



WR-22 Waveguide Isolator with 25 dB min Isolation from 33 GHz to 50 GHz using Round Cover UG-383/U Flange

The FMWIR1004 is a Waveguide Faraday Isolator offering 25 dB minimum isolation over the full Q band frequency range of 33 to 50 GHz. In a conventional isolator design, three or four parts would be needed to cover the full WR-22 band to achieve this level of isolation. The Faraday design achieves high isolation with wide band performance. This gold plated WR-22 waveguide component uses UG-383/U round cover flanges on all ports and has a power rating of 1 watt in the forward direction.

Fairview Microwave 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. Fairview Microwave's waveguide isolators feature excellent insertion loss, full WR band high isolation and reliability.



Description	Min	Тур	Max	Units
Frequency Range	33		50	GHz
Insertion Loss			1.5	dB
Isolation	25	30		dB
VSWR			1.4:1	
Forward Power, CW			1	Watts



Features:

- Waveguide Faraday Isolator
- WR-22
- Full Q Band Frequency Range 33 to 50 GHz
- UG-383/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

Mechanical Specifications

Size

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

Configuration

Design Faraday
Waveguide Size WR-22
Flange Designation UG-383/U
Flange Type Round Cover

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

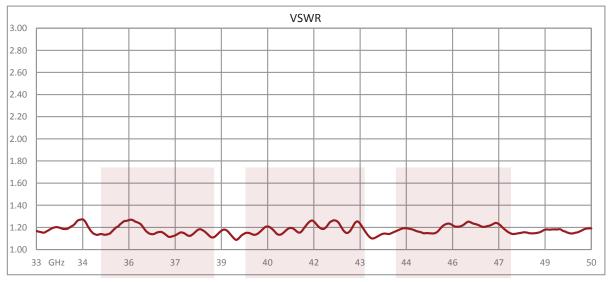
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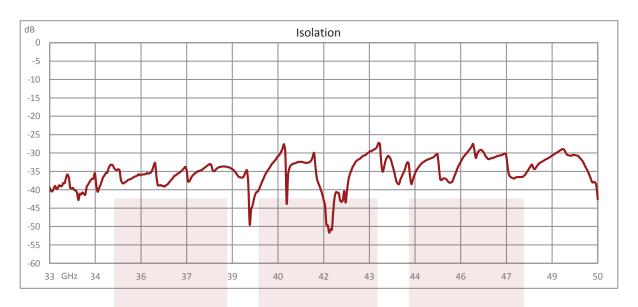


Typical Performance Data









WR-22 Waveguide Isolator with 25 dB min Isolation from 33 GHz to 50 GHz using Round Cover UG-383/U Flange from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

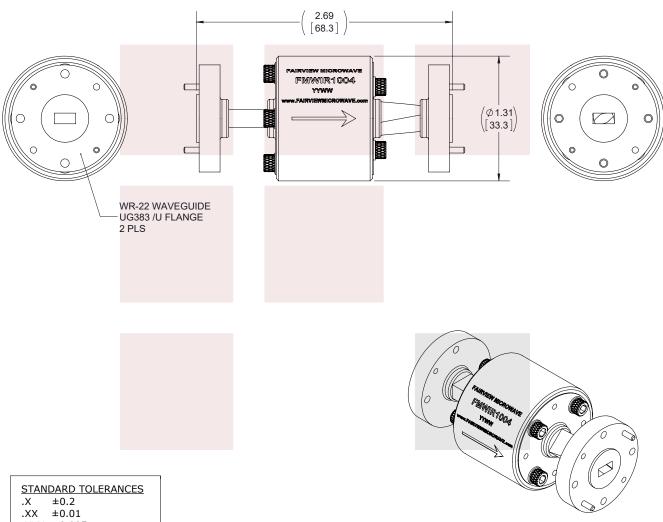
For additional information on this product, please click the following link: WR-22 Waveguide Isolator with 25 dB min Isolation from 33 GHz to 50 GHz using Round Cover UG-383/U Flange FMWIR1004

URL: https://www.fairviewmicrowave.com/wr-22-waveguide-isolator-25-db-50-ghz-ug383-fmwir1004-p.aspx

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*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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WR-22 Waveguide Isolator with 25 dB min Isolation from 33 GHz to 50 GHz using Round Cover UG-383/U Flange	DWG NO FMWIR1004			CAGE CODE 3FKR5			
	CAD FILE 100517	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361	