

## AOXVBLL06\_43-A-A20

### Features

This antenna provides a 6-port omni-directional platform for advanced use in encompassing low band 700 MHz and 800 MHz deployment scenarios and high band AWS, PCS, BRS in a high quality package design built to withstand harsh environments.

- Clover omni pattern performance
- RET on high band
- Quick and easy installation
- Includes pole mount and clamp accessories



PRODUCT OVERVIEW	Frequency Range (MHz)	(1x) 698-960	(2x) 1695-2690	
	Array	<div><div></div> R1</div>	<div><div></div> Y1</div>	<div><div></div> Y2</div>
	Connector	1-2	3-4	5-6
		2 PORTS	4 PORTS	
	Polarization	XPOL	XPOL	
	Azimuth Beamwidth (avg)	360°	360°	
	Electrical Downtilt	0°	5-18°	
	Dimensions	564 x Ø380 mm (22.2 x Ø15 in)		

### ORDERING OPTIONS Select from the following ordering options

ANTENNA MODEL NUMBER	CONFIGURATION	MOUNTING HARDWARE	MOUNTING PIPE DIAMETER	SHIPPING WEIGHT
AOXVBLL06_43-AT0	Omni-Directional Canister Manual Electrical Tilt	Pole Bracket (Quantity 1 Included)	60-120 mm (2.4-4.7 in)	17.5 kg (38.6 lbs)
AOXVBLL06_43-A-A20	Omni-Directional Canister Remote Electrical Tilt	Pole Bracket (Quantity 1 Included)	60-120 mm (2.4-4.7 in)	19 kg (41.9 lbs)

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.

## AOXVBLL06\_43-A-A20

### ELECTRICAL SPECIFICATIONS

■ R1

Frequency Range		MHz	698-960		
		MHz	698-806	790-894	880-960
Polarization		---	±45°		
Gain	Over all Tilts	dBi	5.6 ± 0.5	6 ± 0.4	6 ± 0.3
	Max Gain	dBi	6.1	6.4	6.3
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	39° ± 2.5°	36.3° ± 2.7°	33.1° ± 2.6°
Electrical Downtilt		degrees	0°		
Gain Ripple		dB	5.3	5.9	6.1
Impedance		Ohms	50Ω		
VSWR (Return Loss)		---	1.5:1 (-14 dB)		
Passive Intermodulation		dBc	-153 (3rd Order for 2x20 W Carriers)		
Maximum Effective Power Per Port		Watts	50 W		
Cross Polar Isolation Between Ports		dB	20		
Cross Polar Discrimination Over 360°		dB	7.7	8.7	9.1

Specifications follow BASTA guidelines.

### ELECTRICAL SPECIFICATIONS LEFT ARRAY

■ Y1

Frequency Range		MHz	1695-2690				
		MHz	1695-1880	1850-2010	1990-2170	2300-2400	2500-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	8 ± 0.5	8.2 ± 0.5	7.9 ± 0.7	8.2 ± 0.6	8.7 ± 1
	Max Gain	dBi	8.5	8.7	8.6	8.8	9.7
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	18° ± 2°	16.7° ± 1.7°	15.8° ± 1.8°	14.8° ± 1.6°	13.2° ± 1.1°
Electrical Downtilt		degrees	5-18°				
Gain Ripple		dB	15				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation		dBc	-153 (3rd Order for 2x20 W Carriers)				
Maximum Effective Power Per Port		Watts	50 W				
Cross Polar Isolation Between Ports		dB	20				
Cross Polar Discrimination Over 360°		dB	13.1	11.5	10.7	10.4	12.9
Upper Side Lobe Suppression Peak to +20°		dB	12.3	12.2	11	11	12.8

Specifications follow BASTA guidelines.

