## VHLP6-6W-4WH/B



## Product Classification

## Product Type

Product Brand

## General Specifications

## Antenna Type

## Polarization

Antenna Input
Antenna Color
Reflector Construction
Radome Color
Radome Material
Flash Included
Side Struts, Included
Side Struts, Optional
Dimensions
Diameter, nominal
1.8 m | 6 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 5.925-7.125 GHz, PDR70, white antenna, flexible woven polymer gray radome without flash, standard pack-onepiece reflector

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## Antenna Dimensions and Mounting Information



| Dimensions in inches (mm) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Antenna size, ft <br> $(\mathrm{m})$ | A | B | C | D | E | F |
| 6 | 74.8 <br> $(1899)$ | 13.4 | 47.5 | 22.4 | 39.4 | 6.9 <br> $(340)$ |
| $(1206)$ | $(570)$ | $(1001)$ | $(174)$ |  |  |  |

## Electrical Specifications

Operating Frequency Band
Gain, Low Band
Gain, Mid Band
Gain, Top Band
Boresite Cross Polarization Discrimination (XPD)
Front-to-Back Ratio
Beamwidth, Horizontal
Beamwidth, Vertical
Return Loss
$5.925-7.125 \mathrm{GHz}$
38.5 dBi
39.3 dBi
40.1 dBi

30 dB
66 dB$1.8^{\circ}$$1.8^{\circ}$

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## VSWR <br> 1.3

Radiation Pattern Envelope Reference (RPE)
Electrical Compliance

## Mechanical Specifications

Compatible Mounting Pipe Diameter
Fine Azimuth Adjustment Range
Fine Elevation Adjustment Range
Wind Speed, operational
Wind Speed, survival
$115 \mathrm{~mm}-120 \mathrm{~mm}$ | $4.5 \mathrm{in}-4.7 \mathrm{in}$
7138B
Brazil Anatel Class 3 | Canada SRSP 305.9 Part B | Canada SRSP 306.4 Part A | ETSI 302217 Class 3 | US FCC Part 101A$\pm 15^{\circ}$$\pm 5^{\circ}$

180 km/h | 111.847 mph
250 km/h | 155.343 mph

## Wind Forces at Wind Velocity Survival Rating

## Axial Force (FA)

Angle a for MT Max
Side Force (FS)
Twisting Moment (MT)
Zcg without Ice
Zcg with $\mathbf{1 / 2}$ in ( 12 mm ) Radial Ice
Weight with $1 / 2$ in ( 12 mm ) Radial Ice
$10670 \mathrm{~N} \mid 2,398.712 \mathrm{lbf}$
$-120^{\circ}$
$5286 \mathrm{~N} \mid 1,188.34 \mathrm{lbf}$
4752 N-m | 42,058.742 in lb
363 mm | 14.291 in
543 mm | 21.378 in
$234 \mathrm{~kg} \mid 515.881 \mathrm{lb}$

## VHLP6-6W-4WH/B

Wind Forces at Wind Velocity Survival Rating Image


## Packaging and Weights

| Height, packed | $2110 \mathrm{~mm} \mathrm{\mid} 83.071 \mathrm{in}$ |
| :--- | :--- |
| Width, packed | $450 \mathrm{~mm} \mid 17.717 \mathrm{in}$ |
| Length, packed | $1900 \mathrm{~mm} \mathrm{\mid} 74.803 \mathrm{in}$ |
| Packaging Type | Standard pack |
| Volume | $1.8 \mathrm{~m}^{3} \mid 63.566 \mathrm{ft}^{3}$ |
| Weight, gross | $127 \mathrm{~kg} \mathrm{\mid} 279.987 \mathrm{lb}$ |
| Weight, net | $86 \mathrm{~kg} \mathrm{\mid} 189.597 \mathrm{lb}$ |

Regulatory Compliance/Certifications

## VHLP6-6W-4WH/B

## Agency

ISO 9001:2015
REACH-SVHC

* Footnotes


## Classification

Designed, manufactured and/or distributed under this quality management system
Compliant as per SVHC revision on www.commscope.com/ProductCompliance

## Axial Force (FA)

Boresite Cross Polarization Discrimination (XPD)

## Front-to-Back Ratio

## Gain, Mid Band

Operating Frequency Band

## Packaging Type

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.

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.

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.

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.

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

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.

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 $+/-1^{\circ}$ throughout

The figure that indicates the proportion of radio waves incident upon the antenna that are rejected as a ratio of those that are accepted.

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.

Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual

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## VSWR

## Wind Speed, operational

## Wind Speed, survival

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

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

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.

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.

