VHLP2-8023

苏州启道电子 - 康普安德鲁授权代理商



0.6 m | 2 ft ValuLine® High Performance Low Profile Antenna, dual band, single polarised 71.000 – 86.000 GHz

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
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
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 Page 1 of

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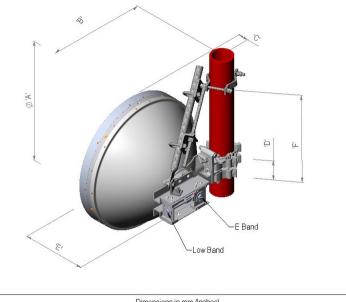
Electrical Compliance	ETSI 302 217 Class 3 US FCC Part 101.115		
Electrical Specifications, Band 2			
Operating Frequency Band	21.200 – 23.600 GHz		
Gain, Low Band	39.3 dBi		
Gain, Mid Band	39.4 dBi		
Gain, Top Band	39.5 dBi		
Beamwidth, Horizontal	1.5°		
Beamwidth, Vertical	1.5°		
Boresite Cross Polarization 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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		Dir	mensions in mm (Inch	es)		
Antenna Size, ft (m)	A	В	C	D	E	F
2 (0.6)	660 (25.9)	309 (12.2)	279 (10.9)	106 (4.2)	459 (18.1)	505 (19.8)

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	
Weight, net	17 kg 37.479 lb
* Footnotes	
Operating Frequency Band	Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.
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

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VHLP2-8023 苏州启道电子 - 康普安德鲁授权代理商 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. The figure that indicates the proportion of radio waves incident upon the **Return Loss** 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 **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 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 parameter. The individual maximums 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.

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