Product Specifications









PX2F-49-N7A

0.6 m | 2 ft Standard Parabolic Unshielded, Dual-Polarized Antenna, unpressurized, 4.940-4.990 GHz, N Female, gray antenna, with flash, standard pack—one-piece reflector

General Specifications

Antenna Type PXF - Standard Parabolic Unshielded, Dual-Polarized Antenna, unpressurized

Diameter, nominal 0.6 m | 2 ft
Packing Standard pack
Reflector Construction One-piece reflector
Antenna Input N Female

Antenna Color Gray

Antenna Type PXF - Standard Parabolic Unshielded, Dual-Polarized Antenna, unpressurized

Diameter, nominal 0.6 m | 2 ft Flash Included Yes Polarization Dual

Electrical Specifications

Operating Frequency Band 4.940 – 4.990 GHz

Beamwidth, Horizontal 6.6 °
Beamwidth, Vertical 6.6 °
Cross Polarization Discrimination (XPD) 30 dB

Electrical Compliance US FCC Part 101B

 Front-to-Back Ratio
 41 dB

 Gain, Low Band
 27.3 dBi

 Gain, Mid Band
 27.4 dBi

 Gain, Top Band
 27.6 dBi

Operating Frequency Band 4.940 – 4.990 GHz

Radiation Pattern Envelope Reference (RPE) 7092
Return Loss 14.0 dB
VSWR 1.50

Mechanical Specifications

Fine Azimuth Adjustment $\pm 5^{\circ}$ Fine Elevation Adjustment $\pm 5^{\circ}$

Mounting Pipe Diameter 50 mm-115 mm | 2.0 in-4.5 in

Net Weight 7 kg \mid 15 lb Side Struts, Included 0

Side Struts, Optional

Wind Velocity Operational 110 km/h | 68 mph Wind Velocity Survival Rating 250 km/h | 155 mph

Wind Forces At Wind Velocity Survival Rating

 Angle a for MT Max
 -10 °

 Axial Force (FA)
 483 N | 109 lbf

 Side Force (FS)
 297 N | 67 lbf

 Twisting Moment (MT)
 128 N ⋅ m

 Weight with 1/2 in (12 mm) Radial Ice
 26 kg | 57 lb

 Zcg with 1/2 in (12 mm) Radial Ice
 201 mm | 8 in

 Zcg without Ice
 165 mm | 6 in

Product Specifications

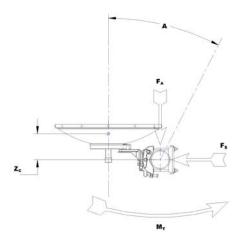


PX2F-49-N7A





Wind Forces At Wind Velocity Survival Rating Image



Packed Dimensions

Gross Weight, Packed Antenna	18.0 kg	39.7 lb	
Height	630.0 mm	1	24.8 in
Length	700.0 mm	1	27.6 in
Volume	$0.3 \; m^3$		
Width	700.0 mm	1	27.6 in

Product Specifications

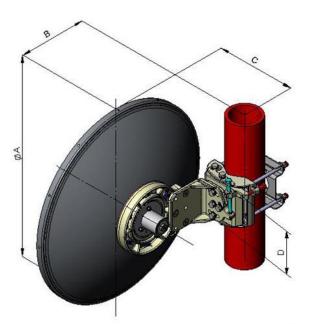


PX2F-49-N7A

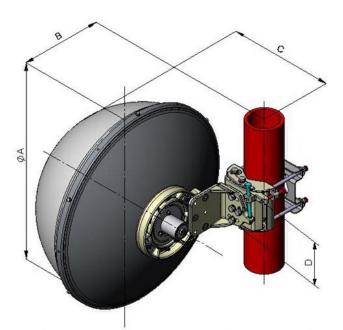
POWERED BY



Antenna Dimensions And Mounting Information



Dimension	Dimensions Without Radome, inches (mm)				
Antenna Size, ft (m)	A	В	С	D	
2(0.6)	25.1 (637)	12.2 (310)	8.2 (209)	5.9 (150)	



Dimensions, With Radome, inches (mm)						
Antenna Size, ft (m)	Α	В	С	D		
2 (0.6)	25.1 (637)	12.2 (310)	19.1 (484)	5.9 (150)		

Regulatory Compliance/Certifications

Agency ISO 9001:2008

Designed, manufactured and/or distributed under this quality management system

* Footnotes

Axial Force (FA)

Gain, Mid Band

Packing

Return Loss

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

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 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

Radiation Pattern Envelope Reference (RPE)

Andrew standard packing is suitable for export. Antennas are shipped as standard in totally recyclable cardboard or wirebound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing options

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. The figure that indicates the proportion of radio waves incident upon the antenna that are rejected as a ratio of those that

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

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.