Base Product



1.8m | 6ft ValuLine® High Performance, High XPD Antenna, dualpolarized, 10.000 – 11.700 GHz

Product Classification		
Product Type	Microwave antenna	
Product Brand	ValuLine®	
General Specifications		
Antenna Type	HX - ValuLine® High Performance, High XPD Antenna, dual-polarized	
Polarization	Dual	
Side Struts, Included	1	
Side Struts, Optional	1	
Dimensions		
Diameter, nominal	1.8 m 6 ft	
Electrical Specifications		
Operating Frequency Band	10.000 – 11.700 GHz	
Gain, Low Band	42.9 dBi	
Gain, Mid Band	43.6 dBi	
Gain, Top Band	44.3 dBi	
Boresite Cross Polarization Discrimination (XPD)	33 dB	
Front-to-Back Ratio	76 dB	
Beamwidth, Horizontal	1 °	
Beamwidth, Vertical	1 °	
Return Loss	26 dB	
VSWR	1.1	
Radiation Pattern Envelope Reference (RPE)	7378 7401	
Electrical Compliance	ACMA FX03_10a ACMA FX03_11a Canada SRSP 310.5 Canada SRSP 310.7 Part	

Page 1 of 7

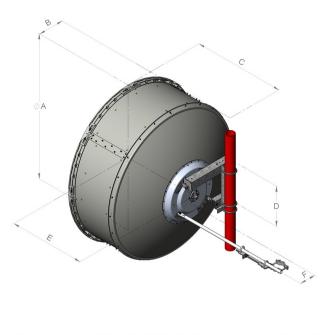


	A Canada SRSP 310.7 Part B ETSI 302 217 Class 3 US FCC Part 101A	
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 2	
Mechanical Specifications		
Compatible Mounting Pipe Diameter	115 mm-120 mm 4.5 in-4.7 in	
Fine Azimuth Adjustment Range	±15°	
Fine Elevation Adjustment Range	±5°	
Wind Speed, operational	200 km/h 124.274 mph	
Wind Speed, survival	200 km/h 124.274 mph	

Page 2 of 7



Antenna Dimensions and Mounting Information



	Dimensio	ons in inch	nes (mm)			
Antenna size, ft (m)	A	в	с	D	Е	F
6 (1.8)	74.8 (1899)	13.4 (340)	47.5 (1206)	20.9 (530)	39.4 (1001)	8.4 (214)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	6960 N 1,564.671 lbf
Angle α for MT Max	-130 °
Side Force (FS)	1566 N 352.051 lbf
Twisting Moment (MT)	3923 N-m 34,721.477 in lb
Force on Inboard Strut Side	4075 N 916.097 lbf
Zcg without Ice	363 mm 14.291 in
Zcg with 1/2 in (12 mm) Radial Ice	541 mm 21.299 in
Weight with 1/2 in (12 mm) Radial Ice	237 kg 522.495 lb

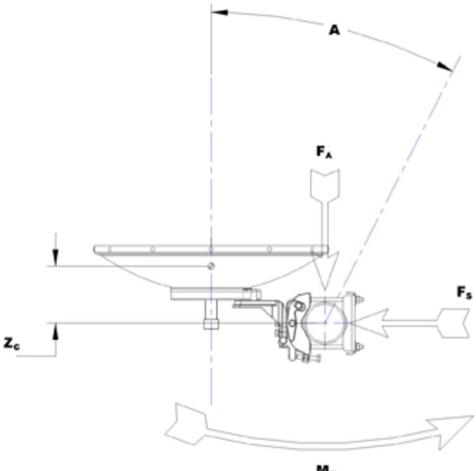
Page 3 of 7



Page 4 of 7



Wind Forces at Wind Velocity Survival Rating Image



MT

Packaging and Weights

Weight, net

85 kg | 187.393 lb

Regulatory Compliance/Certifications

Classification

Agency

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

* Footnotes

Operating Frequency Band

Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.

Page 5 of 7



HX6-11W

Gain, Mid Band	For a given frequency band, gain is primarily a function of antenna size. The gain of Andrew antennas is determined by either gain by comparison or by computer integration of the measured antenna patterns.
Boresite Cross Polarization Discrimination (XPD)	The difference between the peak of the co-polarized main beam and the maximum cross-polarized signal over an angle twice the 3 dB beamwidth of the co-polarized main beam.
Front-to-Back Ratio	Denotes highest radiation relative to the main beam, at 180° ±40°, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise.
Return Loss	The figure that indicates the proportion of radio waves incident upon the antenna that are rejected as a ratio of those that are accepted.
VSWR	Maximum; is the guaranteed Peak Voltage-Standing-Wave- Ratio within the operating band.
Radiation Pattern Envelope Reference (RPE)	Radiation patterns define an antenna's ability to discriminate against unwanted signals. Under still dry conditions, production antennas will not have any peak exceeding the current RPE by more than 3dB, maintaining an angular accuracy of +/-1° throughout
Cross Polarization Discrimination (XPD) Electrical Compliance	The difference between the peak of the co-polarized main beam and the maximum cross-polarized signal over an angle twice the 3 dB beamwidth of the co-polarized main beam.
Wind Speed, operational	For VHLP(X), SHP(X), HX and USX antennas, the wind speed where the maximum antenna deflection is 0.3 x the 3 dB beam width of the antenna. For other antennas, it is defined as a deflection is equal to or less than 0.1 degrees.
Wind Speed, survival	The maximum wind speed the antenna, including mounts and radomes, where applicable, will withstand without permanent deformation. Realignment may be required. This wind speed is applicable to antenna with the specified amount of radial ice.
Axial Force (FA)	Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.
Side Force (FS)	Maximum side force exerted on the mounting pipe as a result of wind from the most critical direction for this

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Page 6 of 7



Twisting Moment (MT)

parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

