

1.8 m | 6 ft ValuLine® High Performance Low Profile Antenna, singlepolarized, 7.125–8.500 GHz, UBR84, white antenna, flexible woven polymer gray radome without flash, standard pack—one-piece reflector

Product Classification

Product BrandValuite@General SpecificationsAntenna TypeVHEP-Valuite@High Performance Low Profile Antenna, single polarizedPolarizationSingleAntenna InputUBR84Antenna ColorUBR84Antenna ColorOne-picer effectorRadome ColorGrayRadome ColorOne-picer effectorRadome ColorNoSide Struts, IncludedNoSide Struts, IncludedNoDimensionsInboardDimensionsNoPolarizet for EffectionsNoOperating Frequency BandNoAntendaNoGian, Low BandNoGian, Top BandNoAndendaNoGradematic MotorNoGradematic MotorNo </th <th>Product Type</th> <th>Microwave antenna</th>	Product Type	Microwave antenna
Antenna TypeVHLP-ValuLine% High Performance Low Profile Antenna, single polarizedPolarizationSingleAntenna InputUBR84Antenna ColorOne-pice reflectorRaflector ConstructionOne-pice reflectorRadome ColorGrayRadome MaterialPolymerFlash IncludedNoSide Struts, Included1Side Struts, Optional1DimensionSJame fetFlaeter, nominal1.8m 6ftGrayting Frequency Band1.25 = 8.500 GHzGain, Low Band4.0.1 dBiGain, Top Band4.0.3 dBiGin Top Band1.5 dBiGross Polarization Discrimination (XPD)3.2 dBiGross Polarization Discrimination (XPD)3.2 dBiGross Polarization Discrimination (XPD)3.2 dBiFort-beak Ratio6.7 dBi	Product Brand	ValuLine®
PolarizedpolarizedPolarizedSingleAntenna InputUBR84Antenna ColorWhiteReflector ConstructionOne-piece reflectorRadome ColorGrayRadome MaterialPolymerFlash IncludedNoSide Struts, Included1Bide Struts, Optional1Dimensions1Pletertical Specifications1.8 m l 6 ftGrain, Low Band9.125 – 8.500 GHzGain, Low Band4.0.1 dBiGain, Top Band4.0.3 dBiGoreste Cross Polarization Discrimination (XPD)32 dBFortt-o-Back Ratio6.7 dB	General Specifications	
Artenna InputUBR84Antenna ColorWhiteAntenna ColorOne-piece reflectorReflector ConstructionOne-piece reflectorRadome ColorGrayRadome MaterialPolymerFash IncludedNoSide Struts, Included1Side Struts, Optional1 inboardDimensionsJPlaneter, nominal1.8m16 ftOperating Frequency Band7.125 = 8.500 GHzGain, Low Band40.1 dBiGain, Top Band40.8 dBiGain, Top Band32.08Front-to-Back Ratio67.dB	Antenna Type	
Antenna ColorWhiteReflector ConstructionOne-pice reflectorRadome ColorGrayRadome MaterialPolymerFash IncludedNoSide Struts, Included1Side Struts, Optional1Dimensions	Polarization	Single
Reflector ConstructionOne-piece reflectorRadome ColorGrayRadome MaterialPolymerFash IncludedNoSide Struts, Included1Side Struts, Optional1DimensionsJDimenter, nominal.8m l 6 ftGearting Frequency Band40.1 dBiGain, Low Band40.1 dBiGain, Top Band40.8 dBiGain, Top Band40.5 dBiForter-Back RatioS2 dBiForter-Back RatioS2 dBiForter-Back Ratio57 dBi	Antenna Input	UBR84
Radome ColorGrayRadome MaterialPolymerRadome MaterialNoFlash IncludedNSide Struts, Included1Side Struts, Optional1 inboardDimensions1Dimeter, nominal1.8 m l 6 ftPoerating Frequency Band7.125 ~ 8.500 GHzGain, Low Band40.8 dBiGain, Top Band41.5 dBiGain, Top Band32 dBiForte-Back Ratio67 dBi	Antenna Color	White
