

(2x) 698-960 | (6x) 1695-2700 | (4x) 3300-4200 MHz

HEART-SHAPE 23.9 IN

FIXED TILT

2C6U4VD120X06Fwxys4

Features

- 120° heart-shape configuration with 24 connectors
- Ideal for multi-carrier or MIMO deployments
- Broadband networks 698-960 MHz, 1695-2700 and 3300-4200 MHz
- Easily removable lifting ring
- Improvements in gain, port isolation and VSWR



	Frequency Range (MHz)	(2x) 698-960	(6x) 1695-2700	(4x) 3300-4200				
	Array	■ R1 ■ R2	Y1 Y2 Y3 Y4 Y5 Y6	■ P1 ■ P2 ■ P3 ■ P4				
_	Connector	4 PORTS	12 PORTS	8 PORTS				
ĮĘ.	Polarization	XPOL	XPOL	XPOL				
VERVIEW	Azimuth Beamwidth (avg)	120°	120°	120°				
o	Electrical Downtilt	0°	2°, 4°, 6°	0°				
5	Configuration		HEART-SHAPE CONFIGURATION					
PRODUCT	Maximum Continuous Power Per Port @ 50° C (122° F)	100 WATTS	80 WATTS	60 WATTS				
E	Maximum Total Continuous Power at 50° C (122° F)	1840 WATTS						
	Connector Type	(24x) 4.3-10 FEMALE						
	Dimensions	608 x Ø371 mm (23.9 x Ø14.6 in)						
	Radome Color Options	GREY, BROWN or BLACK						

ELECTRICAL SPECIFICATIONS

R 1	R2
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nge	MHz	(2x) 698-960			
b-Range	MHz	698-806 806-960			
		±45°			
BASTA	dBi	5.1 ± 0.8	5.2 ± 0.7		
MAX	dBi	5.9	5.9		
nwidth (3 dB)	degrees	131.5° ± 17.9°	123.6° ± 29.6°		
amwidth (3 dB)	degrees	71.9° ± 26.2°	67° ± 16.5°		
vntilt	degrees	(w) 0°			
	Ohms	50Ω			
		1.5:1			
nodulation 2x20 W Carriers	dBc	< -153			
oe Suppression	dB	N/A			
Intraband	dB	>	25		
Interband	dB	> 28 same band; > 30 different bands			
	b-Range BASTA MAX nwidth (3 dB) mwidth (3 dB) ntilt nodulation 2x20 W Carriers be Suppression Intraband	b-Range MHz BASTA dBi MAX dBi mwidth (3 dB) degrees mwidth (3 dB) degrees mwidth (3 dB) degrees ontilt degrees Dodulation 2x20 W Carriers De Suppression dB Intraband dB	b-Range		



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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				±4	45°			
<u> </u>	BASTA	dBi	6.9 ± 0.9	6.9 ± 1.1	6.8 ± 1.1	7.4 ± 1.0		
Gain	MAX	dBi	7.8	8.0	7.9	8.4		
Azimuth Be	amwidth (3 dB)	degrees	110.2° ± 41°	122.9° ± 45.1°	121.3° ± 40.9°	102.8° ± 33.9°		
Elevation B	Elevation Beamwidth (3 dB)		43.6° ± 11.4°	42° ± 10.9°	38.5° ± 10.9°	32.4° ± 7.8°		
Electrical D	owntilt	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					
la alatia a	Intraband	dB	> 25					
Isolation	Interband	dB	> 28 same band; > 30 different bands					

ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS ■ P1 ■ P2 ■ P3 ■ P4							
Frequency Range		MHz	(4x) 3300-4200				
Frequency Sub-Range		MHz	3300-3550 3550-3700		3700-4200		
Polarization			±45°				
Gain	BASTA	dBi	6.7 ± 0.9	6.7 ± 0.6	6.5 ± 0.8		
Gain	MAX	dBi	7.6	7.3	7.3		
Azimuth Be	amwidth (3 dB)	degrees	107.3° ± 34.6°	107.7° ± 36°	124.8° ± 33.6°		
Elevation Be	Elevation Beamwidth (3 dB)		25.2° ± 6.2°	25.3° ± 7.1°	24.6° ± 6.6°		
Electrical Do	owntilt	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				
loolotion	Intraband	dB	> 25				
Isolation	Interband	dB	> 28 same band; > 30 different bands				



