



Waveguide Isolators Technical Data Sheet

PEWIR1006

Features

- · Waveguide Isolator
- WR-112
- Full H Band Frequency Range 7.05 to 10 GHz
- Mates with UG-138/U Cover Flange
- 1.3:1 VSWR
- 18 dB isolation across the full band

Applications

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

Microwave Radio Systems

Description

The PEWIR1006 is a Waveguide Isolatorr offering 18 dB minimum isolation over the full H band frequency range of 7.05 to 10 GHz. The design achieves high isolation with wide band performance and the WR-112 waveguide uses UG-138/U compatible cover flanges on all ports and has a power rating of 20 watts forward (CW).

Pasternack 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
requency Range	7.05		10	GHz
Circulator				
VSWR		1.3:1		
Insertion Loss		0.4		dB
Isolation		18		dB
Forward Power (CW)			20	Watts
Input Power (Peak)			10	KWatts
Termination				
VSWR			1.05:1	
Input Power (CW)			2	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-112 Waveguide Isolator from 7.05 GHz to 10 GHz, 18 dB Typical Isolation, UG-138/U Cover Flange PEWIR1006

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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Mechanical Specifications Size

Configuration

Waveguide Size WR-112
Flange Designation UG-138/U
Flange Type Cover
Body Material and Plating Aluminum

Environmental Specifications

Temperature

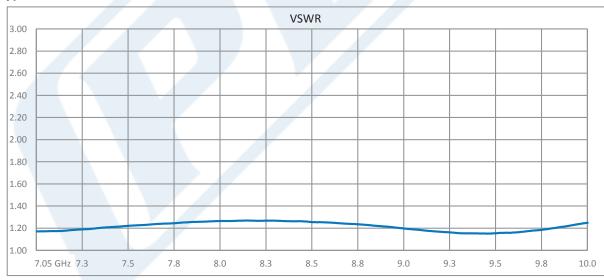
Operating Range -10 to 65 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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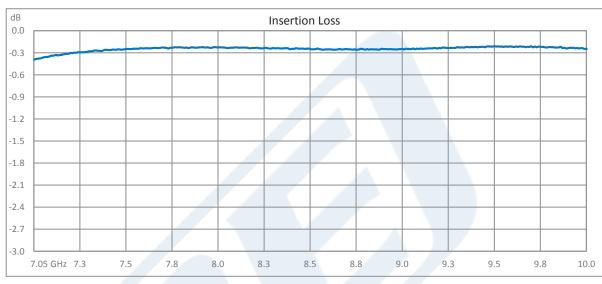
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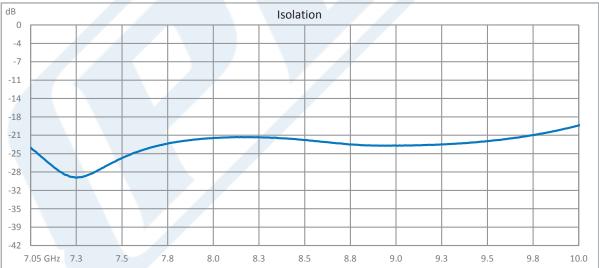




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WR-112 Waveguide Isolator from 7.05 GHz to 10 GHz, 18 dB Typical Isolation, UG-138/U Cover Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/wr112-waveguide-isolator-10ghz-18db-ug138-pewir1006-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.

PEWIR1006 CAD Drawing

WR-112 Waveguide Isolator from 7.05 GHz to 10 GHz, 18 dB Typical Isolation, UG-138/U Cover Flange

