

0.9m | 3 ft ValuLine® High Performance Low Profile Antenna, singlepolarized, 7.100–8.500 GHz, CPR112G flange, white antenna, composite broadband grey radome without flash, standard pack—one-piece reflector

#### Product Classification

Product BrandValuationGeneral SpecificationsAntenna TypeVHLP-Valuation® High Performance Low Profile Antenna, single polarizedPolarizedSingleAntenna InputCPR112GAntenna ColorVHiteRafector ConstructionOnepice reflectorRadome ColorGrayRadome MaterialComposite BroadbandFash IncludedNoSide Struts, Included0Side Struts, Included0PointersionsJinboardPlaneter, nominal0.9 nj 3 ftGraySide Struts, IncludedPointer, Specifications100 - 8.500 GHzGint, Nig Band3.63 dBiGint, Jong BandSide Struts, IncludedGint, Top BandSide Struts, IncludedGint, Top BandSide Struts, IncludedFerent-toes Polarization Discrimination (XPD)Side Struts, IncludedForeste Cross Polarization Discrimination (XPD)Side Struts, IncludedForent-to-Back RatioSide Struts, IncludedForent-to-Back RatioSide Struts, IncludedForeste Cross Polarization Discrimination (XPD)Side Struts, IncludedForent-to-Back RatioSide Struts, IncludedForent-to-Back RatioSide Struts, IncludedForester, Polarization DiscriminationSide Struts, IncludedForester, Polarization DiscriminationSide Struts, IncludedForester, Polarization DiscriminationSide Struts, IncludedForester, Polarization DiscriminationSide Struts, IncludedForester, Polarization Discriminati	Product Type	Microwave antenna
Antenna TypeVHLP-ValuLine@ High Performance Low Profile Antenna, single polarizedPolarizationSingleAntenna InputCPR112GAntenna ColorOne-pice reflectorRadome ColorGrayRadome ColorComposite BroadbandRadome MaterialOFash IncludedNoSide Struts, Included0Bide Struts, Optional1 inboardDimensions0Fleetrical Specifications0.9 m   3 ftPolarizent Specifications7.100 – 8.500 GHzGain, Mid Band3.5.3 dBiGain, Top BandSize ABBForest-Coss Polarization Discrimination (XPD)3.6.8 dBiForest-Coss Polarization Tiscement5.3.6 dBiForest-Coss Polarization Discrimination (XPD)3.6.8 dBiFo	Product Brand	ValuLine®
PolarizationpolarizedPolarizationSingleAntenna InputCPR112GAntenna ColorWhiteReflector ConstructionOne-piece reflectorRadome ColorGrayRadome MaterialComposite BroadbandFlash IncludedNoSide Struts, Included0Side Struts, Optional1 inboardDimensions	General Specifications	
Antenna InputCPR112GAntenna ColorWhiteAntenna ColorOne-piece reflectorReflector ConstructionOne-piece reflectorRadome ColorGrayRadome MaterialComposite BroadbandFlash IncludedNoSide Struts, Included0Side Struts, Optional1 inboardDimensionsJPaneter, nominal0 9m13 ftOperating Frequency Band348 dBiGain, Low Band35.3 dBiGain, Top Band35.8 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio61 dB	Antenna Type	
Antenna ColorWhiteReflector ConstructionOne-pice reflectorRadome ColorGrayRadome MaterialComposite BroadbandFlash IncludedNoSide Struts, Included0Side Struts, Optional1 inboardDimensions-Planeter, nominal0 9 m   3 ftGearting Frequency Band3.100 ~ 8.500 GHzGain, Low Band3.53 dBiGain, Top Band3.53 dBiGain, Top Band3.53 dBiForeste Cross Polarization Discrimination (XPD)3.0 dBFort-to-Back Ratio6.1 dB	Polarization	Single
Reflector ConstructionOne-piece reflectorRadome ColorGrayRadome MaterialComposite BroadbandFash IncludedNoSide Struts, IncludedOSide Struts, Optional0DimensionsJinboardDimeter, nominal0.9 m   3 ftGearting Frequency Band34.8 dBiGain, Mid Band35.3 dBiGain, Top Band35.8 dBiGain, Top Band30.0 dBiForte-Back Ratio61.0 dBiGranter, Rominal30.0 dBiGain, Top Band30.0 dBiGain, Top Band30.0 dBiGranter, Rominal30.0 dBiGain, Top Band30.0 dBiGranter, Rominal30.0 dBiGranter, Rominal30.0 dBiGain, Top Band30.0 dBiGranter, Rominal30.0 dBi<	Antenna Input	CPR112G
Radome ColorGrayRadome MaterialComposite BroadbandFash IncludedNoSide Struts, Included0Side Struts, Optional1 inboardDimensions	Antenna Color	White
Radome MaterialComposite BroadbandFlash IncludedNoSide Struts, Included0Side Struts, Optional1 inboardDimensions.Dimeter, nominal0.9 m l 3 ftOperating Frequency Band7.100 = 8.500 GHzGain, Low Band35.3 dBiGain, Top Band55.8 dBiBoreste Cross Polarization Discrimination (XPD)0.0 dBFort-to-Back Ratio6.10 dB	Reflector Construction	One-piece reflector
Flash IncludedNoSide Struts, Included0Side Struts, Optional1 inboardDimensions1 inboardDiameter, nominal0.9 m   3 ftElectrical Specifications7.100 – 8.500 GHzOperating Frequency Band34.8 dBiGain, Low Band35.3 dBiGain, Top Band35.8 dBiBoreste Cross Polarization Discrimination (XPD)30.4 BiFort-to-Back Ratio6.1 dBi	Radome Color	Gray
Side Struts, Included0Side Struts, Optional1 inboardDimensions.Dimeter, nominal.09 m   3 ftElectrical Specifications.Operating Frequency Band.910 - 8.500 GHzGain, Low Band.34.8 dBiGain, Top Band.53.3 dBiBoresite Cross Polarization Discrimination (XPD).00 dBFront-to-Back Ratio.61 dB	Radome Material	Composite Broadband
Side Struts, Optional1 inboardDimensions	Flash Included	No
DimensionsDiameter, nominal0.9 m   3 ftElectrical Specifications7.100 - 8.500 GHzOperating Frequency Band7.100 - 8.500 GHzGain, Low Band34.8 dBiGain, Mid Band35.3 dBiGain, Top Band35.8 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio61 dB	Side Struts, Included	0
Diameter, nominal0.9 m   3 ftElectrical Specifications7.00 - 8.500 GHzOperating Frequency Band7.100 - 8.500 GHzGain, Low Band34.8 dBiGain, Mid Band35.3 dBiGain, Top Band35.8 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio61 dB	Side Struts, Optional	1 inboard
Electrical SpecificationsOperating Frequency Band7.100 – 8.500 GHzGain, Low Band34.8 dBiGain, Mid Band35.3 dBiGain, Top Band35.8 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio61 dB	Dimensions	
Operating Frequency Band7.100 – 8.500 GHzGain, Low Band34.8 dBiGain, Mid Band35.3 dBiGain, Top Band35.8 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio61 dB	Diameter, nominal	0.9 m   3 ft
Gain, Low Band34.8 dBiGain, Mid Band35.3 dBiGain, Top Band35.8 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio61 dB	Electrical Specifications	
Gain, Mid Band 35.3 dBi   Gain, Top Band 35.8 dBi   Boresite Cross Polarization Discrimination (XPD) 30 dB   Front-to-Back Ratio 61 dB	Operating Frequency Band	7.100 – 8.500 GHz
Gain, Top Band35.8 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio61 dB	Gain, Low Band	34.8 dBi
Boresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio61 dB	Gain, Mid Band	35.3 dBi
Front-to-Back Ratio 61 dB	Gain, Top Band	35.8 dBi
	Boresite Cross Polarization Discrimination (XPD)	30 dB
Beamwidth, Horizontal 3 °	Front-to-Back Ratio	61 dB
	Beamwidth, Horizontal	3°

