

0.6 m | 2 ft ValuLine® High Performance Low Profile Antenna, dual band, single polarised 71.000 – 86.000 GHz and single polarised 21.200 - 23.600 GHz, OEM custom flange

Product Classification	
Product Type	Microwave antenna
Product Brand	ValuLine®
General Specifications	
Antenna Type	VHLP - ValuLine® High Performance Low Profile Antenna, dual band
Polarization	Single 80 GHz, Single 23 GHz
Antenna Input	OEM specific
Antenna Color	White
Reflector Construction	One-piece reflector
Radome Color	Gray
Radome Material	Composite Broadband
Flash Included	No
Side Struts, Included	0
Side Struts, Optional	0
Dimensions	
Diameter, nominal	0.6 m 2 ft
Electrical Specifications	
Operating Frequency Band	71.000 – 86.000 GHz
Gain, Low Band	48.5 dBi
Gain, Mid Band	49.5 dBi
Gain, Top Band	50 dBi
Boresite Cross Polarization Discrimination (XPD)	27 dB Page 1 o

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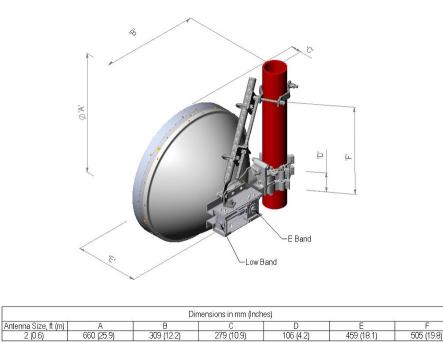
Front-to-Back Ratio	68 dB
Beamwidth, Horizontal	0.5 °
Beamwidth, Vertical	0.5 °
Return Loss	15 dB
VSWR	1.43
Radiation Pattern Envelope Reference (RPE)	7442
Electrical Compliance	ETSI 302 217 Class 3 US FCC Part 101.115
Electrical Specifications, Band 2	
Operating Frequency Band	21.200 – 23.600 GHz
Gain, Low Band	39.3 dBi
Gain, Mid Band	39.4 dBi
Gain, Top Band	39.5 dBi
Beamwidth, Horizontal	1.5 °
Beamwidth, Vertical	1.5 °
Boresite Cross Polarization Discrimination (XPD)	30 dB
Boresite Cross Polarization Discrimination (XPD) Note	30 dB typical and subject to change without notice
Electrical Compliance	Canada SRSP 321.8 B ETSI 302 217 Class 3 FCC Cat A
Front-to-Back Ratio	66 dB
Radiation Pattern Envelope Reference (RPE)	7441
Return Loss	15 dB
VSWR	1.43
Mechanical Specifications	
Compatible Mounting Pipe Diameter	50 mm-115 mm 2.0 in-4.5 in
Fine Azimuth Adjustment Range	±9°
Fine Elevation Adjustment Range	±15°
Wind Speed at 23 GHz, operational	180 km/h 111.847 mph
Wind Speed at 80 GHz, operational	144 km/h 89.477 mph
Wind Speed, survival	250 km/h 155.343 mph

Antenna Dimensions and Mounting Information

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Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	1693 N 380.602 lbf		
Side Force (FS)	814 N 182.995 lbf		
Twisting Moment (MT)	756 N-m 6,691.164 in lb		
Zcg without Ice	9 mm 0.354 in		
Packaging and Weights			
Height, packed	600 mm 23.622 in		
Width, packed	740 mm 29.134 in		
Length, packed	740 mm 29.134 in		
Packaging Type	Standard pack		
Volume	0.3 m³ 10.594 ft³		
Weight, gross	23 kg 50.706 lb		
Weight, net	17 kg 37.479 lb		

Regulatory Compliance/Certifications

Agency

Classification

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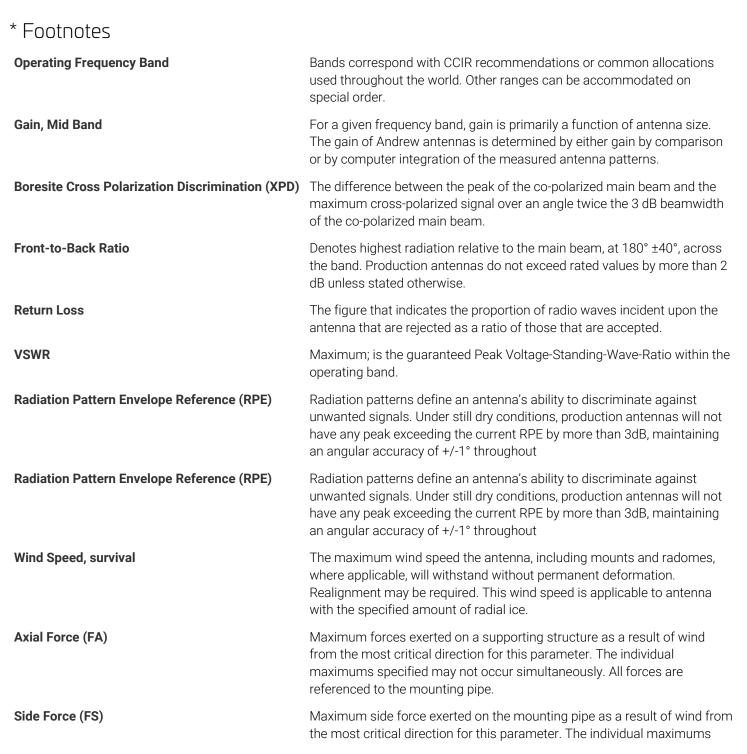
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ISO 9001:2015

9001-2015

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



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	specified may not occur simultaneously. All forces are referenced to the mounting pipe.
Twisting Moment (MT)	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.
Packaging Type	Andrew standard packing is suitable for export. Antennas are shipped as standard in totally recyclable cardboard or wire-bound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing options.

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