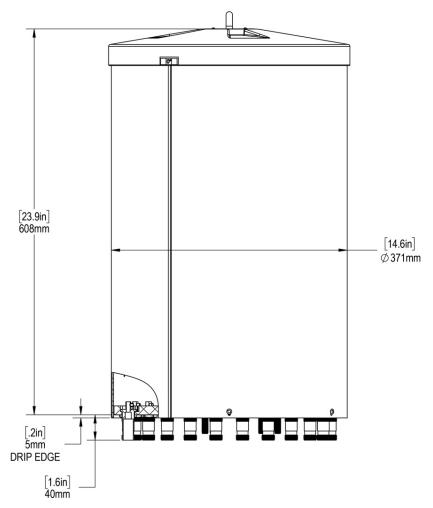
(2x) 698-960 | (6x) 1695-2700 | (4x) 3300-4200 MHz

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MECHANICAL SPECIFICATIONS

Antenna	Height		mm (in)	608 (23.9)	
Ante	Diameter		mm (in)	371 (14.6)	
Net Weight - Antenna Only			kg (lbs)	18.1 (40)	
المحال	Windload		km/h (mph)	160 (100)	
vviriai			N (lbf)	191 (43)	
Surviv	Survival Wind Speed		km/h (mph)	241 (150)	
Wind	Wind Area		m² (ft²)	0.22 (2.4)	
Volum	Volume		m³ (ft³)	0.07 (2.3)	
Conne	actor	Туре		(24x) 4.3-10 Female	
Conne	ector	Position		Bottom	
Radome Color			Grey (RAL 7035) Brown (RAL 8022) Black (RAL 9011)		
Lightn	ing Protection (Ground	ding Type)		Direct Ground	





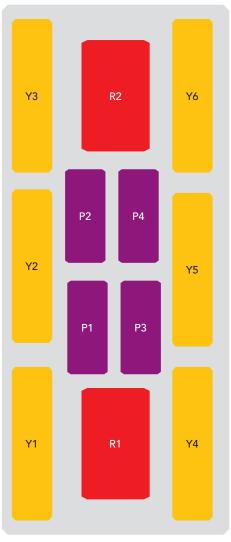
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ARRAY LAYOUT Topology

ARRAI LATOOT Topology								
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE					
698-960 MHz	■ R1	1-2	(2x) 4.3-10 Female					
698-960 MHz	■ R1	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					
1695-2700 MHz	■ Y3	9-10	(2x) 4.3-10 Female					
1695-2700 MHz	■ Y4	11-12	(2x) 4.3-10 Female					
1695-2700 MHz	■ Y5	13-14	(2x) 4.3-10 Female					
1695-2700 MHz	■ Y6	15-16	(2x) 4.3-10 Female					
3300-4200 MHz	■ P1	17-18	(2x) 4.3-10 Female					
3300-4200 MHz	■ P2	19-20	(2x) 4.3-10 Female					
3300-4200 MHz	■ P3	21-22	(2x) 4.3-10 Female					
3300-4200 MHz	■ P4	23-24	(2x) 4.3-10 Female					



The illustration is not shown to scale.



