



AOXVBLL06_43-A-A20

Omni-Directional Cross Polarized 6 Port Antenna, 698-960 MHz/1695-2690/1695-2690, 360 deg, 6.4/9.7/9.4 dBi, 0.6m (2ft), Variable Electrical Tilt 5-18 Deg in High Band Only

FEATURES / BENEFITS

This antenna provides a 6 port Omni-Directional platform for advanced use in encompassing low band 700MHz and 800MHz 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



Technical features

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		LOW BAND ARRAY (698-960 MHz) [R1]		
Frequency Range	MHz	698-806	790-894	880-960
Gain Typical	dBi	6.1	6.4	6.3
Gain Over All Tilts	dBi	5.6 +/- .5	6.0 +/- .4	6.0 +/- .3
Horizontal Beamwidth	deg	360		
Vertical Beamwidth	deg	39+/-2.5	36.3+/-2.7	33.1+/-2.6
Electrical Downtilt	deg	Fixed 0		
Gain Ripple	dB	5.3	5.9	6.1
Cross Polar Isolation Between Ports	dB	20		
Cross Polar Discrimination over 360	dB	7.7	8.7	9.1
VSWR	-	1.5		
3rd Order IMP 2 x 43dBm	dB	-153		
Maximum Power Input	Watts	50		



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ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND LEFT ARRAY (1695-2690 MHZ) [Y1]				
Frequency Band	MHz	1695-1880	1850-2010	1990-2170	2300-2400	2500-2690
Gain Typical	dBi	8.5	8.7	8.6	8.8	9.7
Gain Over All Tilts	dBi	8.0 +/- .5	8.2 +/- .5	7.9 +/- .7	8.2 +/- .6	8.7 +/- 1
Horizontal Beamwidth	deg	360				
Vertical Beamwidth	deg	18+/-2	16.7+/-1.7	15.8+/-1.8	14.8+/-1.6	13.2+/-1.1
Electrical Downtilt	deg	5 to 18				
Gain Ripple	dB	15				
Cross Polar Isolation Between Ports	dB	20				
Cross Polar Discrimination over 360	dB	13.1	11.5	10.7	10.4	12.9
Upper SideLobe Suppression Peak to +20	dB	12.3	12.2	11	11	12.8
VSWR	-	1.5				
3rd Order IMP 2 x 43 dBm	dB	-153				
Maximum Power Input	Watts	50				

ELECTRICAL SPECIFICATIONS

Electrical Specification Header		HIGH BAND RIGHT ARRAY (1695-2690 MHZ) [Y2]				
Frequency Band	MHz	1695-1880	1850-2010	1990-2170	2300-2400	2500-2690
Gain Typical	dBi	8.3	8.3	8.4	8.5	9.4
Gain Over All Tilts	dBi	7.9 +/- .4	7.9 +/- .4	7.8 +/- .6	8.2 +/- .3	8.5 +/- .9
Horizontal Beamwidth	deg	360				
Vertical Beamwidth	deg	30.1+/-2.8	17.7+/-0.3	15.8+/-2.1	14.8+/-1.3	13.4+/-0.8
Electrical Downtilt	deg	5 to 18				
Gain Ripple	dB	15				
Cross Polar Isolation Between Ports	dB	20				
Cross Polar Discrimination over 360	dB	12.8	11.7	11	10.3	13
Upper SideLobe Suppression Peak to +20	dB	11.7	11.5	12	12.3	12.1
VSWR	-	1.5				
3rd Order IMP 2 x 43 dBm	dB	-153				
Maximum Power Input	Watts	50				

