
P2, 4° TILT



P3, 4° TILT



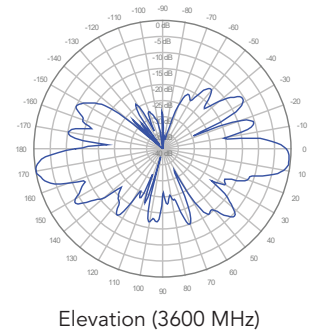
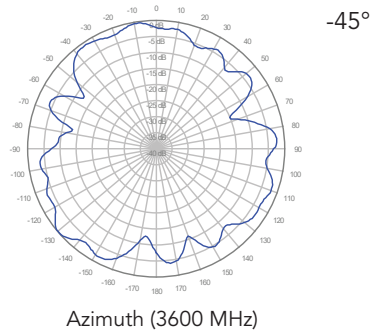
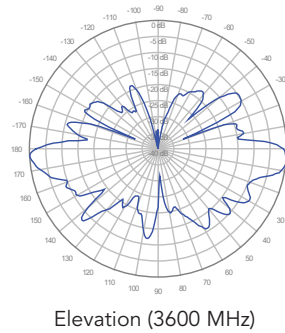
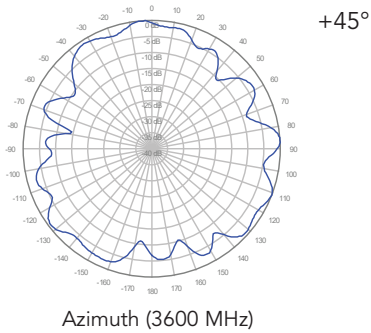
P4, 4° TILT



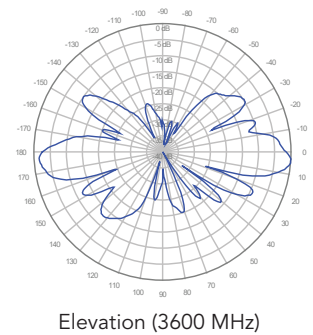
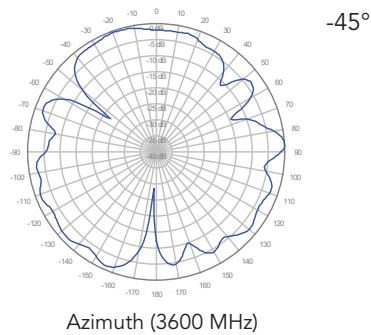
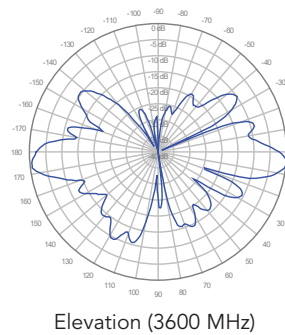
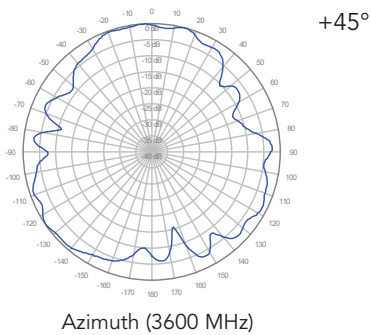
Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage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

4U6VT360X06F_{xy}s5

■ P5, 4° TILT

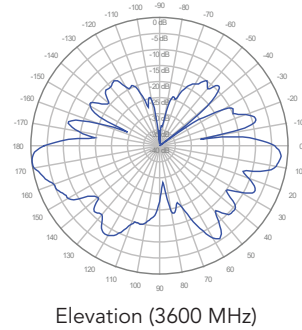
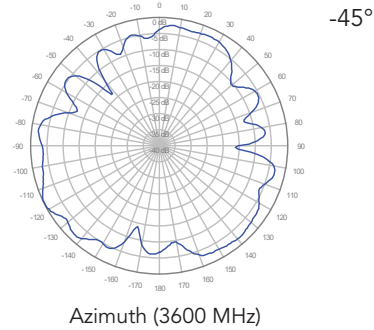
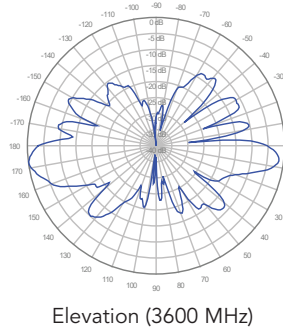
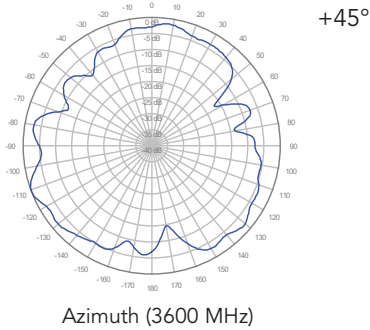


■ P6, 4° TILT

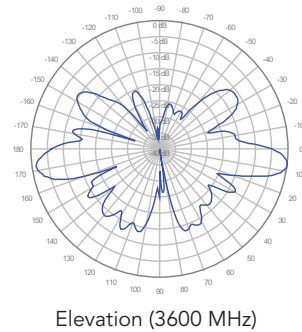
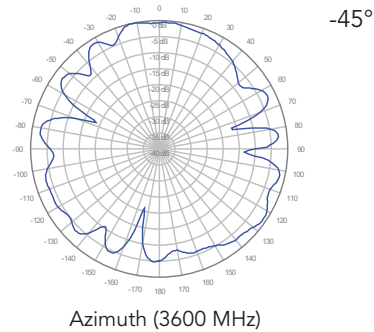
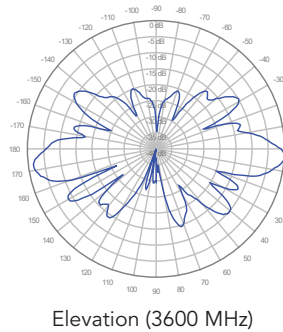
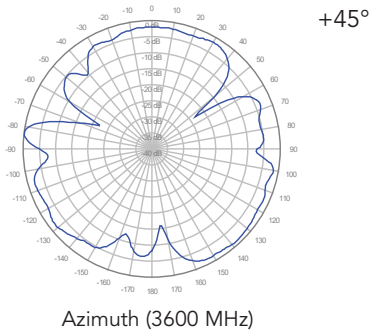