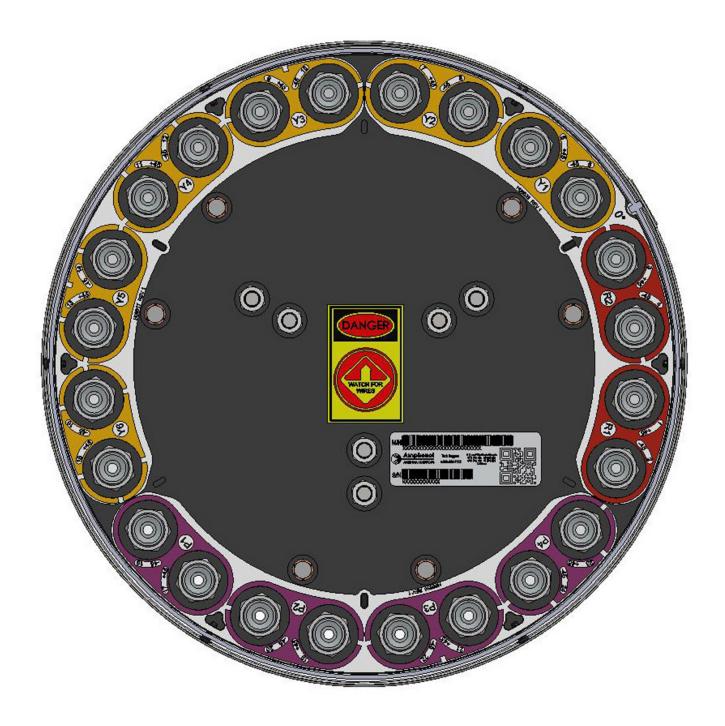


HEART-SHAPE 23.9 IN FIXED TILT

2C6U4VD120X06Fwxys4

BOTTOM VIEW - LABELING

Amphenol ANTENNAS

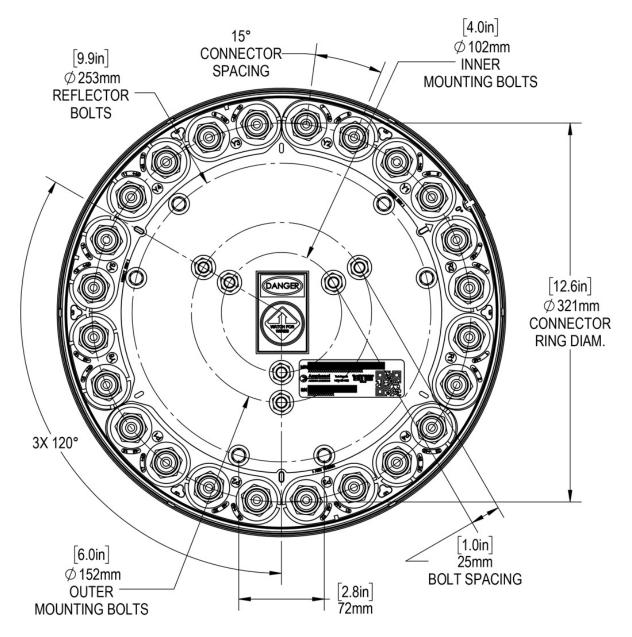


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HEART-SHAPE 23.9 IN FIXED TILT

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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.



(2x) 698-960 | (6x) 1695-2700 | (4x) 3300-4200 MHz

HEART-SHAPE 23.9 IN FIXED TILT

2C6U4VD120X06Fwxys4

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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HEART-SHAPE 23.9 IN FIXED TILT

2C6U4VD120X06Fwxys4

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

	ER OF BAI TING FREG		PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA- TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	RADOME COLOR OPTIONS
2C	6U	4V	D	120	X	06	F	wxy	s	4	BK BR
(2x) 698- 960	(6x) 1695- 2700	(4x) 3300- 4200	Dual Sector Heart- Shape	120°	XPOL	0.6 meters	Fixed Tilt	These letters are placeholders for fixed tilt options. Refer to Electrical Specifications for available tilt options.		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

CELECT DADOME COLOR	SELECT DEGRE	EE OF ELECTRICAL DOWNTILT FO	MODEL NUMBER		
SELECT RADOME COLOR	698-960 MHz	1695-2700 MHz	3300-4200 MHz	MODEL NUMBER	
	0°	2°	0°	2C6U4VD120X06F020s4	
Grey RAL 7035	0°	4°	0°	2C6U4VD120X06F040s4	
	0°	6°	0°	2C6U4VD120X06F060s4	
	0°	2°	0°	2C6U4VD120X06F020s4BR	
Brown RAL 8022	0°	4°	0°	2C6U4VD120X06F040s4BR	
	0°	6°	0°	2C6U4VD120X06F060s4BR	
	0°	2°	0°	2C6U4VD120X06F020s4BK	
Black RAL 9011	0°	4°	0°	2C6U4VD120X06F040s4BK	
	0°	6°	0°	2C6U4VD120X06F060s4BK	



Azimuth

24-Port Canister Antenna

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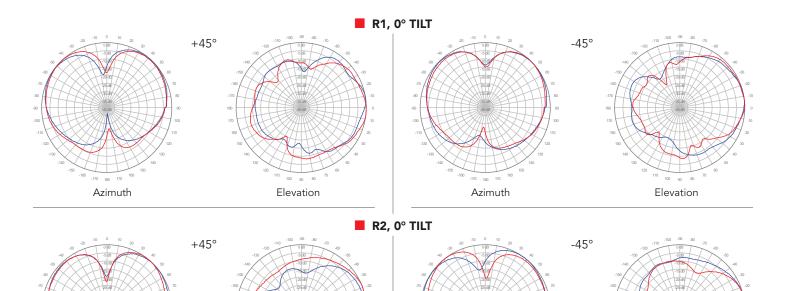
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Elevation

