PASTERNACK®
THE ENGINEER'S RF SOURCE



High Power Isolator With 16 dB Isolation From 8 GHz to 18 GHz, 50 Watts And SMA Female

Features

- Forward Power 50 watts
- Frequency Range of 8 to 18 GHz
- Female SMA Connectors
- Low VSWR

Applications

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

Description

The PE83IR1010A is a high power isolator offering a forward power rating of 50 watts over an operational frequency band of 8 to 18 GHz. This coaxial part uses SMA female connectors on all ports and has a minimum of 16 dB of isolation.

Pasternack Enterprises offers a wide variety of 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 isolators feature excellent insertion loss, high isolation and reliability.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8		18	GHz
Impedance		50		Ohms
Insertion Loss			0.6	dB
Isolation	16			dB
VSWR			1.45:1	
Forward Power, CW			50	Watts
Reverse Power, CW			10	Watts

Mechanical Specifications

Size

Length	0.5 in [12.7 mm]
Width	0.56 in [14.22 mm]
Height	0.68 in [17.27 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: High Power Isolator With 16 dB Isolation From 8 GHz to 18 GHz, 50 Watts And SMA Female PE83IR1010A

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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Isolators Technical Data Sheet PE83IR1010A

Configuration

Design	Single Junction
Direction	Clockwise
Package Style	Connectorized
Connector 1	SMA Female
Connector 2	SMA Female

