



WR-187 Waveguide Pressure Window, CPR187F and CPR187G Flanges, Aluminum

Waveguide Accessories Technical Data Sheet

PEWGP1003

Features

- WR-187 Waveguide
- Operating Frequency Range from 3.94 GHz to 5.99 GHz
- CPR187F and CPR187G Flanges
- 1.25:1 Max VSWR
- 2000 Watts (CW) Max Power Handling
- Insertion loss: 0.2 dB Max
- Thickness: 0.79 inches
- PTFE window material
- Pressure Handling Capability: 29 PSI Max

Applications

- Radar Systems
- Military and Space
- Wireless Radio Systems
- Communication Systems
- R&D Labs
- Microwave Radio Systems

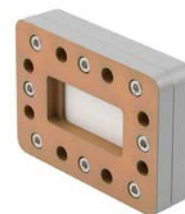
Description

Waveguide pressure windows are used to isolate pressurized components from non-pressurized components within a waveguide system. They can also provide protection against contaminants (debris, moisture and dust) from entering the waveguide system and degrading its RF performance. The PEWGP1003 is a WR-187 waveguide pressure windows that operates in the frequency range of 3.94 GHz to 5.99 GHz. This WR-187 waveguide termination has a Max VSWR of 1.25:1. This waveguide pressure window is made of painted aluminum and incorporates CPR187F and CPR187G flange interface. Waveguide pressure windows are part of Pasternack's comprehensive waveguide product offerings which are available in stock and ready for same-day shipment.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3.94		5.99	GHz
VSWR			1.25:1	
Insertion Loss			0.2	dB
Input Power			2	kWatts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-187 Waveguide Pressure Window, CPR187F and CPR187G Flanges, Aluminum PEWGP1003](#)



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Mechanical Specifications

Body Material	Aluminum
Body Finish	Chromate
Length	3.5 in [88.9][mm]
Width	2.5 in [63.5][mm]
Height	0.787 in [19.99][mm]
Weight	1.1 lbs [498.95][g]

Compliance Certifications (see [product page](#) for current document)

WR-187 Waveguide Pressure Window, CPR187F and CPR187G Flanges, Aluminum from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-187 Waveguide Pressure Window, CPR187F and CPR187G Flanges, Aluminum PEWGP1003](#)

URL: <https://www.pasternack.com/pewgp1003-p.aspx>

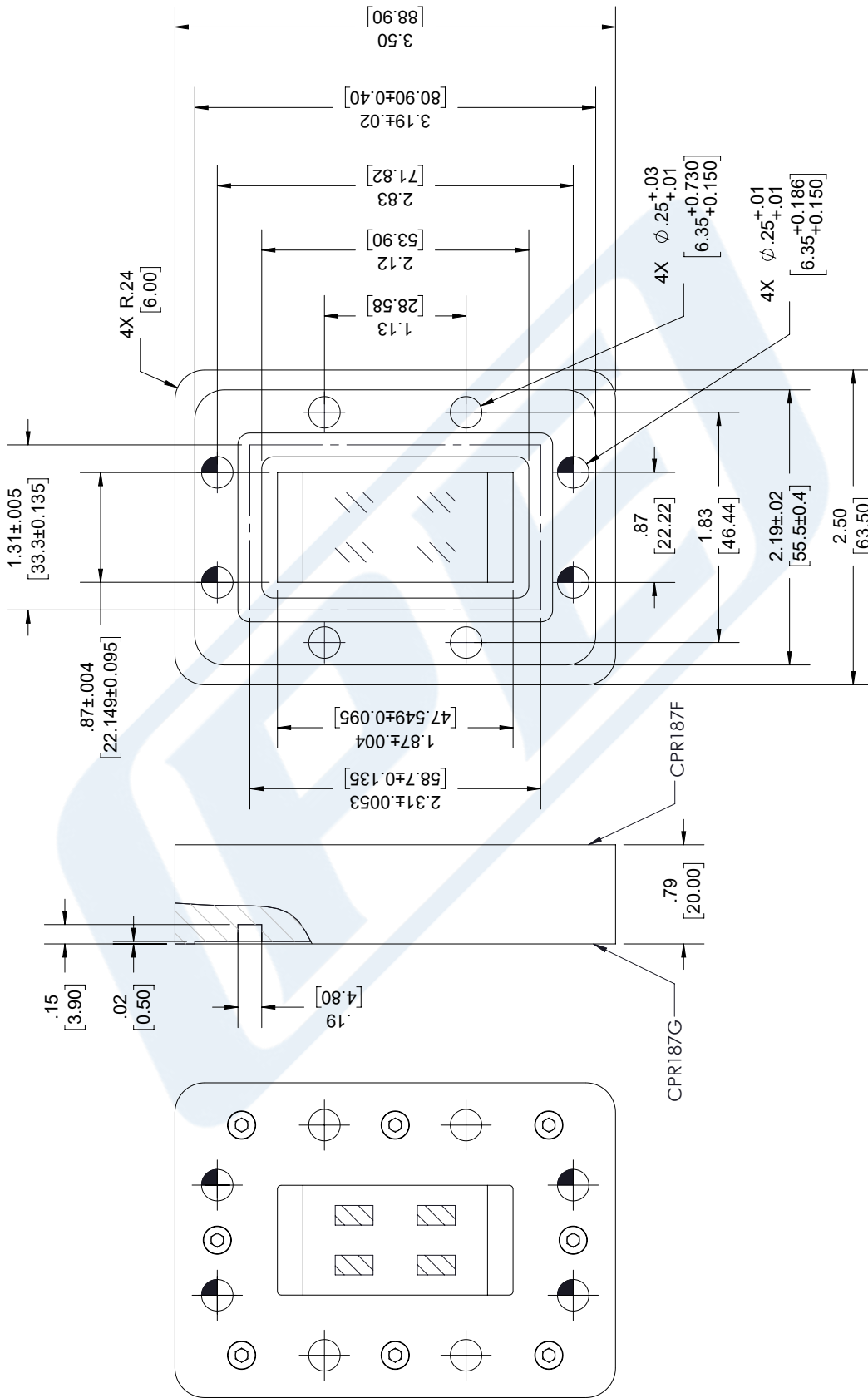
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PEWGP1003 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	15-04-2021	SPONG

PRESSURIZING DIRECTION



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
XX±.01 [.25]	±.132
XXX±.005 [.13]	±.132
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

PE PASTERNAK an INFINITI brand	
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SIZE	CAGE
A	53919
DRAWN BY	MVEERAPPAN
PART NUMBER	PEWGP1003
REV	A

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SHEET	1 OF 1
SCALE	N/A

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