750 MHz

850 MHz

2C6U4VD120X06Fwxys4



Azimuth

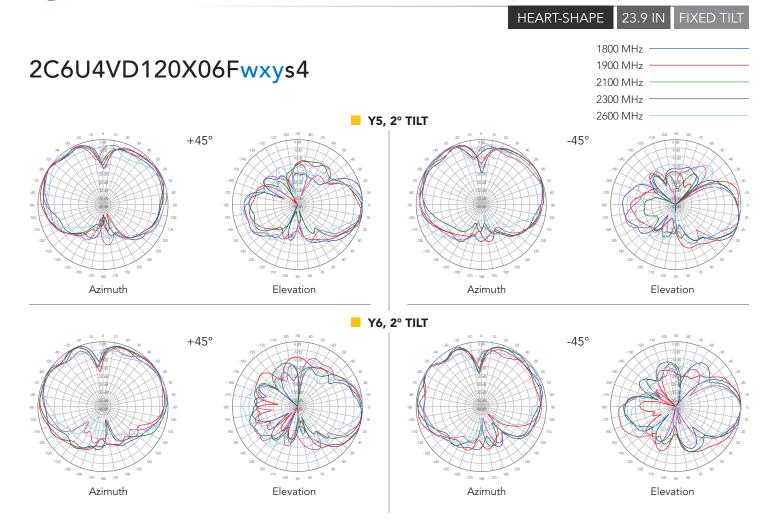
Elevation

(2x) 698-960 | (6x) 1695-2700 | (4x) 3300-4200 MHz

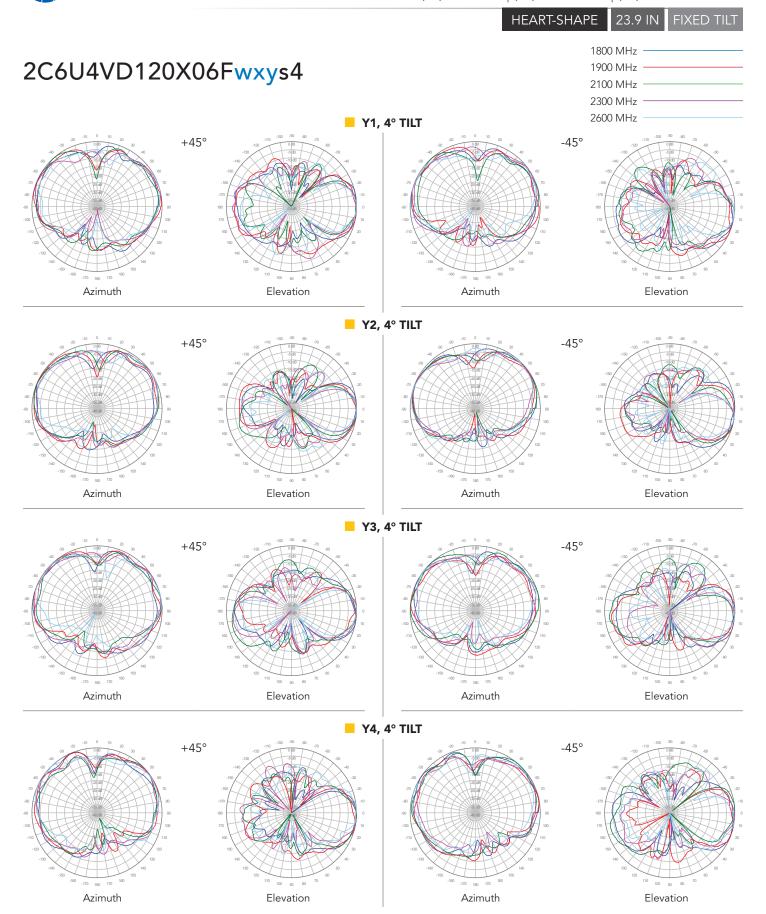




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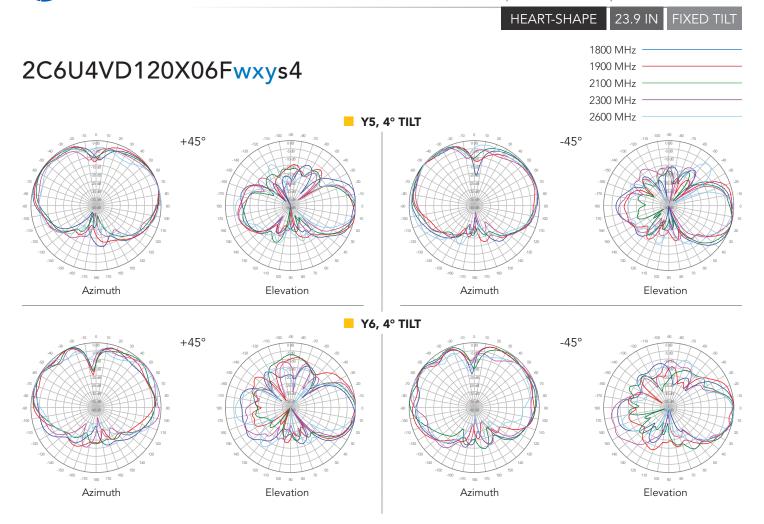


