

2U2VB180X06F64s0

Features

- 180° peanut-shape configuration with 8 connectors
- Narrow diameter of 190 mm (7.5 in)
- Broadband networks 1695-2700 and 3300-3800 MHz
- Improvements in gain, port isolation and VSWR



PRODUCT OVERVIEW	Frequency Range (MHz)	(2x) 1695-2700	(2x) 3300-3800
	Array	■ Y1, ■ Y2	■ P1, ■ P2
	Connector	4 PORTS	4 PORTS
	Polarization	XPOL	XPOL
	Azimuth Beamwidth (avg)	77-°	68°
	Electrical Downtilt	6°	4°
	Configuration	PEANUT-SHAPE CONFIGURATION	
	Maximum Continuous Power Per Port @ 50° C (122° F)	150 WATTS	80 WATTS
	Maximum Total Continuous Power at 50° C (122° F)	920 WATTS	
	Connector Type	(8x) 4.3-10 FEMALE CONNECTORS	
	Dimensions	582 x 190 mm (22.9 x 7.5 in)	
	Radome Color Options	GREY	

ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS			■ Y1	■ Y2		
Frequency Range		MHz	(2x) 1695-2700			
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700
Polarization		---	(2x) ±45°			
Gain	BASTA	dBi	7.3 ± 0.7	7.8 ± 0.8	7.9 ± 0.9	8.5 ± 0.6
	MAX	dBi	8.0	8.6	8.8	9.1
Azimuth Beamwidth (3 dB)		degrees	76.5° ± 9°	76° ± 6.6°	79.2° ± 12.5°	77.7° ± 12.6°
Elevation Beamwidth (3 dB)		degrees	28.4° ± 4.2°	27° ± 2.8°	26.4° ± 2.9°	21.7° ± 3.4°
Electrical Downtilt		degrees	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	> 23			
	Interband	dB	> 28 same band; > 30 different bands			

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.

