

(2x) 696-960 | (2x) 1695-2700 | (2x) 3300-4200 MHz

33° SPLIT BEAM

R1 R2

12.0 IN

FIXED TILT

CUVX033S1F0

Features

- 33° split beam antenna
- 12-port fixed tilt
- 4-ports each for 696-960, 1695-2700 and 3300-4200 MHz
- Available with continuous adjustment "stadium" mounting option for azimuth and elevation adjustment



	Frequency Range (MHz)	(2x) 696-960	(2x) 1695-2700	(2x) 3300-4200				
	Array	■ R1 ■ R2	■ Y1 ■ Y2	■ P1 ■ P2				
	Connector	4 PORTS	4 PORTS	4 PORTS				
ĒW	Polarization	XPOL	XPOL	XPOL				
rerview	Azimuth Beamwidth (avg)	33°	33°	33°				
OVE	Electrical Downtilt	0°	0°	0°				
ODUCT	Maximum Continuous Power Per Port @ 50° C (122° F)	500 WATTS	300 WATTS	100 WATTS				
PROD	Maximum Total Continuous Power at 50° C (122° F)	3600 WATTS						
	Connector Type	(12x) 4.3-10 FEMALE						
	Dimensions	306 x 589 x 177 mm (12.0 x 23.2 x 7.0 in)						
	Radome Color Options	GREY						

ELECTRICAL SPECIFICATIONS

Frequency	Range	MHz	(2x) 696-960				
Frequency :	Sub-Range	MHz	696-806	806-960			
Polarization			(2x) ±45°				
C -: -	BASTA	dBi	10.4 ± 0.5	10.8 ± 0.7			
Gain	MAX	dBi	10.9	11.5			
Azimuth Be	amwidth (3 dB)	degrees	38.6° ± 3.4°	35.1° ± 5.3°			
Elevation B	Beamwidth (3 dB)	degrees	72.2° ± 5.3°	69.2° ± 10.0°			
Electrical D	owntilt	degrees	0°				
Impedance		Ohms	50Ω				
VSWR			≤ 1.6:1				
	ermodulation or 2x20 W Carriers	dBc	< -153				
Upper Side	lobe Suppression	dB	N/A				
La da Cara	Intraband	dB	>	23			
Isolation	Interband	dB	>	23			



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ELECTRICAL SPECIFICATIONS

Y1	Y2
Y 1	Y

Frequency Range		MHz	(2x) 1695-2700					
Frequency S	Sub-Range	MHz	1695-1880	1850-1990	1920-2200	2300-2700		
Polarization			(2x) ±45°					
	BASTA	dBi	11.3 ± 1.2	11.4 ± 1.0	11.5 ± 0.7	12.0 ± 1.1		
Gain	MAX	dBi	12.5	12.4	12.2	13.1		
Azimuth Beamwidth (3 dB)		degrees	35.9° ± 6.4°	34.6° ± 5.6°	35.7° ± 6.6°	28.8° ± 6.6°		
Elevation Beamwidth (3 dB)		degrees	48.9° ± 10.7°	51.7° ± 9.4°	56.4° ± 10.9°	61.8° ± 20.1°		
Electrical D	Electrical Downtilt		0°					
Impedance		Ohms	50Ω					
VSWR			≤ 1.6:1					
	rmodulation or 2x20 W Carriers	dBc	< -153					
Upper Sidelobe Suppression		dB	N/A					
Te allaga e	Intraband	dB	> 20		20			
Isolation	Interband	dB		> 24				

ELECTRICAL SPECIFICATIONS



Frequency Range		MHz	(2x) 3300-4200				
Frequency S	ub-Range	MHz	3300-3550 3550-3700		3700-4200		
Polarization			(2x) ±45°				
<u> </u>	BASTA	dBi	11.7 ± 0.7	11.9 ± 0.6	11.9 ± 0.6		
Gain	MAX	dBi	12.4	12.5	12.5		
Azimuth Beamwidth (3 dB)		degrees	36.4° ± 4.6° 34.5° ± 2.0°		31.3° ± 4.4°		
Elevation Beamwidth (3 dB)		degrees	60.2° ± 11.4° 59.3° ± 10.2°		58.8° ± 9.6°		
Electrical Do	Electrical Downtilt		0°				
Impedance		Ohms	50Ω				
VSWR			≤ 1.6:1				
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153				
Upper Sidelobe Suppression		dB	N/A				
Isolation	Intraband	dB		> 20			
isolation	Interband	dB		> 24			