ELECTRICAL SPECIFICATIONS

Impedance	Ohm	50				
Polarization	Deg	±45°				



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MECHANICAL SPECIFICATIONS

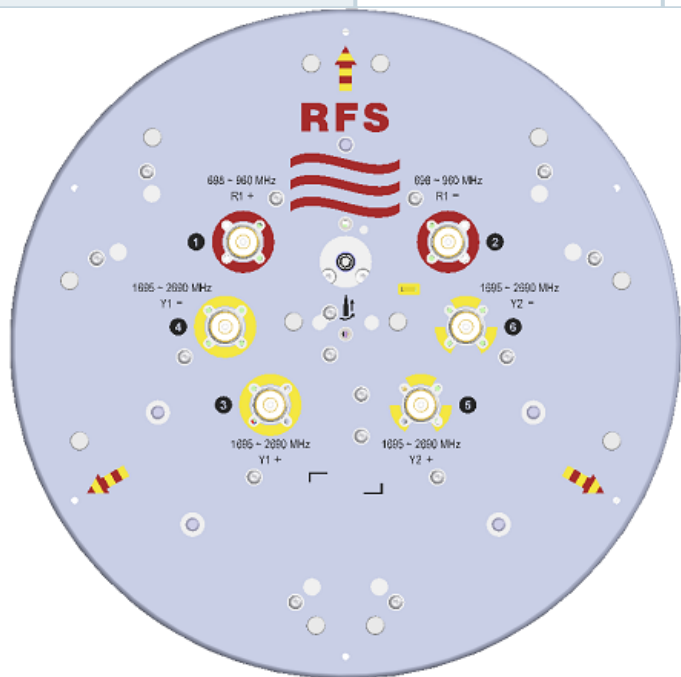
Dimensions - H x W x D	mm (in)	564 x 380 x 380 (22.2 x 15 x 15)
Weight (Antenna Only)	kg (lb)	11.8 (26)
Weight (Mounting Hardware only)	kg (lb)	5.7 (12.6)
Packing size- HxWxD	mm (in)	815 x 465 x 470 (32.1 x 18.3 x 18.5)
Shipping Weight	kg (lb)	21.5 (47.4)
Connector type		6 x 4.3-10 Long Neck Female/Bottom
Mounting Hardware Material		Bracket (Galvanized Steel) + Hose Clamps (Stainless Steel)
Radome Material / Color		ASA / Light Grey RAL7035

TESTING AND ENVIRONMENTAL

Temperature Range	°C (°F)	-40 to 60 (-40 to 140)
Lightning protection		Direct Ground
Survival/Rated Wind Velocity	km/h	200 (160)
Wind Load @Rated Wind Front	N	165
Wind Load @Rated Wind Side	N	165
Wind Load @Rated Wind Rear	N	165
Environmental		ETSI 300-019-2-4 Class 4.1E

ORDERING INFORMATION

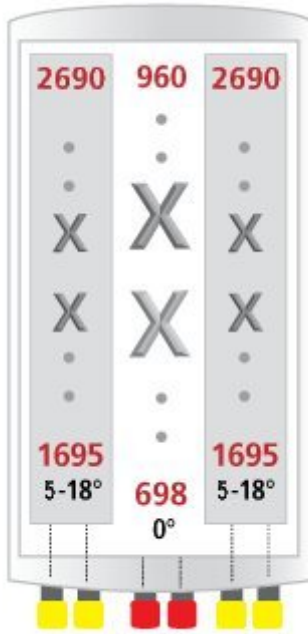
Model Number	Configuration	Mounting Hardware	Mounting pipe Diameter	Antenna Weight
AOXVBLL06_43-AT0	Omni-Directional Canister Manual Electrical Tilt	Pole Bracket (Quantity 1 Included)	60-120mm (2.36-4.72 in)	17.5kg (38.6lbs)
AOXVBLL06_43-A-A20	Omni-Directional Canister Remote Electrical Tilt	Pole Bracket (Quantity 1 Included)	60-120mm (2.36-4.72 in)	19.0kg (41.9lbs)





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External Document Links

[A_Omni Series_Installation_Instructions](#)

Notes

- All electrical parameters are compliant with BASTA NGMN 10.0 requirements.
- For additional mounting information please click "External Document Links".

- **Radiating patterns:** [Request pattern files](#)