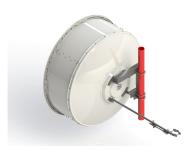
VHI P6-23-2WH/B



1.8 m | 6 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 21.200–23.600 GHz, PBR220, 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, nominal1.8 m | 6 ftPackingStandard pack

Radome ColorGrayRadome MaterialPolymer

Reflector Construction One-piece reflector

Antenna Input PBR220
Antenna Color White

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

Diameter, nominal 1.8 m | 6 ft

Flash Included No Polarization Single

Electrical Specifications

Operating Frequency Band 21.200 – 23.600 GHz

Beamwidth, Horizontal0.5 °Beamwidth, Vertical0.5 °Cross Polarization Discrimination (XPD)30 dB

Electrical Compliance Brazil Anatel Class 3 | Canada SRSP 321.8 Part A | ETSI 302 217 Class 3 | US

FCC Part 101A

Front-to-Back Ratio 62 dB
Gain, Low Band 48.7 dBi
Gain, Mid Band 49.2 dBi
Gain, Top Band 49.7 dBi

Operating Frequency Band 21.200 – 23.600 GHz

Radiation Pattern Envelope Reference (RPE) 7069B **Return Loss** 17.7 dB

page 1 of 5 November 10, 2018



VHLP6-23-2WH/B

VSWR 1.30

Mechanical Specifications

Fine Azimuth Adjustment ±15°
Fine Elevation Adjustment ±5°

Mounting Pipe Diameter 115 mm-120 mm | 4.5 in-4.7 in

Net Weight 86 kg | 190 lb

Side Struts, Included

Side Struts, Optional 1 inboard

Wind Velocity Operational180 km/h112 mphWind Velocity Survival Rating250 km/h155 mph

Wind Forces At Wind Velocity Survival Rating

Angle α for MT Max -120 $^{\circ}$

 Axial Force (FA)
 10670 N | 2399 lbf

 Side Force (FS)
 5286 N | 1188 lbf

 Twisting Moment (MT)
 4752 N-m | 3505 ft lb

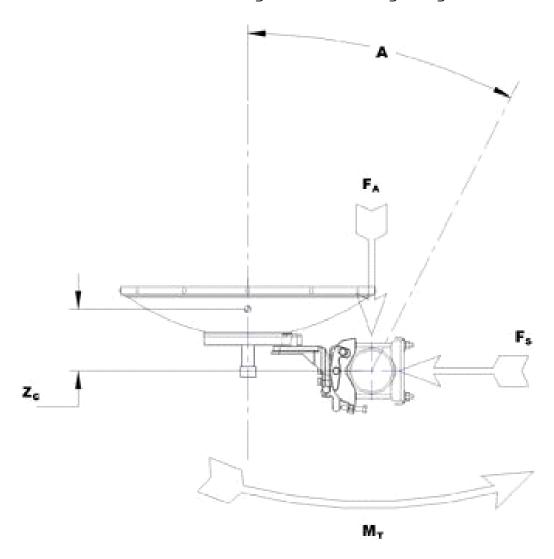
 Weight with 1/2 in (12 mm) Radial Ice
 234 kg | 516 lb

 Zcg with 1/2 in (12 mm) Radial Ice
 543 mm | 21 in

 Zcg without Ice
 363 mm | 14 in

page 2 of 5

Wind Forces At Wind Velocity Survival Rating Image



Packed Dimensions

Gross Weight, Packed Antenna	127.0 kg	280.0 lb
Height	211.0 cm	83.1 in
Length	190.0 cm	74.8 in

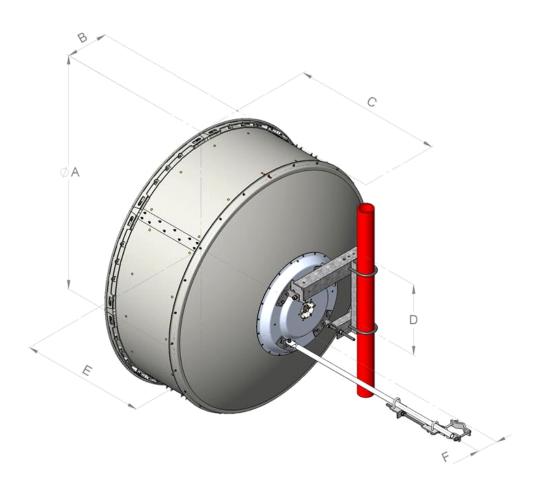
Volume 1.8 m³

Width 45.0 cm | 17.7 in

page 3 of 5 November 10, 2018



Antenna Dimensions And Mounting Information



Dimensions in inches (mm)						
Antenna size, ft (m)	А	В	С	D	E	F
6 (1.8)	74.8 (1899)	13.4 (340)	47.5 (1206)	22.4 (570)	39.4 (1001)	6.9 (174)

Regulatory Compliance/Certifications

Agency Classification

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

page 4 of 5 November 10, 2018



VHI P6-23-2WH/B

* 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 BandBands 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 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 LossThe 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.

page 5 of 5 November 10, 2018