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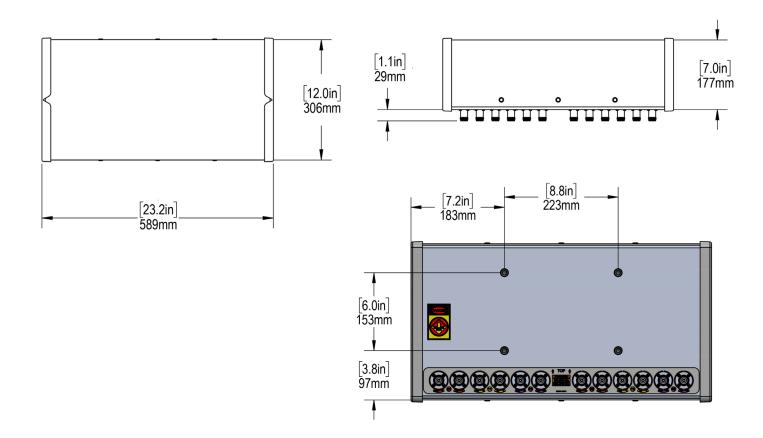
12.0 IN

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MECHANICAL SPECIFICATIONS

na	Length		mm (in)	306 (12.0)		
Antenna	Width		mm (in)	589 (23.2)		
₹	Depth		mm (in)	177 (7.0)		
Net W	Net Weight - Antenna Only			4.6 (10)		
Calculation			km/h (mph)	161 (100)		
Windl	oad	Frontal	N (lbf)	219 (49)		
		Lateral	N (lbf)	80 (18)		
Surviv	al Wind Speed		km/h (mph)	241 (150)		
		Туре		4.3-10 Female		
Conne	ector	Quantity		12		
		Position		Back		
Radome Color			Grey			
Operating Temperature		degree	-40° to +60° C (-40° to +140° F)			
Lightning Protection (Grounding Type)				Direct Ground		





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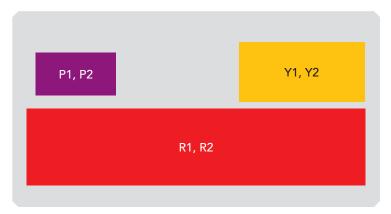
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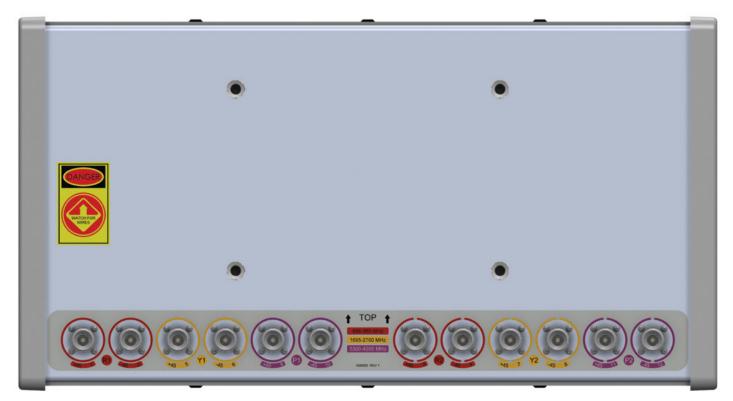
ARRAY LAYOUT Topology

1 37									
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE						
696-960 MHz	■ R1	1-2	(2x) 4.3-10 Female						
696-960 MHz	■ R2	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						
3300-4200 MHz	■ P1	9-10	(2x) 4.3-10 Female						
3300-4200 MHz	■ P2	11-12	(2x) 4.3-10 Female						



The illustration is not shown to scale.

CONNECTOR VIEW - LABELING



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MOUNTING KITS Select from the following mounting options when ordering

MODEL NUMBER	DESCRIPTION	FITS PIPE DIAMETER	WEIGHT
MKS09P01	2-POINT MOUNTING BRACKET KIT	50-115 mm (2.0-4.5 in)	2.9 kg (6 lbs)
11100010	CONTINUOUS ADJUSTMENT MOUNTING BRACKET KIT FOR WALL OR POLE MOUNT Allows continuous adjustment of the azimuth and elevation; Straps for Pole Mounting are NOT included.	50-203 mm (2.0-8.0 in)	2.4 kg (5.4 lbs)



The antennas shown in the mounting kit illustrations above are generic representations and may not resemble the antenna described within this data sheet.