## AOXVBLL06\_43-A-A20

### ELECTRICAL SPECIFICATIONS RIGHT ARRAY

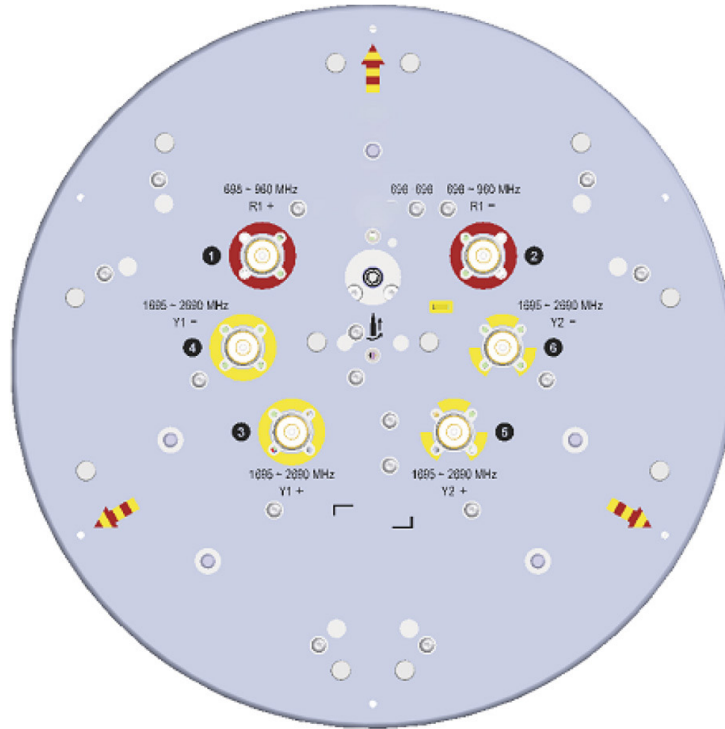
■ Y2

Frequency Range		MHz	1695-2690				
		MHz	1695-1880	1850-2010	1990-2170	2300-2400	2500-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	7.9 ± 0.4	7.9 ± 0.4	7.8 ± 0.6	8.2 ± 0.3	8.5 ± 0.9
	Max Gain	dBi	8.3	8.3	8.4	8.5	9.4
Azimuth Beamwidth (3 dB)		degrees	360°	360°	360°	360°	360°
Elevation Beamwidth (3 dB)		degrees	30.1° ± 2.8°	17.7° ± 0.3°	15.8° ± 2.1°	14.8° ± 1.3°	13.4° ± 0.8°
Electrical Downtilt		degrees	5-18°				
Gain Ripple		dB	15				
Impedance		Ohms	50Ω				
VSWR (Return Loss)		---	1.5:1 (-14 dB)				
Passive Intermodulation		dBc	-153 (3rd Order for 2x20 W Carriers)				
Maximum Effective Power Per Port		Watts	50 W				
Cross Polar Isolation Between Ports		dB	20				
Cross Polar Discrimination Over 360°		dB	12.8	11.7	11	10.3	13
Upper Side Lobe Suppression Peak to +20°		dB	11.7	11.5	12	12.3	12.1

Specifications follow BASTA guidelines.

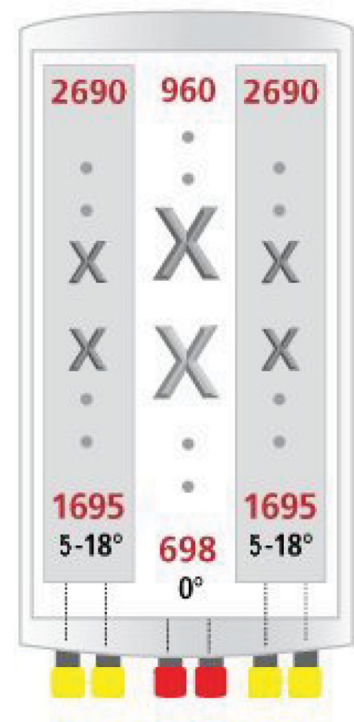
## AOXVBLL06\_43-A-A20

### BOTTOM VIEW - LABELING



### ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
<span style="color: red;">■</span> R1	698-960 MHz	1-2	(2x) 4.3-10 Long Neck Female
<span style="color: yellow;">■</span> Y1	1695-2690 MHz	3-4	(2x) 4.3-10 Long Neck Female
<span style="color: yellow;">■</span> Y2	1695-2690 MHz	5-6	(2x) 4.3-10 Long Neck Female



The illustration is not shown to scale.

## AOXVBLL06\_43-A-A20

### MECHANICAL SPECIFICATIONS

Length		mm (in)	564 (22.2)
Diameter		mm (in)	380 (15)
Net Weight - Antenna Only		kg (lbs)	11.8 (26)
Net Weight - Mounting Hardware Only		kg (lbs)	5.7 (12.6)
Wind Load  Rated at 150 km/h (93 mph)	Front	N (lbf)	165 (37)
	Side	N (lbf)	165 (37)
	Rear	N (lbf)	165 (37)
Survival Wind Speed / Rated Wind Speed		km/h (mph)	200 (160)
Connector Type		--	(6x) 4.3-10 Long Neck Female at Bottom
Mounting Hardware Material		---	Bracket (Galvanized Steel), Hose Clamps (Stainless Steel)
Radome Color		---	Light Grey RAL7035
Radome Material		---	ASA
Lightning Protection		---	Direct Ground
<b>Shipping</b>	Packing Size (Length x Width x Depth)	mm (in)	815 x 465 x 470 (32.1 x 18.3 x 18.5)
	Shipping Weight	kg (lbs)	21.5 (47.4)

### ENVIRONMENTAL SPECIFICATIONS


Environmental Standard	---	ETS 300 019-2-4 Class 4.1E
Operating Temperature	degrees	-40° to +60° C (-40° to +140° F)
Product Environmental Compliance	---	Product is RoHS Compliant

## AOXVBLL06\_43-A-A20

### ACCESSORIES Accessories may be ordered separately unless otherwise indicated.

ITEM	WEIGHT
Pole Bracket 60-120 mm (2.4-4.7 in) <i>Shipped with antenna</i>	5.7 kg (12.6 lbs)

### INSTALLATION Please read all installation notes before installing product.

	Always attach the antenna using all mounting points.
	Do not install antenna with the connectors facing upwards.

### EXTERNAL DOCUMENT LINKS

[Omni Series Installation Instructions](#)

### NOTES

Specifications follow BASTA guidelines.

For additional mounting information, please check **External Document Links**.

For Radiating Patterns: [Request pattern files](#)