

0.6m | 2 ft ValuLine® High Performance Antenna, dual polarized, 17.700 – 19.700 GHz

Product Classification

Product Type Microwave antenna

Product Brand ValuLine®

General Specifications

Antenna Type VHLPX - ValuLine® High Performance Low Profile Antenna, dual-

polarized

Polarization Dual

Side Struts, Included 0

Side Struts, Optional 0

Dimensions

Diameter, nominal 0.6 m | 2 ft

Electrical Specifications

Operating Frequency Band 17.700 – 19.700 GHz

Gain, Low Band38.6 dBiGain, Mid Band39 dBiGain, Top Band39.4 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio67 dB

Beamwidth, Horizontal 2.1 °
Beamwidth, Vertical 2.1 °

Return Loss 17.7 dB

VSWR 1.3

Radiation Pattern Envelope Reference (RPE) 7216D

Electrical Compliance ACMA FX03_18a | Brazil Anatel Class 3 | Canada SRSP 317.8

Part A | ETSI 302 217 Class 3 | US FCC Part 101A

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VHLPX2-18/D

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Mechanical Specifications

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

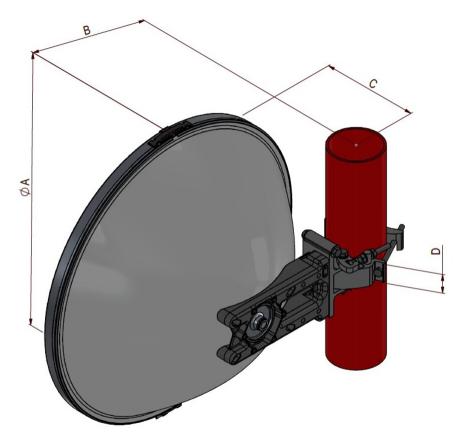
Fine Azimuth Adjustment Range ±15°

Fine Elevation Adjustment Range ±15°

 Wind Speed, operational
 180 km/h
 1 111.847 mph

 Wind Speed, survival
 252 km/h
 1 55.585 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

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

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

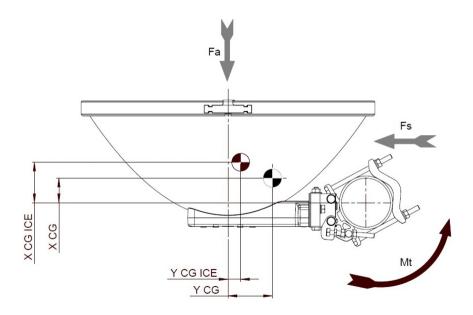
Twisting Moment (MT) 500 N-m | 4,425.373 in lb

 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





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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.

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