Base Product



0.3 m | 1 ft ValuLine® High Performance Low Profile Antenna, singlepolarized, 31.000–33.400 GHz

Product Classification

Product BrandValuationGeneral SpecificationsHLP - Valuation@High Performance Low Profile Antenna, single polarizedPolarizationSinglePolarizationSingleSide Struts, Included0Side Struts, Optional0Dimensions0Dimensions0Polarization Single0.3m 1ftPolarization Prequency Band0.3m 00 - 0.3m 00 - 0.	Product Type	Microwave antenna
Antenna TypeHLP-YaluLine® High Performance Low Profile Antenna, single polarizedPolarizationSingleSide Struts, Included0Side Struts, Optional0Dimensions0Dimensions0Pareter, nominal03 m l 1 ftOperating Frequency Band31.00 - 93.400 GHzGain, Low Band38.7 dBiGain, Top Band39.0 dBiGain, Top Band39.0 dBiGorste Cross Polarization Discrimination (XPD)30.80Front-on Back Ratio58.08Beamwidth, Norizontal18.°Reamwidth, Vertical18.°Reamwidth, Vertical17.7 dBiNetwork13.°Strukt13.°<	Product Brand	ValuLine®
PolarizationpolarizedPolarizationSingleSide Struts, Included0Side Struts, Optional0Dimensions0Dimensions0Planeter, nominal0Operating Frequency Band0.1000 - 33.400 GHzGain, Low Band38.7 dBiGain, Top Band39.4 dBiBoreste Cross Polarization Discrimination (XPD)30.4 dBiFort-to-Back Ratio8.4 dBiBeanwidth, Horizontal18.°Return Loss17.7 dBiKWR13.Constant Component Compon	General Specifications	
Side Struts, Included0Side Struts, Optional0Dimensions0Dimeter, nominal0 3m 11 ftDeating Frequency Band31.000 - 33.400 GHzGain, Low Band88.7 dBiGain, Mid Band99.1 dBiBoresite Cross Polarization Discrimination (XPD)30.dBFornto-Back Ratio58.dBBeanwidth, Horizontal1.8 °Beanwidth, Vertical1.3 °Keturn Loss1.3 °Koll1.3 ° <tr< th=""><th>Antenna Type</th><th>-</th></tr<>	Antenna Type	-
Side Struts, Optional0Dimensions	Polarization	Single
DimensionsDameter, nominal0.3 m 1fDetertical Specifications0.3 m 1fGearting Frequency Band31.000 - 33.400 GHzGain, Low Band38.7 dBiGain, Mid Band38.9 dBiGain, Top Band30.1 dBiBoresite Cross Polarization Discrimination (XPD)30.4 dBiFront-to-Back Ratio58.4 dBiBeanwidth, Horizontal1.8 °Return Loss1.7 dBiKNR1.3 Calcalent LossKow Back Retere (RPE)7026Bi	Side Struts, Included	0
Dameter, nominal0.3 m l ftElectrical Specifications5.0 m l ftOperating Frequency Band31.000 - 33.400 GHzGain, Low Band38.7 dBiGain, Mid Band38.9 dBiGain, Top Band30.1 dBiBoresite Cross Polarization Discrimination (XPD)30.4 dBiFront-to-Back Ratio58.4 dBiBeanwidth, Horizontal1.8 °Return Loss1.7 rdBiKWR1.3Ration Patter Envelope Reference (RPE)7026Bi	Side Struts, Optional	0
Electrical SpecificationsOperating Frequency Band31.000 - 33.400 GHzGain, Low Band38.7 dBiGain, Mid Band38.9 dBiGain, Top Band39.1 dBiBoresite Cross Polarization Discrimination (XPD)30.4 dBiFront-to-Back Ratio58.4 dBiBeanwidth, Horizontal1.8°Return Loss1.7 dBiKtype Loss1.3Kow R1.3Ration Pattern Envelope Reference (RPE)7026Bi	Dimensions	
Operating Frequency Band31.000 – 33.400 GHzGain, Low Band38.7 dBiGain, Mid Band38.9 dBiGain, Top Band39.1 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio58 dBBeanwidth, Horizontal1.8°Beanwidth, Vertical1.3°Kurn Loss1.3VSWR1.3Ration Pattern Envelope Reference (RPE)7026B	Diameter, nominal	0.3 m 1 ft
Gain, Low Band38.7 dBiGain, Mid Band38.9 dBiGain, Top Band39.1 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio58 dBBeanwidth, Horizontal1.8°Beanwidth, Vertical1.3°Keturn Loss1.3VSWR1.3Ratiation Pattern Envelope Reference (RPE)7026B	Electrical Specifications	
Gain, Mid Band38.9 dBiGain, Top Band39.1 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio58 dBiBeanwidth, Horizontal1.8 °Beanwidth, Vertical1.9 °Return Loss1.7 dBiVSWR1.3 °Ration Pattern Envelope Reference (RPE)702Bi	Operating Frequency Band	31.000 – 33.400 GHz
Gain, Top Band39.1 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio58 dBBeanwidth, Horizontal1.8 °Beanwidth, Vertical1.8 °Return Loss17.7 dBVSWR1.3Ratiation Pattern Envelope Reference (RPE)702 B	Gain, Low Band	38.7 dBi
Boresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio58 dBBeamwidth, Horizontal1.8°Beamwidth, Vertical1.8°Return Loss177 dBVSWR1.3Radiation Pattern Envelope Reference (RPE)7026B	Gain, Mid Band	38.9 dBi
Front-to-Back Ratio58 dBBeanwidth, Horizontal1.8°Beanwidth, Vertical1.8°Return Loss17.7 dBVSWR1.3Radiation Pattern Envelope Reference (RPE)7026B	Gain, Top Band	39.1 dBi
Beanwidth, Horizontal1.8°Beanwidth, Vertical1.8°Return Loss17.7 dBVSWR1.3Radiation Pattern Envelope Reference (RPE)7026B	Boresite Cross Polarization Discrimination (XPD)	30 dB
Beamwidth, Vertical1.8°Return Loss17.7 dBVSWR1.3Radiation Pattern Envelope Reference (RPE)7026B	Front-to-Back Ratio	58 dB
Return Loss17.7 dBVSWR1.3Radiation Pattern Envelope Reference (RPE)7026B	Beamwidth, Horizontal	1.8 °
VSWR1.3Radiation Pattern Envelope Reference (RPE)7026B	Beamwidth, Vertical	1.8 °
Radiation Pattern Envelope Reference (RPE)7026B	Return Loss	17.7 dB
	VSWR	1.3
Electrical Compliance Brazil Anatel Class 2 ETSI 302 217 Class 3B	Radiation Pattern Envelope Reference (RPE)	7026B
	Electrical Compliance	Brazil Anatel Class 2 ETSI 302 217 Class 3B

