

on the go



VHLP4-13-3GR/B

1.2 m | 4 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 12.700–13.250 GHz, UBR120, gray antenna, polymer gray radome without flash, standard pack—one-piece reflector

General Specifications

Packing Standard pack

Radome Color Gray
Radome Material Polymer

Reflector Construction One-piece reflector

Antenna Input UBR120
Antenna Color Gray

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

Diameter, nominal 1.2 m | 4 ft

Flash Included No Polarization Single

Electrical Specifications

Beamwidth, Horizontal 1.3 °
Beamwidth, Vertical 1.3 °
Cross Polarization Discrimination (XPD) 30 dB

Electrical Compliance Brazil Anatel Class 2 | Canada SRSP 312.7 Part B | ETSI 302 217 Class

3 | US FCC Part 101B

Front-to-Back Ratio 68 dB
Gain, Low Band 41.9 dBi
Gain, Mid Band 42.0 dBi
Gain, Top Band 42.1 dBi

Operating Frequency Band 12.700 – 13.250 GHz

Radiation Pattern Envelope Reference (RPE) 7049B
Return Loss 17.7 dB
VSWR 1.30

Mechanical Specifications

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

Mounting Pipe Diameter 115 mm | 4.5 in

Net Weight 40 kg | 88 lb

Side Struts, Included 1 inboard

Side Struts, Optional 1 inboard

Wind Velocity Operational 200 km/h | 124 mph Wind Velocity Survival Rating 250 km/h | 155 mph

Wind Forces At Wind Velocity Survival Rating

Axial Force (FA) 5326 N | 1197 lbf



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Side Force (FS)
Twisting Moment (MT)
Weight with 1/2 in (12 mm) Radial Ice
Zcg with 1/2 in (12 mm) Radial Ice
Zcg without Ice

2638 N | 593 lbf 2370 N•m 75 kg | 165 lb 310 mm | 12 in

210 mm | 8 in





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Wind Forces At Wind Velocity Survival Rating Image



Packed Dimensions

Gross Weight, Packed Antenna 72.0 kg | 158.7 lb Height 1520.0 mm | 59.8 in Length 1360.0 mm | 53.5 in Volume 0.9 m³

Width 410.0 mm | 16.1 in



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Antenna Dimensions And Mounting Information



* 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. For a given frequency band, gain is primarily a function of antenna size. The Gain, Mid Band gain of Andrew antennas is determined by either gain by comparison or by computer integration of the measured antenna patterns. Operating Frequency Band Bands 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 determine an antenna's ability to discriminate against unwanted signals under conditions of radio congestion. Radiation patterns are dependent on antenna series, size, and frequency. 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. 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

VSWR

mounting pipe. Maximum; is the guaranteed Peak Voltage-Standing-Wave-Ratio within the

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.

operating band.