Radome MaterialPolymerFlash IncludedNoSide Struts, Included1Side Struts, Optional1Dimensions1Diameter, nominal1.8 m 6 ftClectrical Specifications7.125 = 8.500 GHzOperating Frequency Band40.1 dBiGain, Low Band40.8 dBiGain, Top Band41.5 dBiBorste Cross Polarization Discrimination (XPD)32 dBFront-Back Ratio67 dB	Reflector Construction	One-piece reflector
Flash IncludedNoSide Struts, Included1Side Struts, Optional1 inboardDimensions1Dimeter, nominal1.8 m 6 ftElectrical Specifications7.125 - 8.500 GHzOperating Frequency Band40.1 dBiGain, Low Band40.8 dBiGain, Top Band41.5 dBiBoresite Cross Polarization Discrimination (XPD)32 dBFront-o-Back Ratio67 dB	Radome Color	Gray
Side Struts, Included1Side Struts, Optional1 inboardDimensions1Diameter, nominal1.8 m 6 ftElectrical Specifications7.125 - 8.500 GHzGain, Low Band40.1 dBiGain, Mid Band40.8 dBiGoin, Top Band32 dBBroesite Cross Polarization Discrimination (XPD)32 dBFront-to-Back Ratio67 dB	Radome Material	Polymer
Side Struts, Optional1 inboardDimensions	Flash Included	No
DimensionsDimeter, nominal1.8 m 6 ftElectrical Specifications7.125 - 8.500 GHzOperating Frequency Band7.125 - 8.500 GHzGain, Low Band40.1 dBiGain, Mid Band40.8 dBiGain, Top Band41.5 dBiBoresite Cross Polarization Discrimination (XPD)32 dBFront-to-Back Ratio67 dB	Side Struts, Included	1
Diameter, nominal1.8 m 6 ftElectrical Specifications7.125 - 8.500 GHzOperating Frequency Band7.125 - 8.500 GHzGain, Low Band40.1 dBiGain, Mid Band40.8 dBiGain, Top Band41.5 dBiBoresite Cross Polarization Discrimination (XPD)32 dBiFront-to-Back Ratio67 dBi	Side Struts, Optional	1 inboard
Electrical SpecificationsOperating Frequency Band7.125 - 8.500 GHzGain, Low Band40.1 dBiGain, Mid Band40.8 dBiGain, Top Band41.5 dBiBoresite Cross Polarization Discrimination (XPD)32 dBFront-to-Back Ratio67 dB	Dimensions	
Operating Frequency Band7.125 – 8.500 GHzGain, Low Band40.1 dBiGain, Mid Band40.8 dBiGain, Top Band41.5 dBiBoresite Cross Polarization Discrimination (XPD)32 dBFront-to-Back Ratio67 dB	Diameter, nominal	1.8 m 6 ft
Gain, Low Band40.1 dBiGain, Mid Band40.8 dBiGain, Top Band41.5 dBiBoresite Cross Polarization Discrimination (XPD)32 dBFront-to-Back Ratio67 dB	Electrical Specifications	
Gain, Mid Band40.8 dBiGain, Top Band41.5 dBiBoresite Cross Polarization Discrimination (XPD)32 dBFront-to-Back Ratio67 dB	Operating Frequency Band	7.125 – 8.500 GHz
Gain, Top Band41.5 dBiBoresite Cross Polarization Discrimination (XPD)32 dBFront-to-Back Ratio67 dB	Gain, Low Band	40.1 dBi
Boresite Cross Polarization Discrimination (XPD)32 dBFront-to-Back Ratio67 dB	Gain, Mid Band	40.8 dBi
Front-to-Back Ratio 67 dB	Gain, Top Band	41.5 dBi
	Boresite Cross Polarization Discrimination (XPD)	32 dB
Beamwidth, Horizontal 1.5 °	Front-to-Back Ratio	67 dB
	Beamwidth, Horizontal	1.5 °