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ELECTRICAL SPECIFICATIONS

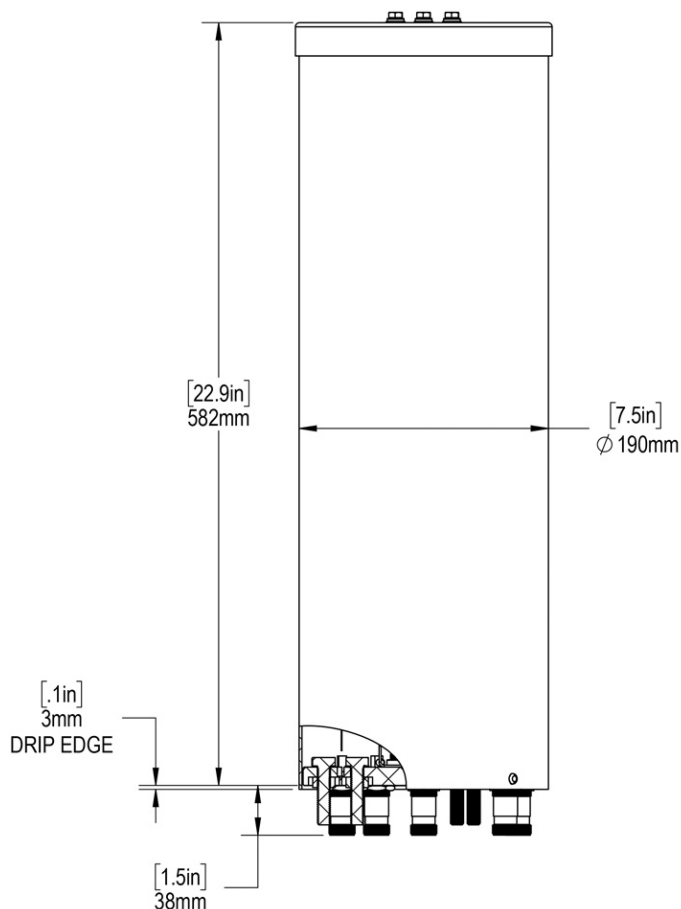
■ P1 ■ P2

Frequency Range		MHz	(2x) 3300-3800	
Frequency Sub-Range		MHz	3300-3550	3550-3800
Polarization		---	(2x) $\pm 45^\circ$	
Gain	BASTA	dBi	8.6 ± 0.7	9.0 ± 0.4
	MAX	dBi	9.3	9.4
Azimuth Beamwidth (3 dB)		degrees	$71.9^\circ \pm 7.4^\circ$	$64.1^\circ \pm 5.3^\circ$
Elevation Beamwidth (3 dB)		degrees	$18.6^\circ \pm 0.9^\circ$	$17.8^\circ \pm 1.1^\circ$
Electrical Downtilt		degrees	4°	
Impedance		Ohms	50Ω	
VSWR		---	$\leq 1.5:1$	
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153	
Upper Sidelobe Suppression		dB	> 11	> 12.6
Isolation	Intraband	dB	> 23	
	Interband	dB	> 28 same band; > 30 different bands	

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MECHANICAL SPECIFICATIONS

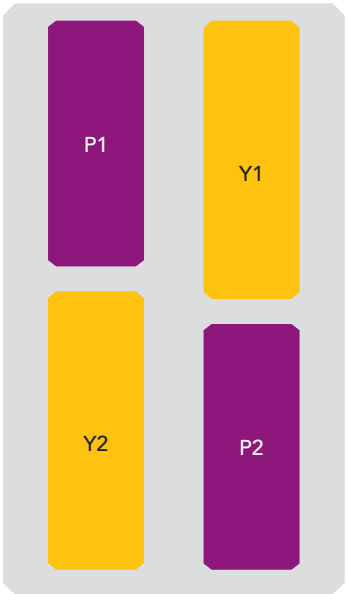
Antenna	Height	mm (in)	582 (22.9)
	Diameter	mm (in)	190 (7.5)
Net Weight - Antenna Only		kg (lbs)	5 (11)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	62 (13.7)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area		m ² (ft ²)	0.12 (1.25)
Volume		m ³ (ft ³)	0.02 (0.6)
Connector	Type	---	(8x) 4.3-10 Female
	Position	---	Bottom
Radome Color		---	Grey
Lightning Protection (Grounding Type)		---	Direct Ground



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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
3300-3800 MHz	■ P1	5-6	(2x) 4.3-10 Female
3300-3800 MHz	■ P2	7-8	(2x) 4.3-10 Female

