

0.6m | 2 ft ValuLine® High Performance Antenna, single polarized, 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, single-

polarized

**Polarization** Single

Side Struts, Included

Side Struts, Optional 0

**Dimensions** 

**Diameter, nominal** 0.6 m | 2 ft

**Electrical Specifications** 

**Operating Frequency Band** 71.000 – 86.000 GHz

Gain, Low Band50 dBiGain, Mid Band50.8 dBiGain, Top Band51.5 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio70 dB

Beamwidth, Horizontal 0.5 °

**Beamwidth, Vertical** 0.5 ° **Return Loss** 14 dB

**VSWR** 1.5

Radiation Pattern Envelope Reference (RPE) 7288B

Electrical Compliance Brazil Anatel Class 3 | Canada SRSP 371.0 Part A | ETSI 302 217

Class 3 | US FCC Part 101A

Page 1 of 4



180 km/h | 111.847 mph

### Mechanical Specifications

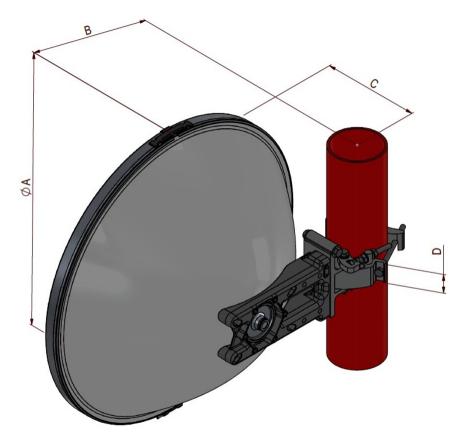
**Compatible Mounting Pipe Diameter** 48 mm-120 mm | 1.9 in-4.7 in

Fine Azimuth Adjustment Range ±15°

Fine Elevation Adjustment Range ±15°
Wind Speed, operational 180 km/h

Wind Speed, survival 252 km/h | 156.585 mph

### Antenna Dimensions and Mounting Information



| Dimensions in Inches (mm) |            |            |           |          |
|---------------------------|------------|------------|-----------|----------|
| Antenna Size, ft (m)      | Α          | В          | С         | D        |
| 2 (0.6)                   | 25.9 (660) | 12.2 (310) | 8.9 (228) | 1.8 (45) |

#### Wind Forces at Wind Velocity Survival Rating

**Axial Force (FA)** 1400 N | 314.733 lbf

**COMMSCOPE®** 

# VHLP2-80/B

### 苏州启道电子 - 康普安德鲁授权代理商

Angle a for MT Max  $-50\,^{\circ}$ 

**Side Force (FS)** -350 N | -78.683 lbf

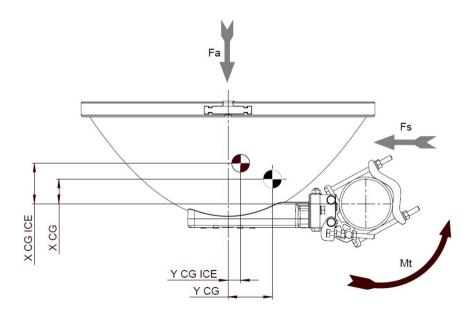
Twisting Moment (MT) 500 N-m | 4,425.373 in lb

 Zcg without Ice
 55 mm | 2.165 in

 Zcg with 1 in (25 mm) Radial Ice
 91 mm | 3.583 in

 Weight with 1 in (25 mm) Radial Ice
 20 kg | 44.092 lb

### Wind Forces at Wind Velocity Survival Rating Image



#### Packaging and Weights

**Weight, net** 5.75 kg | 12.677 lb

#### Regulatory Compliance/Certifications

#### Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



\* Footnotes

**Operating Frequency Band** 

Bands correspond with CCIR recommendations or common allocations





# VHLP2-80/B

# 苏州启道电子 - 康普安德鲁授权代理商

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° ±40°, 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 +/-1° throughout

Wind Speed, operational 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.

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.

©2022 CommScope, Inc. All rights reserved. All trademarks identified by ® or \*\* are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: January 25, 2022