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

OPEDAT	TING FREC	DIENCY	POLARIZATION	AZIMUTH	ANTENNA	LENGTH	TILT	DEGREE OF	ORDERING
OI LIVAI	, INO I NEC	ZULINCI	TOLARIZATION	BEAMWIDTH	TYPE	IN FEET	TYPE	ELECTRICAL TILT	OPTION
С	U	V	x	033	S	1	F	0	-P -S
696- 960	1695- 2700	3300- 4200	XPOL	33°	Split Beam	~ 1.0 ft	Fixed Tilt	0° for all bands	To order the antenna and mounting kit together as one line item Add a -P for the 2-POINT MOUNTING BRACKET KIT (MKS09P01) -or- Add a -S for the CONTINUOUS ADJUSTMENT MOUNTING BRACKET KIT (11100010) If -P or -S is not added, the bracket kit can be added as a separate line item, or the antenna shipped without a bracket. Refer to the ordering options for further detail.

ORDERING OPTIONS Select from the following ordering options

SELECT MOUNTING KIT	SELECT DEGREE C	ORDER MODEL NUMBER		
SEEECT MOONTING KIT	696-960 MHz	1695-2700 MHz	3300-4200 MHz	ONDER MODEL MOMBER
ANTENNA ONLY - NO MOUNTING KIT	0°	0°	0°	CUVX033S1F0
ANTENNA WITH MKS09P01 MOUNTING KIT 2-Point Mounting Bracket Kit	0°	0°	0°	CUVX033S1F0-P
ANTENNA WITH 11100010 MOUNTING KIT Continuous Adjustment Mounting Bracket Kit	0°	0°	0°	CUVX033S1F0-S



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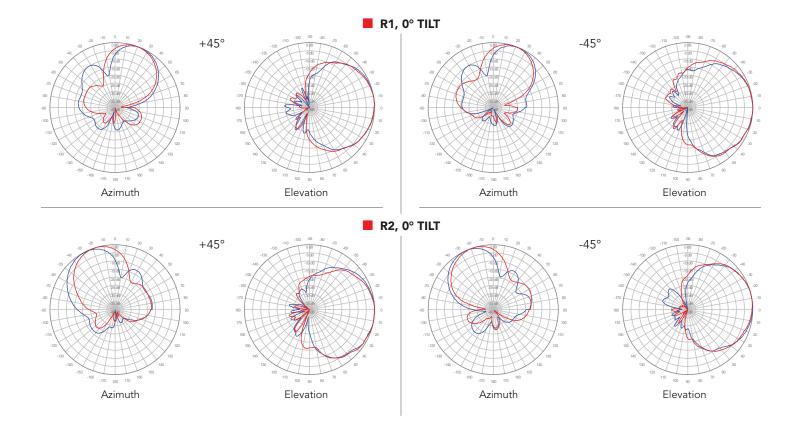
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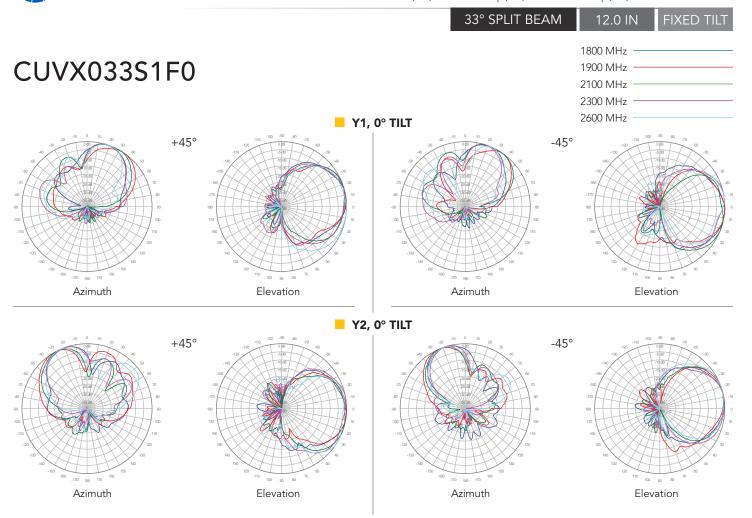
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