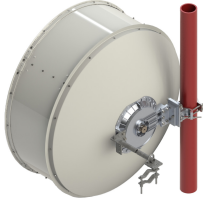


VHLP4-18-2WH/C



1.2 m | 4 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 17.700–19.700 GHz, PBR220, white antenna, flexible woven polymer gray radome without flash, standard pack—one-piece reflector

OBSOLETE

This product was discontinued on: May 1, 2022

Replaced By:

VHLPX4-18-2WH/C 1.2 m | 4 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 17.700–19.700 GHz, PBR220, white antenna, flexible woven polymer gray radome without flash, standard pack—one-piece reflector

Product Classification

| | |
|----------------------|-------------------|
| Product Type | Microwave antenna |
| Product Brand | ValuLine® |

General Specifications

| | |
|-------------------------------|---|
| Antenna Type | VHLP - ValuLine® High Performance Low Profile Antenna, single-polarized |
| Polarization | Single |
| Antenna Input | PBR220 |
| Antenna Color | White |
| Reflector Construction | One-piece reflector |
| Radome Color | Gray |
| Radome Material | Polymer |
| Flash Included | No |

Dimensions

| | |
|--------------------------|--------------|
| Diameter, nominal | 1.2 m 4 ft |
|--------------------------|--------------|

Electrical Specifications

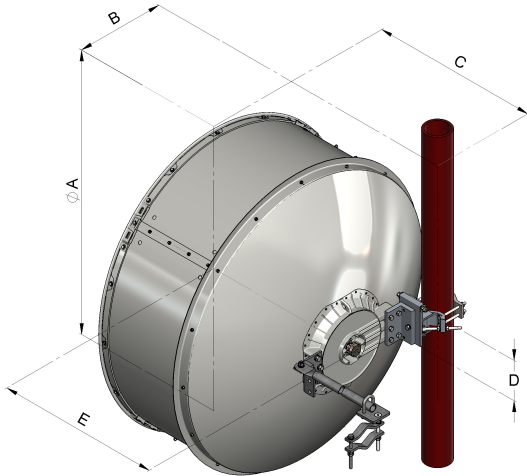
| | |
|---------------------------------|---------------------|
| Operating Frequency Band | 17.700 – 19.700 GHz |
| Gain, Low Band | 44.4 dBi |

VHLP4-18-2WH/C

| | |
|---|---|
| Gain, Mid Band | 44.7 dBi |
| Gain, Top Band | 44.9 dBi |
| Boresite Cross Polarization Discrimination (XPD) | 30 dB |
| Front-to-Back Ratio | 73 dB |
| Beamwidth, Horizontal | 0.9 ° |
| Beamwidth, Vertical | 0.9 ° |
| Return Loss | 17.7 dB |
| VSWR | 1.3 |
| Radiation Pattern Envelope Reference (RPE) | 7061C |
| Electrical Compliance | Brazil Anatel Class 2 Canada SRSP 317.8 Part A ETSI 302 217 Class 3 US FCC Part 101A |

VHLP4-18-2WH/C

Antenna Dimensions and Mounting Information



| Dimensions in inches (mm) | | | | | |
|---------------------------|-------------|----------|------------|-----------|------------|
| Antenna size, ft (m) | A | B | C | D | E |
| 4 (1.2) | 50.8 (1291) | 16 (407) | 30.2 (767) | 7.2 (183) | 29.5 (748) |

Wind Forces at Wind Velocity Survival Rating

| | |
|--|-----------------------------|
| Axial Force (FA) | 5326 N 1,197.333 lbf |
| Side Force (FS) | 2638 N 593.046 lbf |
| Twisting Moment (MT) | 2162 N-m 19,135.312 in lb |
| Force on Inboard Strut Side | 2862 N 643.403 lbf |
| Zcg without Ice | 43 mm 1.693 in |
| Zcg with 1/2 in (12 mm) Radial Ice | 284 mm 11.181 in |
| Weight with 1/2 in (12 mm) Radial Ice | 74 kg 163.142 lb |

VHLP4-18-2WH/C

Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

| | |
|-----------------------|---|
| Height, packed | 1520 mm 59.843 in |
| Width, packed | 380 mm 14.961 in |
| Length, packed | 1360 mm 53.543 in |
| Packaging Type | Standard pack |
| Volume | 0.8 m ³ 28.252 ft ³ |
| Weight, gross | 59 kg 130.073 lb |
| Weight, net | 32 kg 70.548 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

VHLP4-18-2WH/C



* 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 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. |
| 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 $\pm 1^\circ$ throughout |
| 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. |
| 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 |

VHLP4-18-2WH/C

packing options.