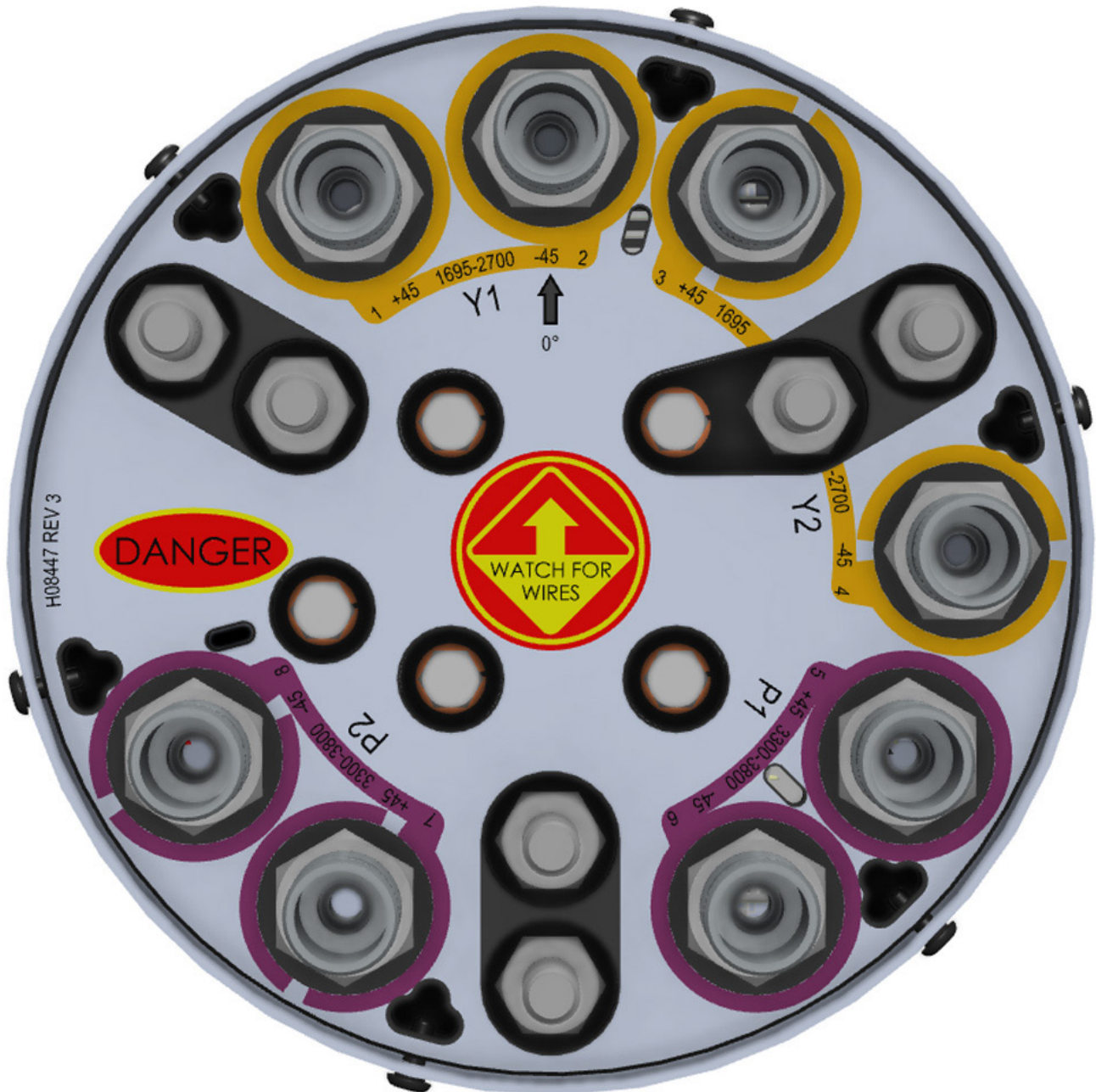


The illustration is not shown to scale.

