



## 0.6 Watts Low Power Instrumentation Grade WR-12 Waveguide Load 60 GHz to 90 GHz

### Waveguide Terminations Technical Data Sheet

PE-W12TR1001

#### Features

- WR-12
- 60 to 90 GHz
- UG-387/U Flange
- 1.20:1 Maximum VSWR
- 0.6 Watts Average Power Handling

#### Applications

- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production Systems

#### Description

The PE-W12TR1001 is a waveguide termination (load) that is part of a family of high performance loads with round flange per MIL-DTL-85. They are designed so that virtually all the applied power is absorbed, thus assuring a low VSWR. These standard terminations, offered in the Ka through W waveguide bands can dissipate 0.4 to 6 Watts of power depending on the specific band.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	60		90	GHz
VSWR			1.2:1	
Input Power (CW)			0.6	Watts

#### Mechanical Specifications

##### Size

Length	1.5 in [38.1 mm]
Weight	0.043 lbs [19.5 g]

Description	Flange	Waveguide
Designation	UG-387/U	WR-12
Type	Round Cover	
Material	Brass	Brass
Plating	Gold	Gold
Plating Specification	ASTMB488	ASTMB488

Mechanical Specification Notes:  
ASTMB488

#### Environmental Specifications

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0.6 Watts Low Power Instrumentation Grade WR-12 Waveguide Load 60 GHz to 90 GHz PE-W12TR1001](#)



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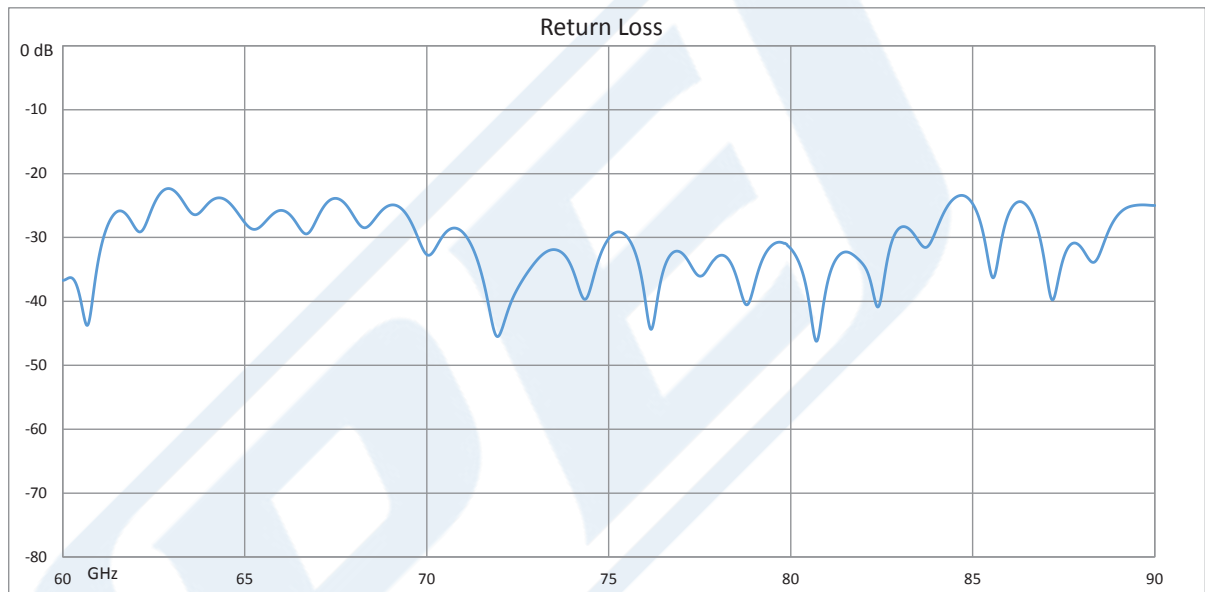
PE-W12TR1001

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**



0.6 Watts Low Power Instrumentation Grade WR-12 Waveguide Load 60 GHz to 90 GHz 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.

