

VHLPX6-10W/B

Base Product



1.8 m | 6 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 10.000–10.700 GHz

OBsolete

This product was discontinued on: February 1, 2019

Replaced By:

VHLPX6-11W/A 1.8 m | 6 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 10.000–11.700 GHz

Product Classification

Product Type	Microwave antenna
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General Specifications

Antenna Type	VHLPX - ValuLine® High Performance Low Profile Antenna, dual-polarized
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Polarization	Dual
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Side Struts, Included	1 inboard
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Side Struts, Optional	1 inboard
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Dimensions

Diameter, nominal	1.8 m 6 ft
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Electrical Specifications

Operating Frequency Band	10.000 – 10.700 GHz
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Gain, Low Band	43 dBi
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Gain, Mid Band	43.1 dBi
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Gain, Top Band	43.3 dBi
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Boresite Cross Polarization Discrimination (XPD)	30 dB
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Front-to-Back Ratio	69 dB
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Beamwidth, Horizontal	1.2 °
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Beamwidth, Vertical	1.2 °
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VHLPX6-10W/B

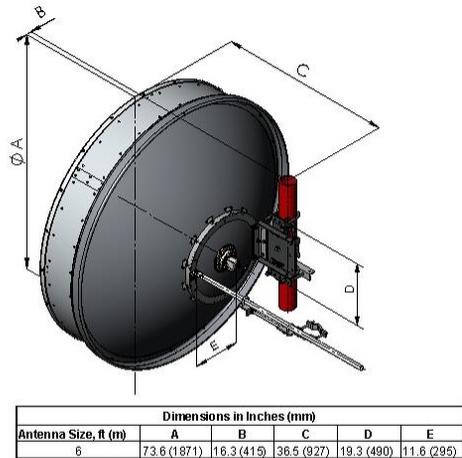
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7098B
Electrical Compliance	Brazil Anatel Class 2 Canada SRSP 310.5 ETSI 302 217 Class 3 US FCC Part 101A

Mechanical Specifications

Compatible Mounting Pipe Diameter	115 mm 4.5 in
Fine Azimuth Adjustment Range	±20°
Fine Elevation Adjustment Range	±15°
Wind Speed, operational	180 km/h 111.847 mph
Wind Speed, survival	200 km/h 124.274 mph

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Antenna Dimensions and Mounting Information



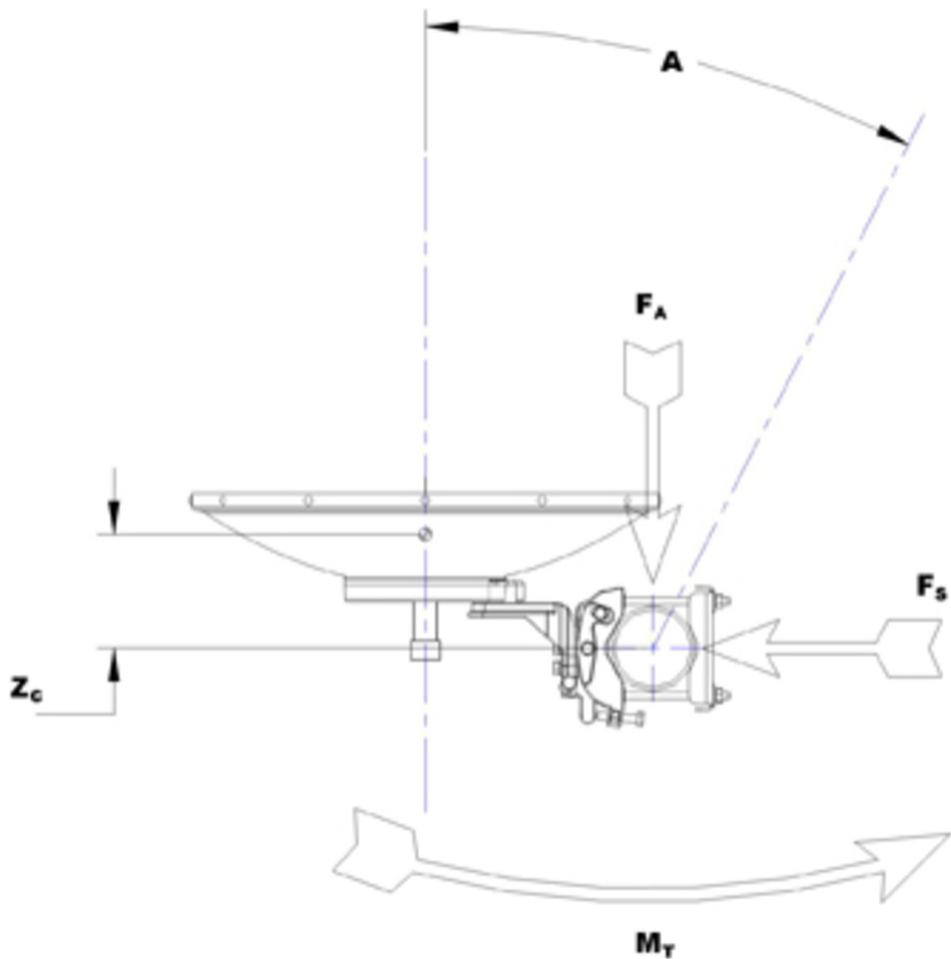
Dimensions in Inches (mm)					
Antenna Size, ft (m)	A	B	C	D	E
6	73.6 (1871)	16.3 (415)	36.5 (927)	19.3 (490)	11.6 (295)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	7128 N 1,602.439 lbf
Side Force (FS)	3531 N 793.801 lbf
Twisting Moment (MT)	3197 N-m 28,295.834 in lb
Zcg without Ice	425 mm 16.732 in
Zcg with 1/2 in (12 mm) Radial Ice	450 mm 17.717 in
Weight with 1/2 in (12 mm) Radial Ice	205 kg 451.947 lb

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Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Weight, net

95 kg | 209.439 lb

Regulatory Compliance/Certifications

Agency

ISO 9001:2015

Classification

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 $180^\circ \pm 40^\circ$, across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise.

Return Loss

The 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 $\pm 1^\circ$ throughout

Wind Speed, operational

For VHLP(X), SHP(X), HX and USX antennas, the wind speed where the maximum antenna deflection is $0.3 \times$ 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.