

0.6 m | 2 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 31.000–33.400 GHz

Product Classification

Product Type Microwave antenna

Product Brand ValuLine®

General Specifications

Antenna Type VHLP - ValuLine® High Performance Low Profile Antenna, single-

polarized

1.1 °

Polarization Single

Side Struts, Included

Side Struts, Optional 0

Dimensions

Beamwidth, Vertical

Diameter, nominal 0.6 m | 2 ft

Electrical Specifications

Operating Frequency Band 31.000 – 33.400 GHz

Gain, Low Band43.3 dBiGain, Mid Band43.6 dBiGain, Top Band44.4 dBiBoresite Cross Polarization Discrimination (XPD)30 dB

Front-to-Back Ratio 63 dB

Beamwidth, Horizontal 1.1 °

Return Loss 17.7 dB

VSWR 1.3

Radiation Pattern Envelope Reference (RPE) 7208B

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Electrical Compliance Brazil Anatel Class 2 | ETSI 302 217 Class 3B

Mechanical Specifications

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

Fine Azimuth Adjustment Range ±15°

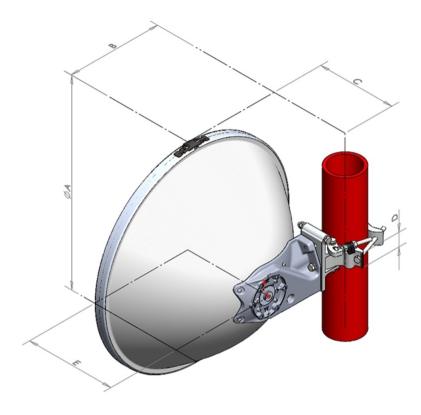
Fine Elevation Adjustment Range ±15°

Wind Speed, operational 180 km/h | 111.847 mph

Wind Speed, survival 250 km/h | 155.343 mph



Antenna Dimensions and Mounting Information



Dimension in Inches (mm)					
Antenna size, ft (m)	Α	В	С	D	E
2 (0.6)	26 (660)	11.9 (307)	9.9 (252)	1.8 (45)	11.4 (289)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA) 1290 N | 290.004 lbf

Side Force (FS) 639 N | 143.653 lbf

Twisting Moment (MT) 395 N-m | 3,496.045 in lb

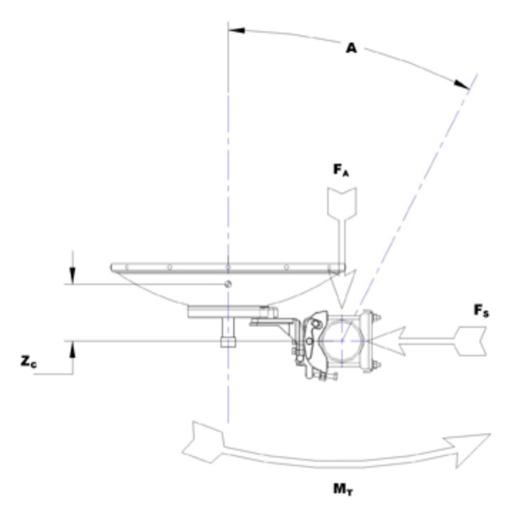
Zcg without Ice 74 mm | 2.913 in

Zcg with 1/2 in (12 mm) Radial Ice 106 mm | 4.173 in

Weight with 1/2 in (12 mm) Radial Ice 21 kg | 46.297 lb

COMMSCOPE®

Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Weight, net 8 kg | 17.637 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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