# Product Specifications

## VHLPX6-11-2GR/A

**1.8 m | 6 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 10.700–11.700 GHz, PBR100, gray antenna, polymer gray radome without flash, standard pack—one-piece reflector**

**OBSOLETE**

**This product was discontinued on: July 1, 2016**

**Replaced By:**

| | |
|---|---|
| VHLPX6-11W-2WH/A | 1.8 m \| 6 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 10.000–11.700 GHz, PBR100, 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 | VHLPX - ValuLine® High Performance Low Profile Antenna, dual-polarized |
| Diameter, nominal | 1.8 m \| 6 ft |
| Packing | Standard pack |
| Radome Color | Gray |
| Radome Material | Polymer |
| Reflector Construction | One-piece reflector |
| Antenna Input | PBR100 |
| Antenna Color | Gray |
| Antenna Type | VHLPX - ValuLine® High Performance Low Profile Antenna, dual-polarized |
| Diameter, nominal | 1.8 m \| 6 ft |
| Flash Included | No |
| Polarization | Dual |

## Electrical Specifications

| | |
|---|---|
| Operating Frequency Band | 10.700 – 11.700 GHz |
| Beamwidth, Horizontal | 1.1 ° |
| Beamwidth, Vertical | 1.1 ° |
| Cross Polarization Discrimination (XPD) | 30 dB |
| Electrical Compliance | Brazil Anatel Class 2 \| Canada SRSP 310.7 Part B \| ETSI 302 217 Class 3 \| US FCC Part 101A |
| Front-to-Back Ratio | 70 dB |
| Gain, Low Band | 43.3 dBi |
| Gain, Mid Band | 43.8 dBi |
| Gain, Top Band | 44.4 dBi |

| | |
|---|---|
| Operating Frequency Band | 10.700 – 11.700 GHz |
| Radiation Pattern Envelope Reference (RPE) | 7046A |
| Return Loss | 17.7 dB |
| VSWR | 1.30 |

## Mechanical Specifications

| | |
|---|---|
| Fine Azimuth Adjustment | ±20° |
| Fine Elevation Adjustment | ±15° |
| Mounting Pipe Diameter | 115 mm \| 4.5 in |
| Net Weight | 95 kg \| 209 lb |
| Side Struts, Included | 1 inboard |
| Side Struts, Optional | 1 inboard |
| Wind Velocity Operational | 200 km/h \| 124 mph |
| Wind Velocity Survival Rating | 200 km/h \| 125 mph |

## Wind Forces At Wind Velocity Survival Rating

| | |
|---|---|
| Axial Force (FA) | 7128 N \| 1602 lbf |
| Side Force (FS) | 3531 N \| 794 lbf |
| Twisting Moment (MT) | 3197 N•m |
| Weight with 1/2 in (12 mm) Radial Ice | 205 kg \| 452 lb |
| Zcg with 1/2 in (12 mm) Radial Ice | 450 mm \| 18 in |
| Zcg without Ice | 425 mm \| 17 in |

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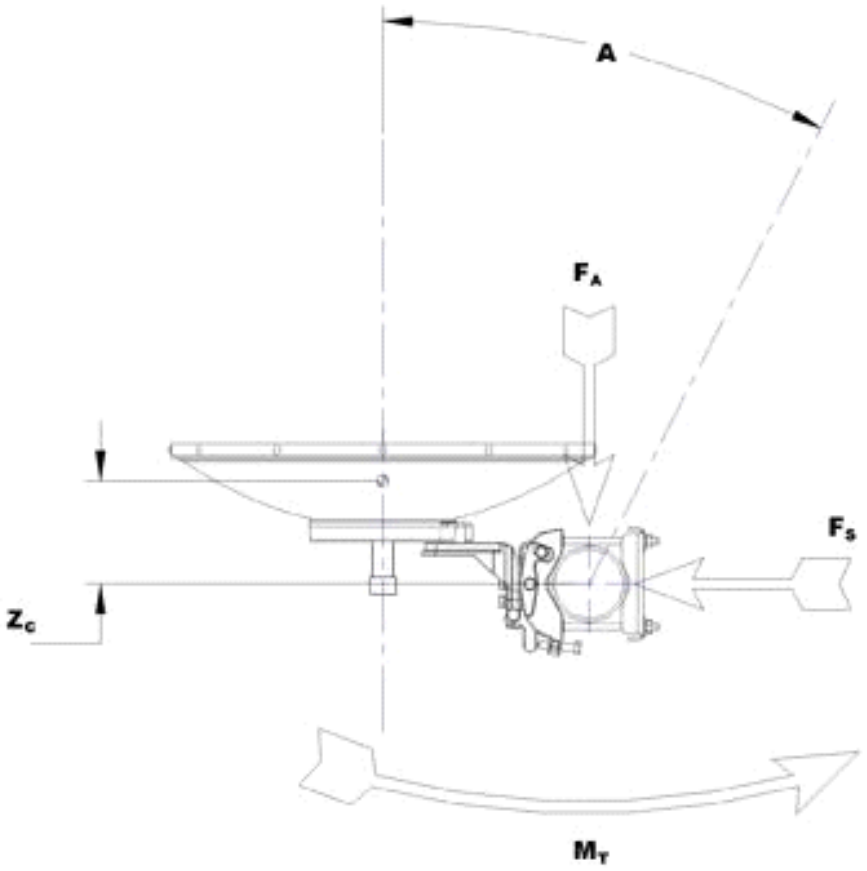
## Wind Forces At Wind Velocity Survival Rating Image




## Packed Dimensions

| | |
|---|---|
| Gross Weight, Packed Antenna | 130.0 kg \| 286.6 lb |
| Height | 214.0 cm \| 84.3 in |
| Length | 205.0 cm \| 80.7 in |
| Volume | 2.9 m³ |
| Width | 66.0 cm \| 26.0 in |

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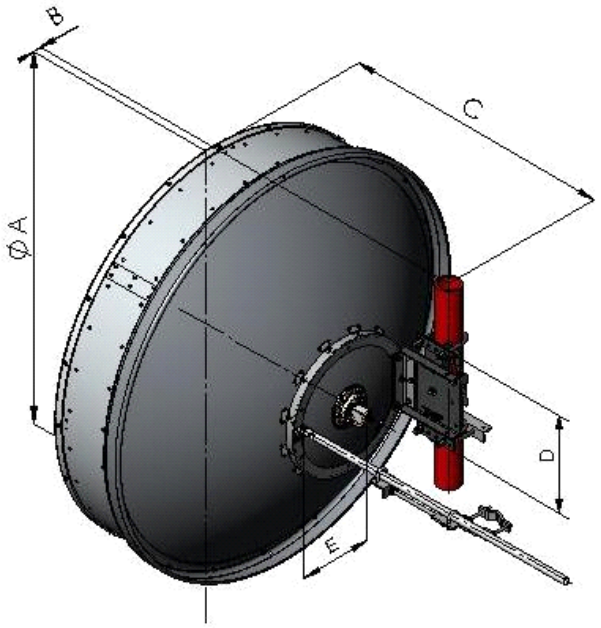
## Antenna Dimensions And Mounting Information




| 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) |

## Regulatory Compliance/Certifications

| Agency | Classification |
|---|---|
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |

## * Footnotes

| | |
|---|---|
| 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° ±40°, 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 |

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|---|---|
| | standard in totally recyclable cardboard or wire-bound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing 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. |