

WR-15 Waveguide Isolator from 50 GHz to 75 GHz, 25 dB min Isolation, UG-385/U Round Cover Flange



Waveguide Isolators Technical Data Sheet

PEWIR1002

Features

- · Waveguide Faraday Isolator
- WR-15
- Full V Band Frequency Range 50 to 75 GHz
- UG-385/U Round Cover Flange
- 1.4:1 VSWR

Applications

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

Microwave Radio Systems

Description

The PEWIR1002 is a Waveguide Faraday Isolator offering 25 dB minimum isolation over the full V band frequency range of 50 to 75 GHz. In a conventional isolator design, three or four parts would be needed to cover the full WR-15 band to achieve this level of isolation. The Faraday design achieves high isolation with wide band performance. This gold plated WR-15 waveguide component uses UG-385/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 Waveguide 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
50		75	GHz
		1.8	dB
25	30		dB
		1.4:1	
		1	Watts
	50	50	50 75 1.8 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-15
Flange Designation UG-385/U
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-15 Waveguide Isolator from 50 GHz to 75 GHz, 25 dB min Isolation, UG-385/U Round Cover Flange PEWIR1002

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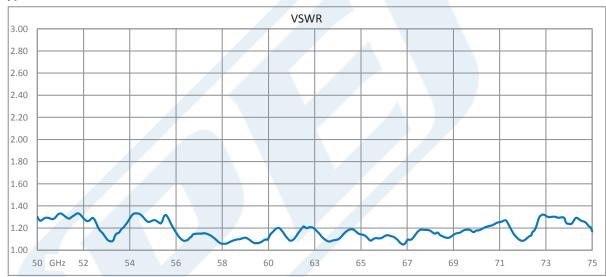
Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

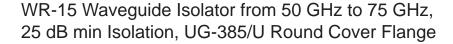


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ISO 9001: 2008 Registered



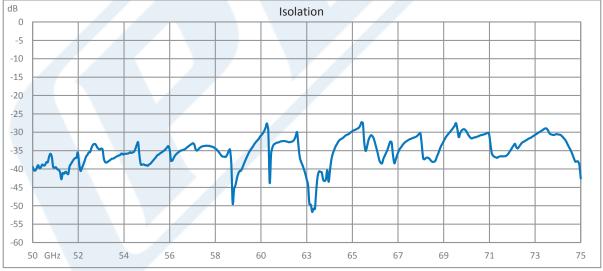




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WR-15 Waveguide Isolator from 50 GHz to 75 GHz, 25 dB min Isolation, UG-385/U Round Cover Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/wr-15-waveguide-isolator-75-ghz-25-db-ug385-pewir1002-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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PEWIR1002 CAD Drawing

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