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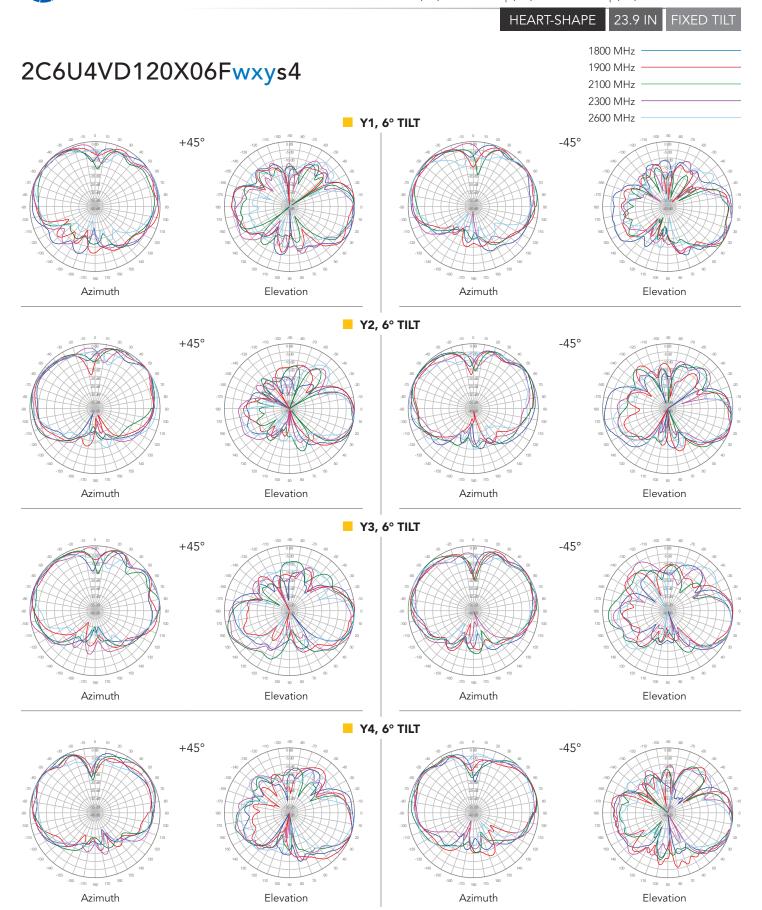




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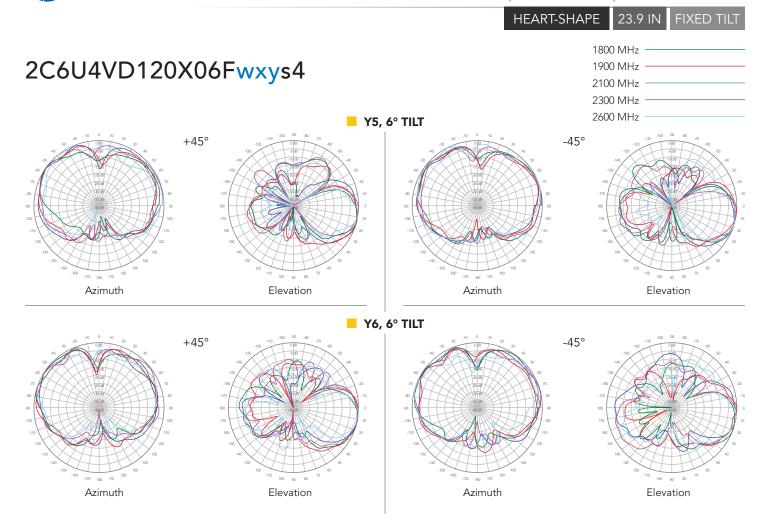


(2x) 698-960 | (6x) 1695-2700 | (4x) 3300-4200 MHz





(2x) 698-960 | (6x) 1695-2700 | (4x) 3300-4200 MHz



3600 MHz

4000 MHz

(2x) 698-960 | (6x) 1695-2700 | (4x) 3300-4200 MHz

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