

## WR-12 Waveguide Isolator from 60 GHz to 90 GHz, 25 dB min Isolation, UG-387/U Round Cover Flange



Microwave Radio Systems

## Waveguide Isolators Technical Data Sheet

**PEWIR1001** 

### **Features**

- · Waveguide Faraday Isolator
- WR-12
- Full E Band Frequency Range 60 to 90 GHz
- UG-387/U Round Cover Flange
- 1.5:1 VSWR

## **Applications**

- · Radar Systems
- Military
- · Wireless Radio Systems
- · Telecom Infrastructure
- R&D Labs

## Communication Systems

### Description

The PEWIR1001 is a Waveguide Faraday Isolator offering 25 dB minimum isolation over the full E band frequency range of 60 to 90 GHz. In a conventional isolator design, three or four parts would be needed to cover the full WR-12 band to achieve this level of isolation. The Faraday design achieves high isolation with wide band performance. This gold plated WR-12 waveguide component uses UG-387/U round cover flanges on all ports and has a power rating of 1 watt in the forward direction.

Pasternack Enterprises offers a wide variety of isolators and Wavequide Isolators to fit your needs. These are two-port devices that transmit microwave or radio frequency power in one direction only and block the signal in the opposite direction. They can be thought of as a diode for RF energy. Isolators are used to isolate equipment from the effects of conditions outside of the equipment. For instance they are used to prevent a microwave source being detuned by a mismatched load. Pasternack's waveguide isolators feature excellent insertion loss, full WR band high isolation and reliability.

#### **Electrical Specifications**

Minimum	Typical	Maximum	Units
60		90	GHz
		2	dB
25	30		dB
		1.5:1	
		1	Watts
	60	60	60 90 2 25 30

#### **Mechanical Specifications**

Size

Length 2.5 in [63.5 mm] Height 0.94 in [23.88 mm]

Configuration

Design **Faraday** Waveguide Size WR-12 UG-387/U Flange Designation Flange Type Round Cover

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-12 Waveguide Isolator from 60 GHz to 90 GHz, 25 dB min Isolation, UG-387/U Round Cover Flange PEWIR1001

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com

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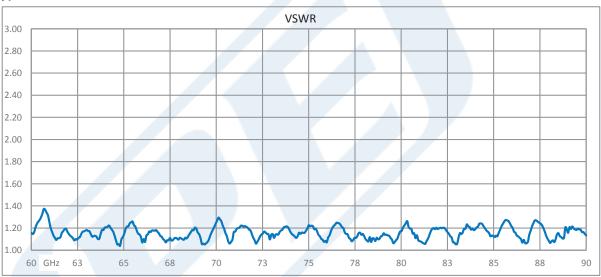
### **Environmental Specifications**

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

#### **Typical Performance Data**



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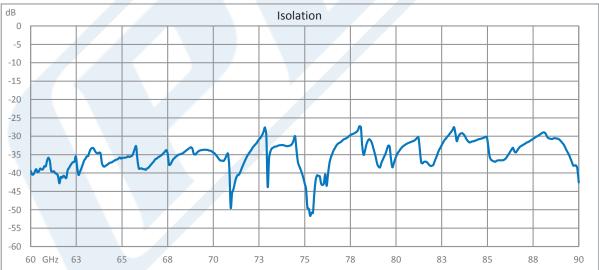
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WR-12 Waveguide Isolator from 60 GHz to 90 GHz, 25 dB min Isolation, UG-387/U Round Cover Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/wr-12-waveguide-isolator-90-ghz-25-db-ug387-pewir1001-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.

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## **PEWIR1001 CAD Drawing**

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