

0.9m | 3 ft ValuLine® High Performance Low Profile Antenna, singlepolarized, 12.700–13.250 GHz, WR75 flange, white antenna, composite broadband grey radome without flash, standard pack—one-piece reflector

OBSOLETE

This product was discontinued on: May 1, 2022 Replaced By:

VHLPX3-13-1WH/A

0.9m | 3 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 12.700–13.250 GHz, WR75 flange, white antenna, composite broadband grey radome without flash, standard 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
Polarization	Single
Antenna Input	WR75
Antenna Color	White
Reflector Construction	One-piece reflector
Radome Color	Gray
Radome Material	Composite Broadband
Flash Included	No
Side Struts, Included	0
Side Struts, Optional	1 inboard
Dimensions	
Diameter, nominal	0.9 m 3 ft

Electrical Specifications

Page 1 of 6



Operating Frequency Band	12.700 – 13.250 GHz
Gain, Low Band	39.9 dBi
Gain, Mid Band	40 dBi
Gain, Top Band	40.1 dBi
Boresite Cross Polarization Discrimination (XPD)	30 dB
Front-to-Back Ratio	66 dB
Beamwidth, Horizontal	1.7 °
Beamwidth, Vertical	1.7 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7180A
Electrical Compliance	Brazil Anatel Class 2 Canada SRSP 312.7 Part B ETSI 302 217 Class 3 US FCC Part 101B

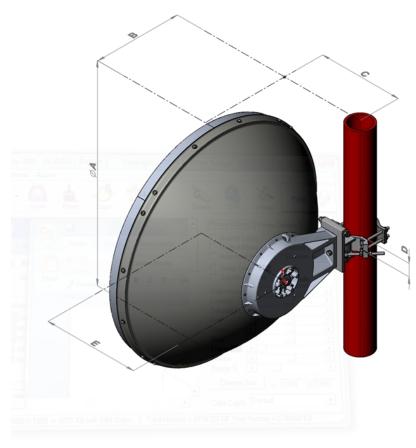
Mechanical Specifications

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	

Page 2 of 6



Antenna Dimensions and Mounting Information



Dimension in Inches (mm)					
Antenna size, ft (m)	A	B	C	D	Е
<mark>3 (1.0</mark>)	39.3 (999)	16 (407)	15.2 (387)	2.4 (60)	17.2 (437)

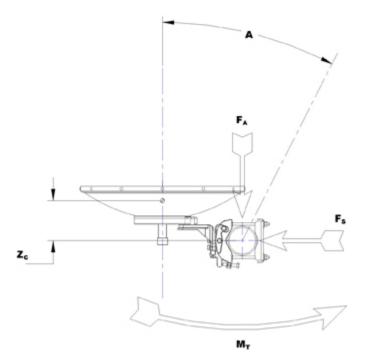
Wind Forces at Wind Velocity Survival Rating

2903 N 652.621 lbf
0 °
1439 N 323.5 lbf
1179 N-m 10,435.029 in lb
135 mm 5.315 in
84 mm 3.307 in
46 kg 101.413 lb
C 1 1 8

Page 3 of 6



Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Height, packed 1110 mm	43.701 in
Width, packed400 mm	15.748 in
Length, packed 1200 mm	47.244 in
Packaging Type Standard p	ack
Volume 0.5 m ³ 7	17.657 ft³
Weight, gross29 kg 6	3.934 lb
Weight, net17 kg 3	7.479 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

Page 4 of 6

©2023 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: December 6, 2023

COMMSCOPE°



Footnotes **Operating Frequency Band** Bands correspond with CCIR recommendations or common allocations 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 For VHLP(X), SHP(X), HX and USX antennas, the wind speed where the Wind Speed, operational 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

Page 5 of 6

©2023 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: December 6, 2023

COMMSCOPE®

	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.
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.

Page 6 of 6