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Mechanical Specifications

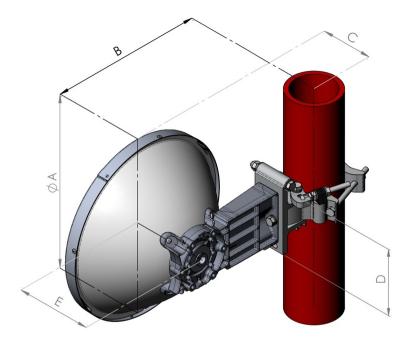
Compatible Mounting Pipe Diameter	50 mm-120 mm 2.0 in-4.7 in
Fine Azimuth Adjustment Range	±15°
Fine Elevation Adjustment Range	±15°
Wind Speed, operational	201 km/h 124.896 mph
Wind Speed, survival	250 km/h 155.343 mph

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Antenna Dimensions and Mounting Information



Dimensions in inches (mm)					
Antenna size, ft (m)	А	В	С	D	E
1 (0.3)	15(382)	12.7(323)	6(151)	6.1(155)	7(177)

Wind Forces at Wind Velocity Survival Rating

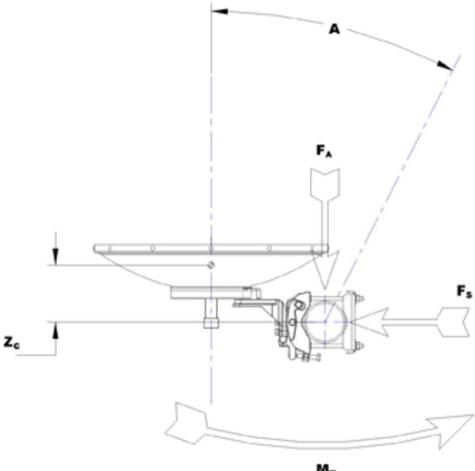
Axial Force (FA)	446 N 100.265 lbf
Side Force (FS)	198 N 44.512 lbf
Twisting Moment (MT)	144 N-m 1,274.507 in lb
Zcg without Ice	28 mm 1.102 in
Zcg with 1/2 in (12 mm) Radial Ice	54 mm 2.126 in
Weight with 1/2 in (12 mm) Radial Ice	12 kg 26.455 lb

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Wind Forces at Wind Velocity Survival Rating Image



M_T

Packaging and Weights

Weight, net

4.7 kg | 10.362 lb

Regulatory Compliance/Certifications

Agency Classification ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

* Footnotes

Operating Frequency Band

Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.

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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
Wind Speed, operational	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.
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.

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