

Product Specifications

PX3F-52-N7A

3 ft Standard Parabolic Unshielded Antenna, dual-polarized, unpressurized, 5.25–5.85 GHz, type N female flange, gray antenna with flash, standard pack—one-piece reflector



CHARACTERISTICS

General Specifications

Diameter, nominal	0.9 m 3 ft
Antenna Input	N Female
Antenna Type	PXF - Standard Parabolic Unshielded, Dual-Polarized Antenna, unpressurized
Polarization	Dual
Reflector Construction	One-piece reflector
Antenna Color	Gray
Radome Color	Gray
Radome Material	Molded
Flash Included	Yes

Packing *

Standard pack

Electrical Specifications

Operating Frequency Band *	5.250 – 5.850 GHz
Gain, Top Band	33.5 dBi
Gain, Mid Band *	33.4 dBi
Gain, Low Band	33.4 dBi
Front-to-Back Ratio *	42 dB
Cross Polarization Discrimination (XPD) *	30 dB
Beamwidth, Horizontal	3.8 °
Beamwidth, Vertical	3.8 °
VSWR *	1.50
Return Loss *	14.0 dB
Radiation Pattern Envelope Reference (RPE) *	4741
Electrical Compliance	ETSI 302 217 Class 1

Mechanical Specifications

Net Weight	18 kg 40 lb
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Packed Dimensions

Gross Weight, Packed Antenna	18.0 kg 39.7 lb
Length	115.0 cm 45.3 in
Width	87.0 cm 34.3 in
Height	115.0 cm 45.3 in

* Footnotes

*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 $180^\circ \pm 40^\circ$, 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.

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.

VSWR

Maximum; is the guaranteed Peak Voltage-Standing-Wave-Ratio within the operating band.

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