Base Product



0.2 m | 0.67 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 37.000–40.000 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 0.2 m | 0.67 ft

Electrical Specifications

Operating Frequency Band 37.000 – 40.000 GHz

Gain, Low Band37.3 dBiGain, Mid Band37.5 dBiGain, Top Band37.7 dBi

Boresite Cross Polarization Discrimination (XPD) 30 dB

Front-to-Back Ratio 62 dB

Beamwidth, Horizontal 2.3 °
Beamwidth, Vertical 2.3 °

Return Loss 17.7 dB

VSWR 1.3

Radiation Pattern Envelope Reference (RPE) 7142A

Electrical Compliance ETSI 302 217 Class 3



Page 1 of 5

Mechanical Specifications

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

Fine Azimuth Adjustment Range ±15°

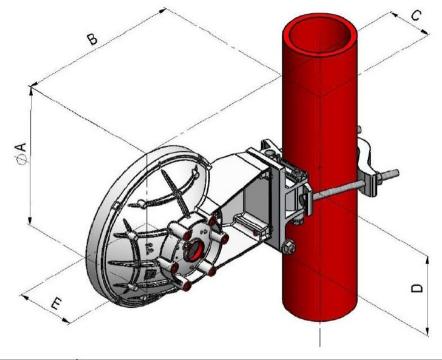
Fine Elevation Adjustment Range ±15°

 Wind Speed, operational
 201 km/h | 124.896 mph

 Wind Speed, survival
 250 km/h | 155.343 mph

Antenna Dimensions and Mounting Information

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	ANTENNA DIMENSIONS(mm)				
VHLP200	Α	В	С	D	E
	263	296	84	151	107

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA) 290 N | 65.195 lbf



Side Force (FS) 144 N | 32.372 lbf

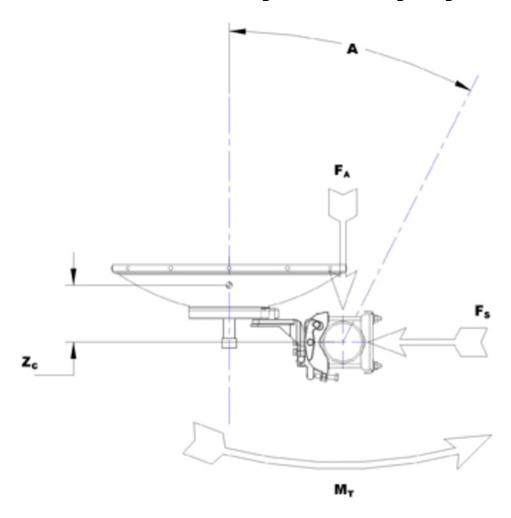
Twisting Moment (MT) 86 N-m | 761.164 in lb

Zcg without Ice 11 mm | 0.433 in

Zcg with 1 in (25 mm) Radial Ice 18 mm | 0.709 in

Weight with 1 in (25 mm) Radial Ice 7 kg + 15.432 lb

Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Weight, gross 5 kg | 11.023 lb

* Footnotes

Operating Frequency Band Bands correspond with CCIR recommendations or common allocations

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.

The difference between the peak of the co-polarized main beam and the **Boresite Cross Polarization Discrimination (XPD)**

maximum cross-polarized signal over an angle twice the 3 dB beamwidth



of the co-polarized main beam.

Front-to-Back RatioDenotes 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.