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VHLP2-23-2WH/B

0.6 m | 2 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 21.200–23.600 GHz, PBR220, white antenna, polymer white radome without flash, compact pack—one-piece reflector

General Specifications

Antenna Type VHLP - ValuLine® High Performance Low Profile Antenna, single-polarized

Diameter, nominal 0.6 m | 2 ft
Packing Compact pack

Radome Color White
Radome Material Polymer

Reflector Construction One-piece reflector

Antenna Input PBR220
Antenna Color White

Antenna Type VHLP - ValuLine® High Performance Low Profile Antenna, single-polarized

Diameter, nominal 0.6 m | 2 ft

Flash Included No Polarization Single

Electrical Specifications

Operating Frequency Band 21.200 – 23.600 GHz

Beamwidth, Horizontal 1.7 °
Beamwidth, Vertical 1.7 °
Cross Polarization Discrimination (XPD) 30 dB

Electrical Compliance Brazil Anatel Class 2 | Canada SRSP 321.8 Part A | ETSI 302 217 Class

3 | US FCC Part 101A

Front-to-Back Ratio 65 dB
Gain, Low Band 40.0 dBi
Gain, Mid Band 40.5 dBi
Gain, Top Band 41.0 dBi

Operating Frequency Band 21.200 – 23.600 GHz

Radiation Pattern Envelope Reference (RPE) 7205B
Return Loss 17.7 dB
VSWR 1.30

Mechanical Specifications

Fine Azimuth Adjustment ±15°
Fine Elevation Adjustment ±15°

Mounting Pipe Diameter 48 mm-115 mm | 1.9 in-4.5 in

Net Weight 11 kg | 25 lb



VHLP2-23-2WH/B

0

Side Struts, Included Side Struts, Optional 0

Wind Velocity Operational 200 km/h | 124 mph Wind Velocity Survival Rating 250 km/h | 155 mph

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Wind Forces At Wind Velocity Survival Rating

Axial Force (FA) 1272 N | 286 lbf Side Force (FS) 630 N | 142 lbf

Twisting Moment (MT) 473 N•m Weight with 1/2 in (12 mm) Radial Ice 17 kg | 37 lb Zcg with 1/2 in (12 mm) Radial Ice

162 mm | 6 in Zcg without Ice 157 mm | 6 in

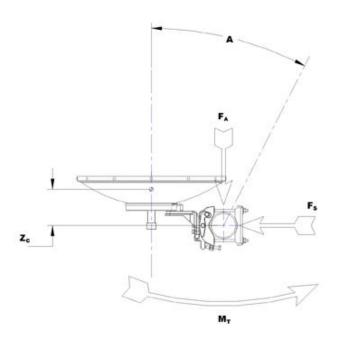


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Wind Forces At Wind Velocity Survival Rating Image



Packed Dimensions

Gross Weight, Packed Antenna	16.0 kg 35.3 lb
Height	330.0 mm 13.0 in
Length	706.0 mm 27.8 in
Volume	0.2 m ³
Width	798.0 mm 31.4 in

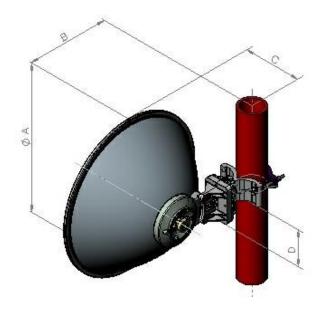


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Antenna Dimensions And Mounting Information



Dimensions in Inches (mm)				
Antenna Size, ft (m)	Α	В	С	D
2(0.6)	25.9 (658)	14.6 (372)	10.2 (259)	6.4 (162)

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2008 Designed, manufactured and/or distributed under this quality management system

* Footnotes

roomores	
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.
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 $180^{\circ} \pm 40^{\circ}$, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise.
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.
Operating Frequency Band	Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.
Packing	Andrew standard packing is suitable for export. Antennas are shipped as



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standard in totally recyclable cardboard or wire-bound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing options.

Radiation Pattern Envelope Reference (RPE) Radiation patterns determine an antenna's ability to discriminate against unwanted signals under conditions of radio congestion. Radiation patterns are dependent on antenna series, size, and frequency.

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.

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.

VSWR

Maximum; is the guaranteed Peak Voltage-Standing-Wave-Ratio within the

Wind Velocity Operational

The wind speed where the antenna deflection is equal to or less than 0.1 degrees. In the case of ValuLine antennas, it is defined as a maximum deflection of 0.3 x the 3 dB beam width of the antenna.

Wind Velocity Survival Rating

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.

operating band.