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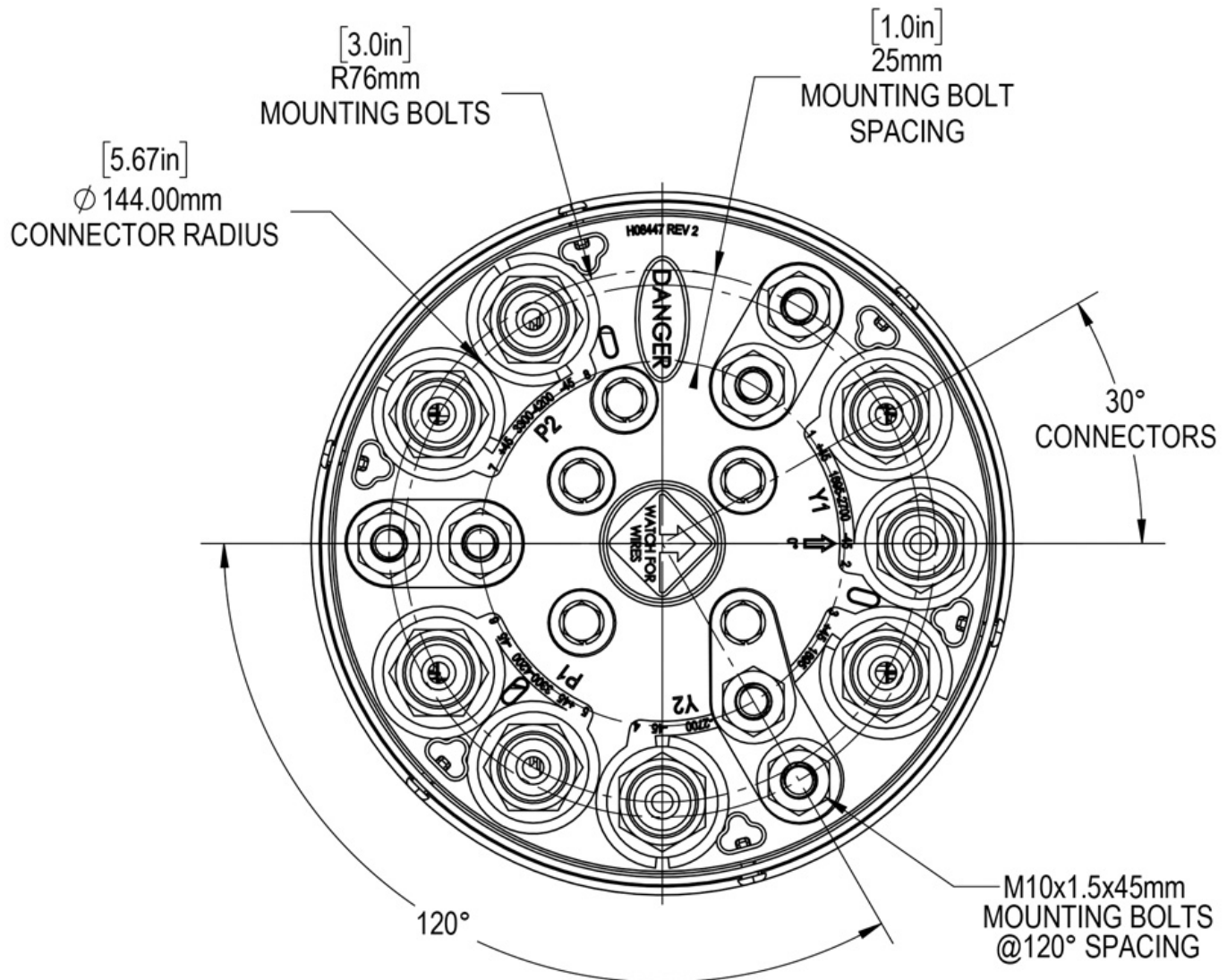
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BOTTOM VIEW - LABELING



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BOTTOM VIEW - CONNECTOR DIAGRAM



INSTALLATION Please read all installation notes before installing this product.

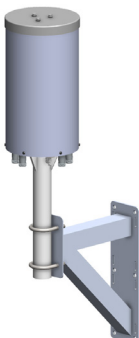
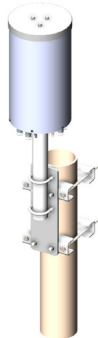


Always attach the antenna using all mounting points.

Do not install the antenna with the connectors facing upwards.

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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-SD		SMALL DIAMETER SIDE MOUNTING BRACKET KIT FOR CANISTER ANTENNA
CWT-MKS-TOP-SD		SMALL DIAMETER TOP MOUNTING BRACKET KIT FOR CANISTER ANTENNA

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HOW TO READ THE MODEL NUMBER

Each letter and number has meaning.

NUMBER OF BANDS and OPERATING FREQUENCY		PATTERN TYPE	AZIMUTH BWWIDTH	POLARIZATION	LENGTH	TILT TYPE	DEGREE OF FIXED TILT	CONNECTOR TYPE	VARIATION
2U	2V	B	180	X	06	F	64	s	0
(2x) 1695-2700	(2x) 3300-3800	Back-to-Back	~180° Peanut-Shape	XPOL	0.6 meters	Fixed Tilt	These numbers refer to the fixed electrical downtilt. 6° for the Mid Band 1695-2700 MHz and 4° for the CBRS Band 3300-3800 MHz	4.3-10 Connector	0 refers to the original mechanical package

