



VHLP4-11W-6WH/A

1.2 m | 4 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 10.125–11.700 GHz, CPR90G, white antenna, flexible woven polymer gray radome without flash, standard pack—one-piece reflector

Product Classification

Brand ValuLine®

Product Type Microwave antenna

General Specifications

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

Diameter, nominal 1.2 m | 4 ft
Packing Standard pack

Radome Color Gray
Radome Material Polymer

Reflector Construction One-piece reflector

Antenna Input CPR90G
Antenna Color White

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

Diameter, nominal 1.2 m | 4 ft

Flash Included No Polarization Single

Electrical Specifications

Operating Frequency Band 10.125 – 11.700 GHz

Beamwidth, Horizontal 1.6 °
Beamwidth, Vertical 1.6 °
Cross Polarization Discrimination (XPD) 30 dB

Electrical Compliance Brazil Anatel Class 2 | Canada SRSP 310.5 | Canada SRSP 310.7 Part

B | ETSI 302 217 Class 3 | US FCC Part 101A @ 10.55-10.7 GHz | US

FCC Part 101A @ 10.7-11.7 GHz | US FCC Part 101B @ 10.125-11.7 GHz

Front-to-Back Ratio 66 dB
Gain, Low Band 40.2 dBi
Gain, Mid Band 40.7 dBi
Gain, Top Band 41.0 dBi

Operating Frequency Band 10.125 – 11.700 GHz

Radiation Pattern Envelope Reference (RPE) 7182A
Return Loss 17.7 dB
VSWR 1.30

Mechanical Specifications

Fine Azimuth Adjustment ±15°
Fine Elevation Adjustment ±15°

Mounting Pipe Diameter 115 mm | 4.5 in Net Weight 32 kg | 71 lb



VHLP4-11W-6WH/A

Side Struts, Included 1 inboard
Side Struts, Optional 1 inboard

Wind Velocity Operational 200 km/h | 124 mph Wind Velocity Survival Rating 250 km/h | 155 mph

Wind Forces At Wind Velocity Survival Rating

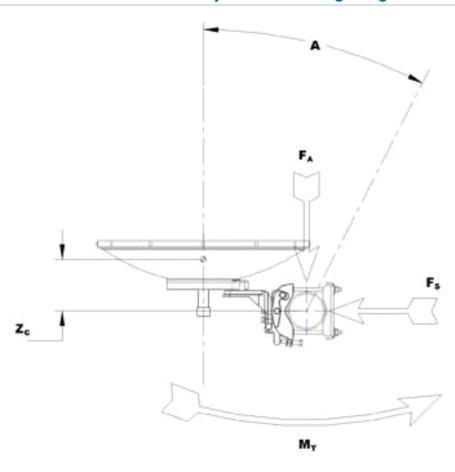
Axial Force (FA) 5326 N | 1197 lbf Force on Inboard Strut Side 2862 N | 643 lbf Side Force (FS) 2638 N | 593 lbf

Twisting Moment (MT) 2162 N \bullet m Weight with 1/2 in (12 mm) Radial Ice 74 kg | 163 lb Zcg with 1/2 in (12 mm) Radial Ice 284 mm | 11 in Zcg without Ice 43 mm | 2 in



VHLP4-11W-6WH/A

Wind Forces At Wind Velocity Survival Rating Image



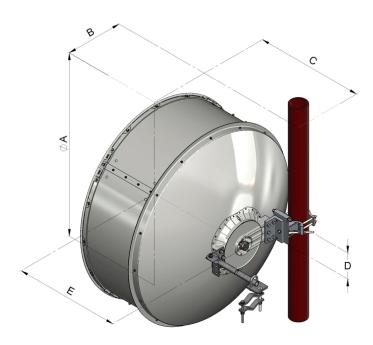
Packed Dimensions

Gross Weight, Packed Antenna	59.0 kg 130.1 lb
Height	1520.0 mm 59.8 in
Length	1360.0 mm 53.5 in
Volume	$0.8 \; m^3$
Width	380.0 mm 15.0 in



VHLP4-11W-6WH/A

Antenna Dimensions And Mounting Information



Dimensions in inches (mm)					
Antenna size, ft (m)	Α	В	С	D	E
4 (1.2)	50.8 (1291)	16 (407)	30.2 (767)	7.2 (183)	29.5 (748)

* Footnotes

roomoles	
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.
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.
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.
Operating Frequency Band	Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.
Packing	Andrew standard packing is suitable for export. Antennas are shipped as standard in totally recyclable cardboard or wire-bound crates (dependent on



VHLP4-11W-6WH/A

product). For your convenience, Andrew offers heavy duty export packing ontions

options.

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

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.

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.

VSWR Maximum; is the guaranteed Peak Voltage-Standing-Wave-Ratio within the

operating band.

Wind Velocity Operational The wind speed where the antenna deflection is equal to or less than 0.1

degrees. In the case of ValuLine antennas, it is defined as a maximum

deflection of 0.3 x the 3 dB beam width of the antenna.

Wind Velocity Survival Rating 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.