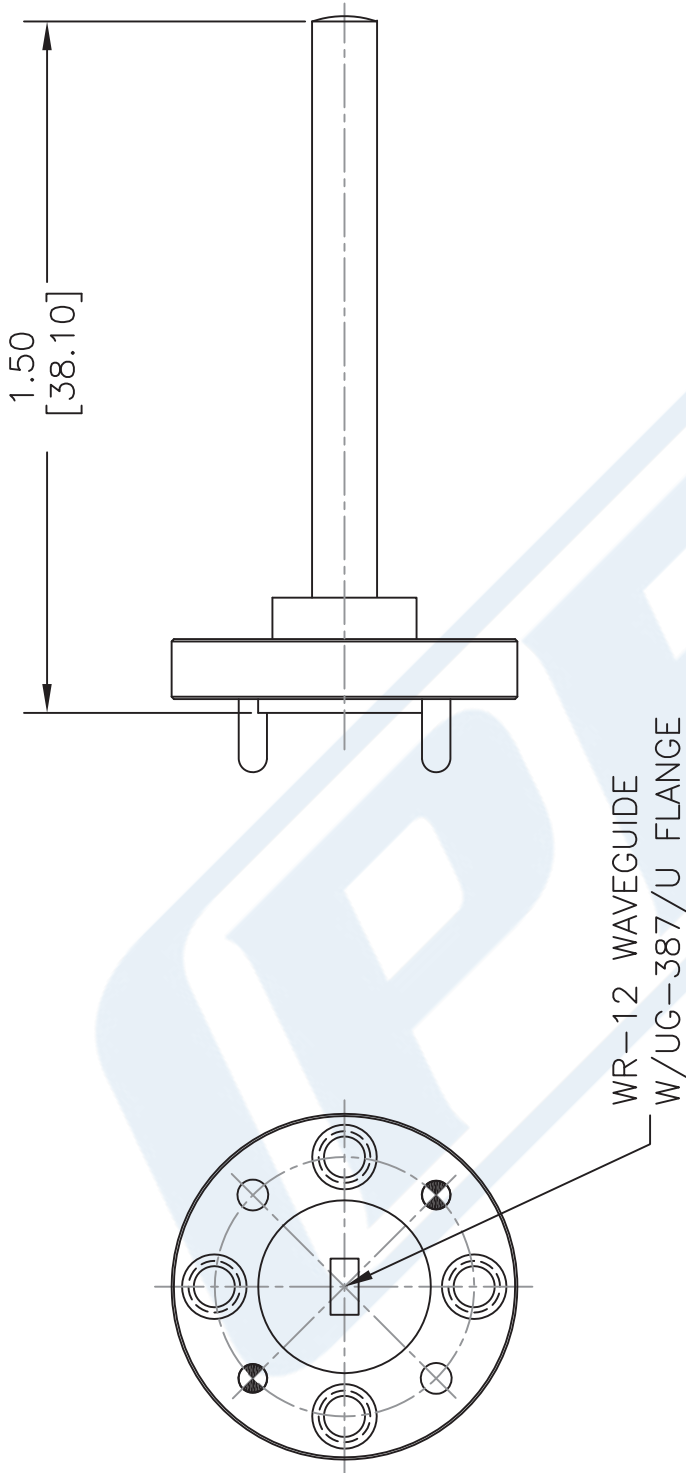
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URL: <https://www.pasternack.com/0.6-watts-wr-12-feed-thru-load-60-90-ghz-pe-w12tr1001-p.aspx>

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.

# PE-W12TR1001 CAD Drawing

0.6 Watts Low Power Instrumentation Grade WR-12 Waveguide Load 60 GHz to 90 GHz



UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN: inches  
 TOLERANCES ARE: [mm]  
 .XX ± .10 [± 2.54]  
 .XXX ± .005 [± .127]

\* THESE DIMENSIONS AND TOLERANCES  
 SUPERSEDE NOTE #1 ON TITLE BLOCK.

DWG TITLE  
**PE-W12TR1001**

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES [mm].

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FSCM NO. 53919

CAD FILE 121515 SCALE N/A SIZE A 2233