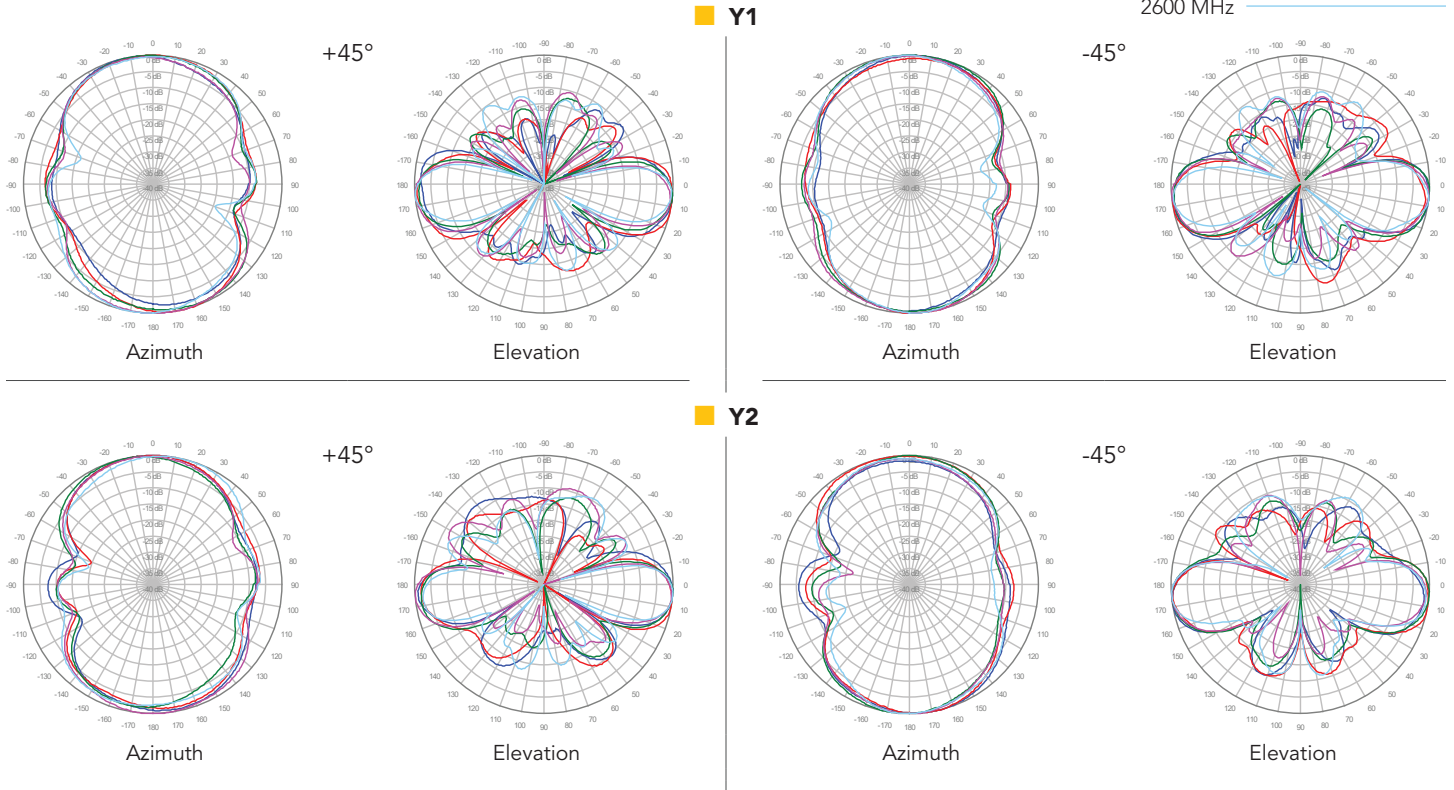
ORDERING OPTIONS

Select from the following ordering options

RADOME COLOR	SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND		MODEL NUMBER
	1695-2700 MHz	3300-3800 MHz	
Grey RAL 7035	6°	4°	2U2VB180X06F64s0

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



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3300 MHz ————
3600 MHz ————

