# VHLP3-11W-6-QD/A



0.9m | 3 ft ValuLine® High Performance Low Profile Antenna, singlepolarized, 10.125–11.700 GHz, CPR90G flange, white antenna, composite broadband gray radome without flash, fully assembled/Quick Deploy pack—one-piece reflector

#### Product Classification

Product Type	Microwave antenna
Product Brand	ValuLine®

#### General Specifications

Antenna Type	VHLP - ValuLine® High Performance Low Profile Antenna, single-polarized
Antenna Input	CPR90G
Antenna Color	White
Reflector Construction	One-piece reflector
Radome Color	Gray
Radome Material	Composite Broadband
Flash Included	No
<b>D</b>	

#### Dimensions

0.9 m   3 ft

#### **Electrical Specifications**

**Operating Frequency Band** 10.125 – 11.700 GHz

#### Packaging and Weights

Height, packed	1215 mm   47.835 in
Width, packed	698 mm   27.48 in
Length, packed	1162 mm   45.748 in
Packaging Type	Wooden crate
Volume	1 m³   35.315 ft³

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# VHLP3-11W-6-QD/A

58 kg | 127.868 lb

Weight, gross

Weight, net	17 kg   37.479 lb
Regulatory Compl	ance/Certifications
Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
Included Products	0.0m 1.2 ft Volul inco Llick Derformance Law Drafile Antonno aingle polarized 10.125, 11.700
VHLP3-11W/A	<ul> <li>0.9m   3 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 10.125–11.700</li> <li>GHz</li> </ul>
* Footnotes	
Operating Frequency Ban	<b>d</b> Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.
Packaging Type	Andrew standard packing is suitable for export. Antennas are shipped as standard in totally recyclable cardboard or wire-bound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing options.

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Product Classification

0.9m | 3 ft ValuLine® High Performance Low Profile Antenna, singlepolarized, 10.125–11.700 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	1 inboard
Dimensions	
Diameter, nominal	0.9 m   3 ft
Electrical Specifications	
Operating Frequency Band	10.125 – 11.700 GHz
Gain, Low Band	37.8 dBi
Gain, Mid Band	38.4 dBi
Gain, Top Band	39 dBi
Boresite Cross Polarization Discrimination (XPD)	30 dB
Front-to-Back Ratio	64 dB
Beamwidth, Horizontal	2°
Beamwidth, Vertical	2°
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7164A   7166A

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**Electrical Compliance** 

Brazil Anatel Class 2 | Canada SRSP 310.5 | 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

### Mechanical Specifications

Compatible Mounting Pipe Diameter	90 mm-120 mm   3.5 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	

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### Antenna Dimensions and Mounting Information



	Dimen	sion in Inche	es (mm)		
Antenna size, ft (m)	A	В	С	D	E
3 (1.0)	39.3 (999)	16 (407)	15.2 (387)	2.4 (60)	17.2 (437)

### Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)	2903 N   652.621 lbf
Angle a for MT Max	0 °
Side Force (FS)	1439 N   323.5 lbf
Twisting Moment (MT)	1179 N-m   10,435.029 in lb
Zcg without Ice	135 mm   5.315 in
Zcg with 1/2 in (12 mm) Radial Ice	84 mm   3.307 in
Weight with 1/2 in (12 mm) Radial Ice	46 kg   101.413 lb

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Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Weight, net

17 kg | 37.479 lb

### Regulatory Compliance/Certifications

Classification

#### Agency

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

#### **ISO** 9001:2015

### \* 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 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 +/-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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