Page 1 of 6



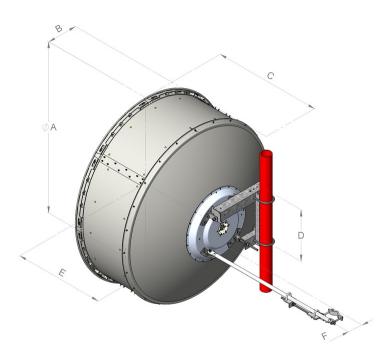
Beamwidth, Vertical	1.5 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7081D
Electrical Compliance	Brazil Anatel Class 3 Canada SRSP 307.1 Canada SRSP 307.7 Part B ETSI 302 217 Class 3
Mechanical Specifications	
Compatible Mounting Pipe Diameter	115 mm-120 mm 4.5 in-4.7 in
Fine Azimuth Adjustment Range	±15°
Fine Elevation Adjustment Range	±5°
Wind Speed, operational	180 km/h 111.847 mph
Wind Speed, survival	250 km/h 155.343 mph

Page 2 of 6



©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 12, 2025

Antenna Dimensions and Mounting Information



	Dimensio	ons in inch	nes (mm)			
Antenna size, ft (m)	A	В	с	D	Е	F
6 (1.8)	74.8 (1899)	13.4 (340)	47.5 (1206)	22.4 (570)	39.4 (1001)	6.9 (174)

Wind Forces at Wind Velocity Survival Rating

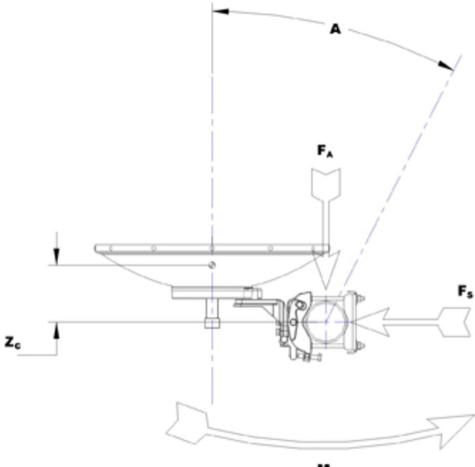
Axial Force (FA)	10670 N 2,398.712 lbf
Angle α for MT Max	-120 °
Side Force (FS)	5286 N 1,188.34 lbf
Twisting Moment (MT)	4752 N-m 42,058.742 in lb
Zcg without Ice	363 mm 14.291 in
Zcg with 1/2 in (12 mm) Radial Ice	543 mm 21.378 in
Weight with 1/2 in (12 mm) Radial Ice	234 kg 515.881 lb

ANDREW an Amphenol company

©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 12, 2025

Page 3 of 6

Wind Forces at Wind Velocity Survival Rating Image



Mτ

Packaging and Weights

Height, packed	2110 mm 83.071 in
Width, packed	450 mm 17.717 in
Length, packed	1900 mm 74.803 in
Packaging Type	Standard pack
Volume	1.8 m³ 63.566 ft³
Weight, gross	127 kg 279.987 lb
Weight, net	86 kg 189.597 lb

Regulatory Compliance/Certifications

Page 4 of 6



©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 12, 2025

Agency	Classification	
ISO 9001:2015 REACH-SVHC	Designed, manufactured and/or distributed under this quality management system Compliant as per SVHC revision on www.andrew.com/ProductCompliance	
* Footnotes		
Operating Frequency Ba	and	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 Polariza	tion 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 Envel	ope 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, operationa	1	For VHLP(X), SHP(X), HX and USX antennas, the wind speed where the maximum antenna deflection is 0.3×163 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

Page 5 of 6



©2025 ANDREW, an Amphenol company. All rights reserved. Amphenol and ANDREW are registered trademarks of Amphenol and/or its affiliates in the U.S. and other countries. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 12, 2025

	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.
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

