Product Specifications



on the go



PXL12-71W-D7M

3.7 m | 12 ft Standard Parabolic, Low VSWR Unshielded Antenna, dual-polarized, 7.125–8.500 GHz, CPR137G, gray antenna, with flash, standard pack—two-piece reflector

General Specifications

Packing Standard pack
Reflector Construction Two-piece reflector

Antenna Input CPR137G
Antenna Color Gray

Antenna Type PXL - Standard Parabolic, Low VSWR Unshielded Antenna, dual-polarized

Diameter, nominal 3.7 m | 12 ft

Flash Included Yes
Polarization Dual

Electrical Specifications

Beamwidth, Horizontal 0.9 °
Beamwidth, Vertical 0.9 °
Cross Polarization Discrimination (XPD) 30 dB
Front-to-Back Ratio 58 dB
Gain, Low Band 44.1 dBi
Gain, Mid Band 44.9 dBi
Gain, Top Band 45.5 dBi

Operating Frequency Band 7.125 – 8.500 GHz

Return Loss 26.4 dB VSWR 1.10

Mechanical Specifications

Fine Azimuth Adjustment ±5°
Fine Elevation Adjustment ±5°

Mounting Pipe Diameter 115 mm | 4.5 in Net Weight 245 kg | 540 lb

Side Struts, Included 1 inboard | 1 outboard

Side Struts, Optional 2 outboard

Wind Velocity Operational 110 km/h | 68 mph Wind Velocity Survival Rating 200 km/h | 124 mph

Wind Forces At Wind Velocity Survival Rating

Angle a for MT Max -125 °

Axial Force (FA) 34587 N | 7775 lbf Side Force (FS) 9441 N | 2122 lbf

Twisting Moment (MT) -15900 N ⋅ m

Weight with 1/2 in (12 mm) Radial Ice 528 kg | 1164 lb

Zcg with 1/2 in (12 mm) Radial Ice 566 mm | 22 in

Zcg without Ice 483 mm | 19 in

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Wind Forces At Wind Velocity Survival Rating Image



Packed Dimensions

 Gross Weight, Packed Antenna
 541.0 kg | 1192.7 lb

 Height
 2140.0 mm | 84.3 in

 Length
 3990.0 mm | 157.1 in

Volume 9.1 m³

Width 1070.0 mm | 42.1 in

Product Specifications



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Antenna Dimensions And Mounting Information



Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2008 Designed, manufactured and/or distributed under this quality management system

* 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.

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.

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.

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 mounting pipe.

VSWR Maximum; is the guaranteed Peak Voltage-Standing-Wave-Ratio within the

operating band.

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.