苏州启道电子 - 康普安德鲁授权代理商



0.2 m | 0.67 ft ValuLine® High Performance Low Profile 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

Dimensions

Diameter, nominal 0.2 m | 0.67 ft

Electrical Specifications

Operating Frequency Band 71.000 – 86.000 GHz

Gain, Low Band40.6 dBiGain, Mid Band41 dBiGain, Top Band41.4 dBiBoresite Cross Polarization Discrimination (XPD)27 dB

Front-to-Back Ratio 58 dB

Beamwidth, Horizontal 1.4 °

Beamwidth, Vertical 1.4 °

Return Loss 14 dB

VSWR 1.5

Radiation Pattern Envelope Reference (RPE) 7313

Page 1 of 5



VHLP200-80

苏州启道电子 - 康普安德鲁授权代理商

Electrical Compliance ETSI 302 217 Class 3

Mechanical Specifications

Compatible Mounting Pipe Diameter 51 mm – 115 mm | 2.0 in – 4.5 in

Fine Azimuth Adjustment Range ±15°

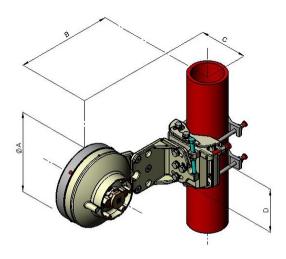
Fine Elevation Adjustment Range ±15°

Wind Speed, operational 180 km/h | 111.847 mph

Wind Speed, survival 250 km/h | 155.343 mph



Antenna Dimensions and Mounting Information



Dimensions in Inches (mm)				
Antenna Size, m	Α	В	С	D
0.2	9.0 (230)	14.2 (360)	4.6 (118)	6.0 (150)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA) 200 N | 44.962 lbf

Side Force (FS) 90 N | 20.233 lbf

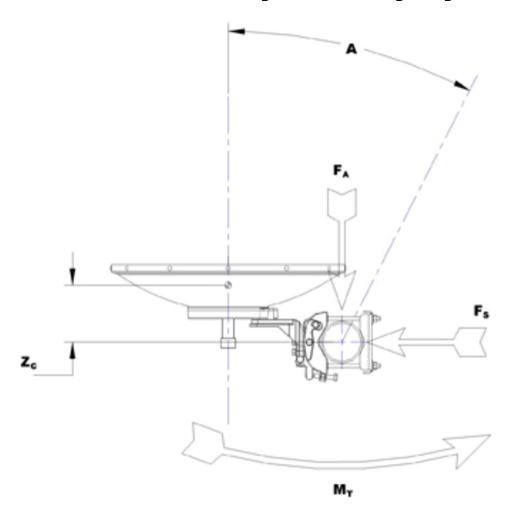
Twisting Moment (MT) 70 N-m | 619.552 in lb

Zcg without Ice 50 mm | 1.969 in

Zcg with 1/2 in (12 mm) Radial Ice 100 mm | 3.937 in

Weight with 1/2 in (12 mm) Radial Ice 13 kg | 28.66 lb

Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Weight, net 5 kg | 11.023 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

Page 4 of 5

VHLP200-80

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 LossThe 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.

Page 5 of 5

