



WR-90 Waveguide Pressure Window, UG-39/U and UG-39/U-Grooved Flanges, Brass

Waveguide Accessories Technical Data Sheet

PEWGP1008

Features

- WR-90 Waveguide
- Operating Frequency Range from 8.2 GHz to 12.5 GHz
- UG-39/U and UG-39/U-Grooved Flanges
- 1.25:1 Max VSWR
- 500 Watts (CW) Max Power Handling
- Insertion loss: 0.25 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 PEWGP1008 is a WR-90 waveguide pressure windows that operates in the frequency range of 8.2 GHz to 12.5 GHz. This WR-90 waveguide termination has a Max VSWR of 1.25:1. This waveguide pressure window is made of annealed copper and incorporates UG-39/U and UG-39/U-Grooved 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	8.2		12.5	GHz
VSWR			1.25:1	
Insertion Loss			0.25	dB
Input Power			500	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-90 Waveguide Pressure Window, UG-39/U and UG-39/U-Grooved Flanges, Brass PEWGP1008](#)



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Mechanical Specifications

Body Material	Copper Brass
Body Finish	Passivation
Length	1.629 in [41.38][mm]
Width	1.629 in [41.38][mm]
Height	0.787 in [19.99][mm]
Weight	0.22 lbs [99.79][g]

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

WR-90 Waveguide Pressure Window, UG-39/U and UG-39/U-Grooved Flanges, Brass 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-90 Waveguide Pressure Window, UG-39/U and UG-39/U-Grooved Flanges, Brass PEWGP1008](#)

URL: <https://www.pasternack.com/pewgp1008-p.aspx>

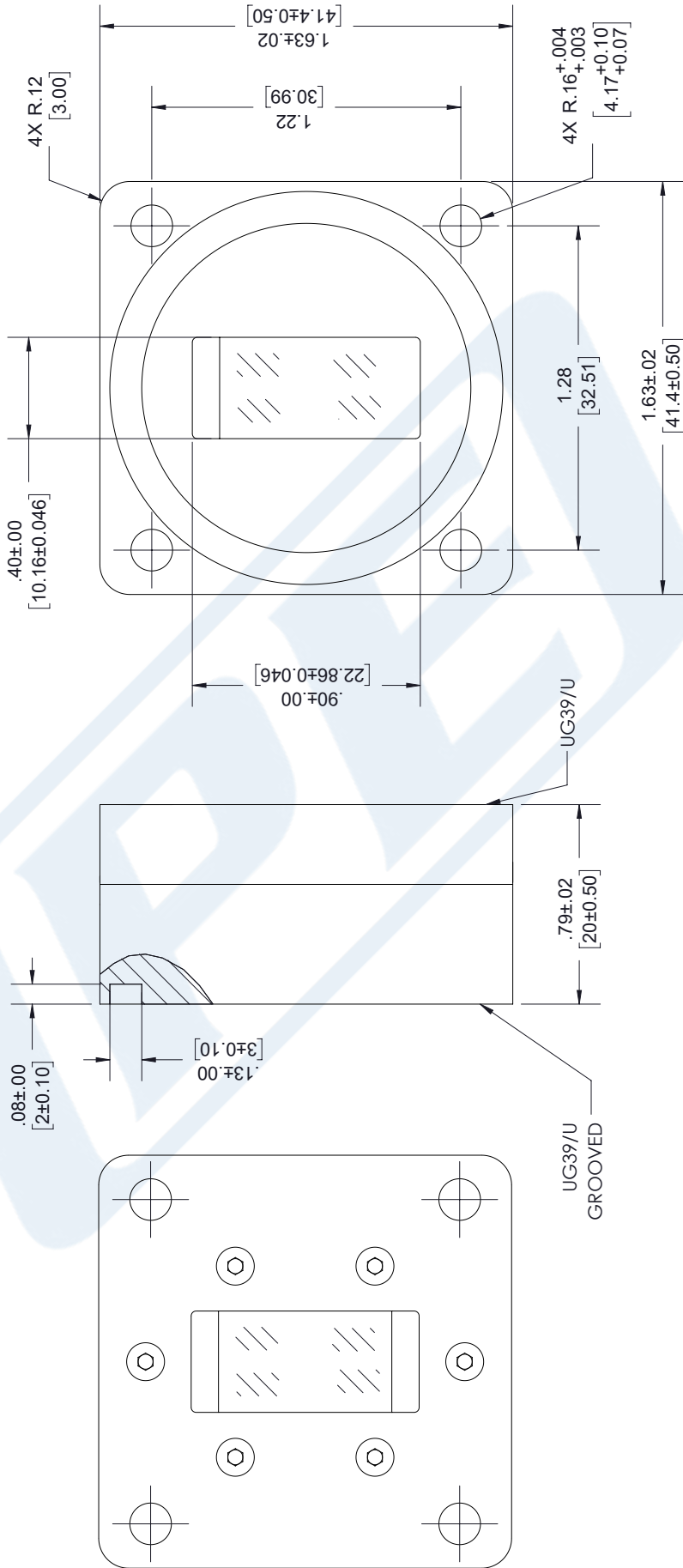
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PEWGP1008 CAD Drawing

WR-90 Waveguide Pressure Window, UG-39/U and UG-39/U-Grooved Flanges, Brass

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]	XX±.01 [.25]
XXX±.005 [.13]	ANGLES ± 1°
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

PE PASTERNAK an INFINITO brand	
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SIZE	CAGE
A	53919
DRAWN BY	PART NUMBER
MVEERAPPAN	PEWGP1008
REV	A

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SHEET	OF
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SCALE	N/A

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