4U6VT360X06F_{xy}s5

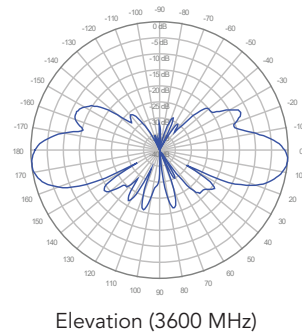
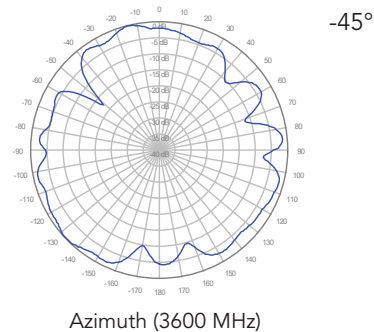
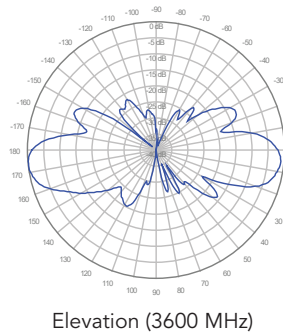
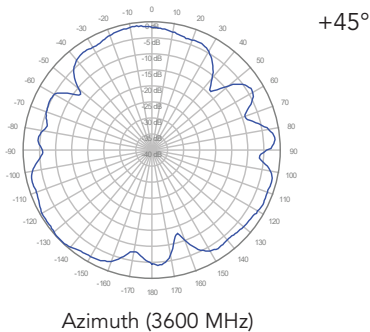
P1, 6° TILT



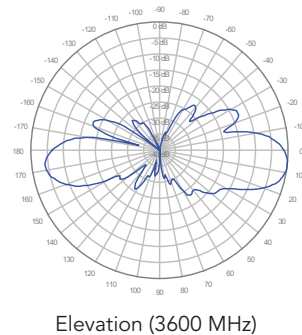
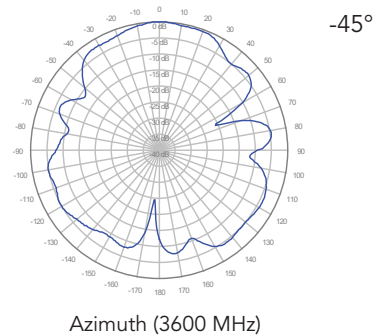
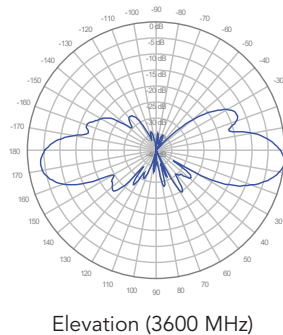
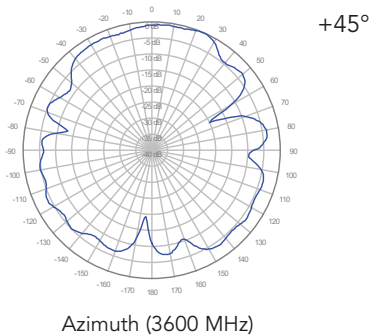
P2, 6° TILT



P3, 6° TILT



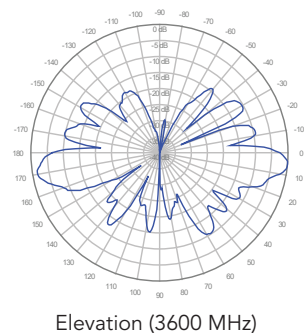
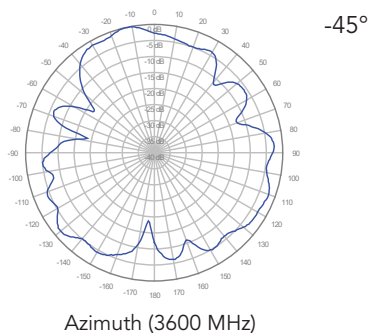
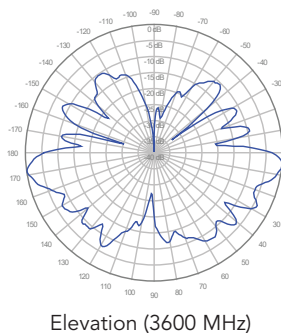
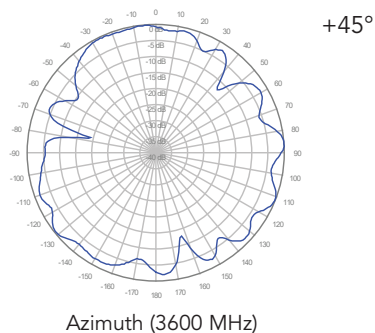
P4, 6° TILT



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.

4U6VT360X06F_{xy}s5

P5, 6° TILT



P6, 6° TILT

