Base Product



0.3 m | 1 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 24.250–26.500 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 0

Side Struts, Optional 0

Dimensions

Diameter, nominal 0.3 m | 1 ft

Electrical Specifications

Operating Frequency Band 24.250 – 26.500 GHz

Gain, Low Band36.3 dBiGain, Mid Band36.9 dBiGain, Top Band37.5 dBiBoresite Cross Polarization Discrimination (XPD)30 dB

Front-to-Back Ratio 63 dB

Beamwidth, Horizontal 2.5 °

Beamwidth, Vertical 2.5 °

Return Loss 17.7 dB

VSWR 1.3

Radiation Pattern Envelope Reference (RPE) 7018C

Electrical ComplianceBrazil Anatel Class 2 | ETSI 302 217 Class 3

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Mechanical Specifications

Compatible Mounting Pipe Diameter 50 mm-120 mm | 2.0 in-4.7 in

±15° Fine Azimuth Adjustment Range

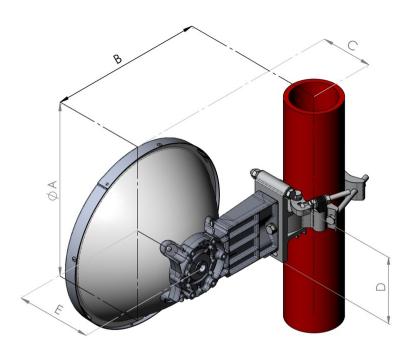
Fine Elevation Adjustment Range ±15°

Wind Speed, operational 201 km/h | 124.896 mph Wind Speed, survival

250 km/h | 155.343 mph



Antenna Dimensions and Mounting Information



Dimensions in inches (mm)					
Antenna size, ft (m)	Α	В	С	D	Е
1 (0.3)	15(382)	12.7(323)	6(151)	6.1(155)	7(177)

Wind Forces at Wind Velocity Survival Rating

 Axial Force (FA)
 446 N | 100.265 lbf

 Side Force (FS)
 198 N | 44.512 lbf

Twisting Moment (MT) 144 N-m | 1,274.507 in lb

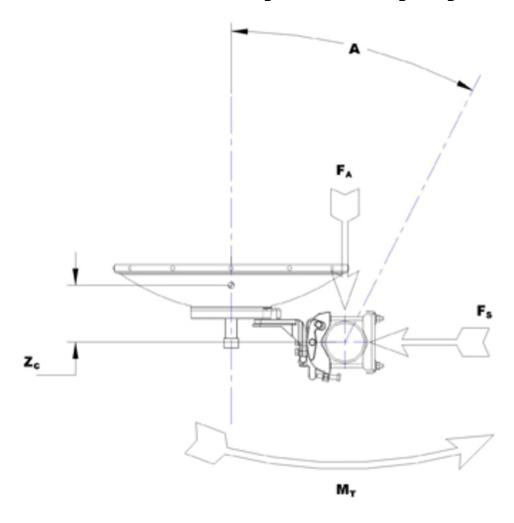
 Zcg without Ice
 28 mm | 1.102 in

 Zcg with 1/2 in (12 mm) Radial Ice
 54 mm | 2.126 in

 Weight with 1/2 in (12 mm) Radial Ice
 12 kg | 26.455 lb

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Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Weight, net 4.7 kg | 10.362 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 used throughout the world. Other ranges can be accommodated on special order.

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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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