

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



PEWIR1002

Waveguide Isolators Technical Data Sheet

Features

• Waveguide Faraday Isolator

• Wireless Radio Systems

- WR-15
- Full V Band Frequency Range 50 to 75 GHz

Applications

Military

Radar Systems

- Telecom Infrastructure
- Communication SystemsR&D Labs
- Microwave Radio Systems

UG-385/U Round Cover Flange

1.4:1 VSWR

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

Description	Minimum	Typical	Maximum	Units
Frequency Range	50		75	GHz
Insertion Loss			1.8	dB
Isolation	25	30		dB
VSWR			1.4:1	
Forward Power (CW)			1	Watts

Mechanical Specifications

Size Length Height

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

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

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

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Configuration Design Waveguide Size Flange Designation Flange Type

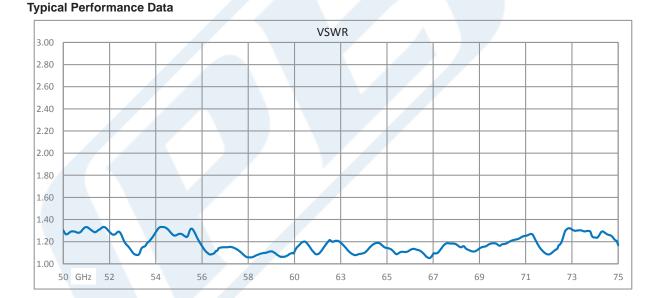
Faraday WR-15 UG-385/U Round Cover

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



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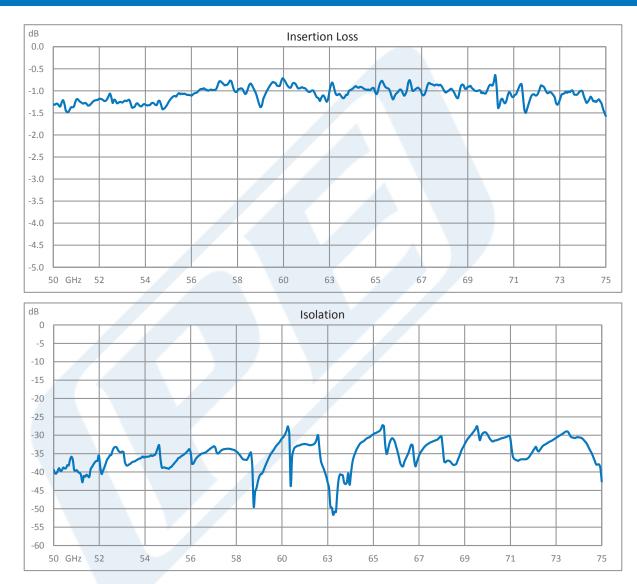
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WR-15 Waveguide Isolator from 50 GHz to 75 GHz, 25 dB min Isolation, UG-385/U Round Cover Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4%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

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PEWIR1002 CAD Drawing

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