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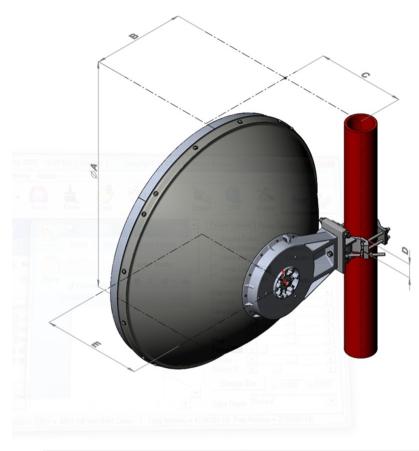
Beamwidth, Vertical	3 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7146A
Electrical Compliance	Brazil Anatel Class 2   ETSI 302 217 Class 3
Mechanical Specifications	
Compatible Mounting Pipe Diameter	90 mm-120 mm   3.5 in-4.7 in
Fine Azimuth Adjustment Range	±15°
Fine Elevation 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

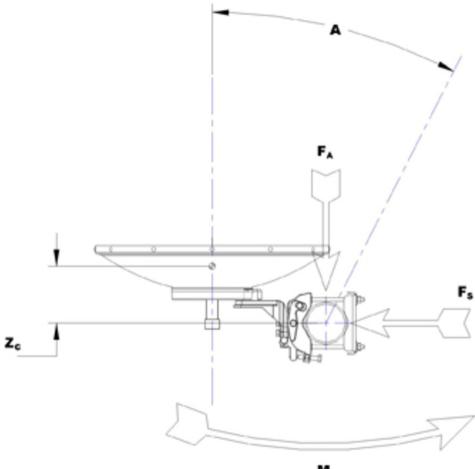
Axial Force (FA)	2903 N   652.621 lbf
Angle α for MT Max	0 °
Side Force (FS)	1439 N   323.5 lbf
Twisting Moment (MT)	1179 N-m   10,435.029 in lb
Zcg without Ice	135 mm   5.315 in
Zcg with 1/2 in (12 mm) Radial Ice	84 mm   3.307 in
Weight with 1/2 in (12 mm) Radial Ice	46 kg   101.413 lb

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Wind Forces at Wind Velocity Survival Rating Image



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#### Packaging and Weights

Height, packed	1110 mm   43.701 in
Width, packed	400 mm   15.748 in
Length, packed	1200 mm   47.244 in
Packaging Type	Standard pack
Volume	0.5 m³   17.657 ft³
Weight, gross	29 kg   63.934 lb
Weight, net	17 kg   37.479 lb

#### Regulatory Compliance/Certifications

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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 revi	ision on www.andrew.com/ProductCompliance
ROHS	Compliant	
UK-ROHS	Compliant	
* Footnotes		
Operating Frequency Ba	nd	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	I	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.

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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.
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.