Environmental Specifications

Temperature

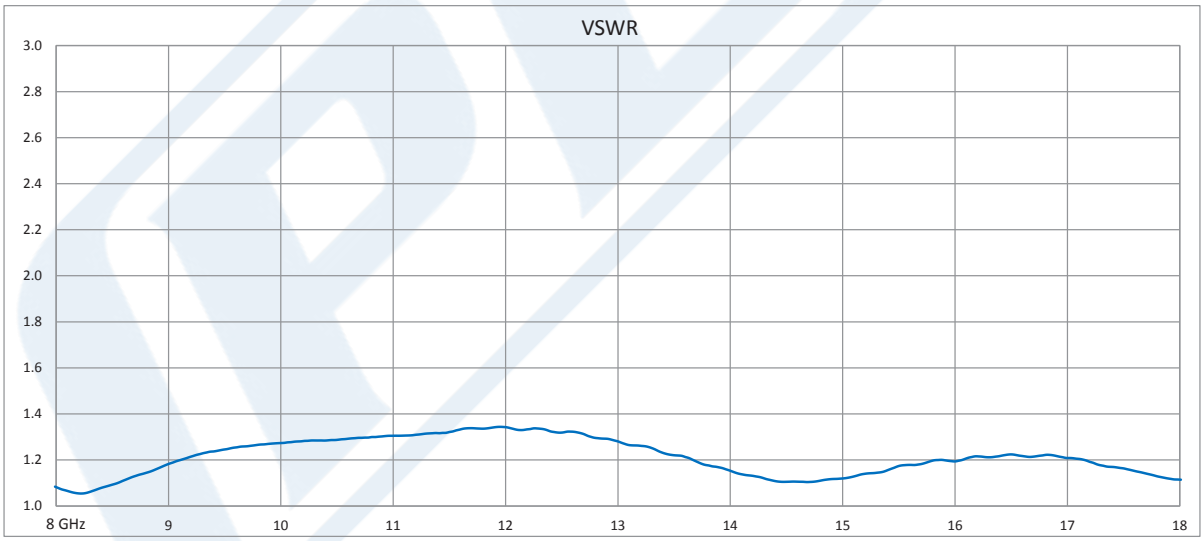
Operating Range	+0 to +70 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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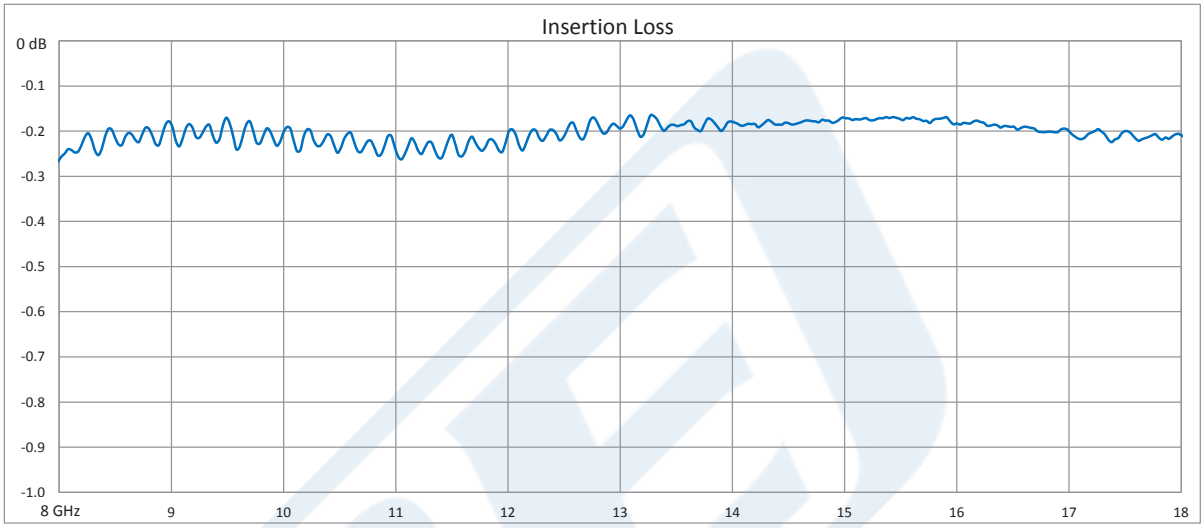
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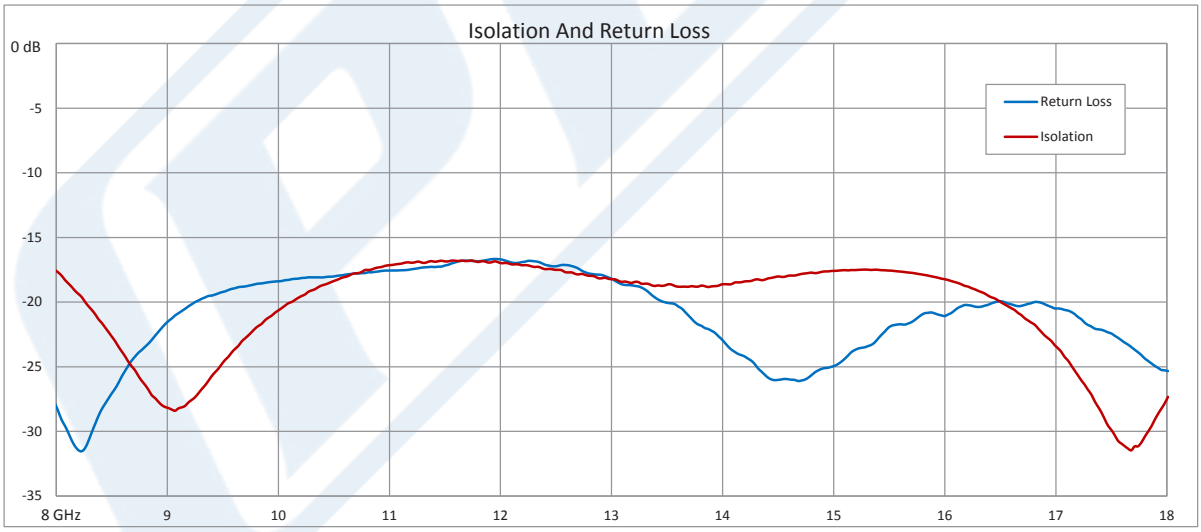
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Isolators Technical Data Sheet PE83IR1010A





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Isolators Technical Data Sheet PE83IR1010A

High Power Isolator With 16 dB Isolation From 8 GHz to 18 GHz, 50 Watts And SMA Female from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/high-power-isolator-16db-isolation-18-ghz-50-watts-sma-female-pe83ir1010a-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.

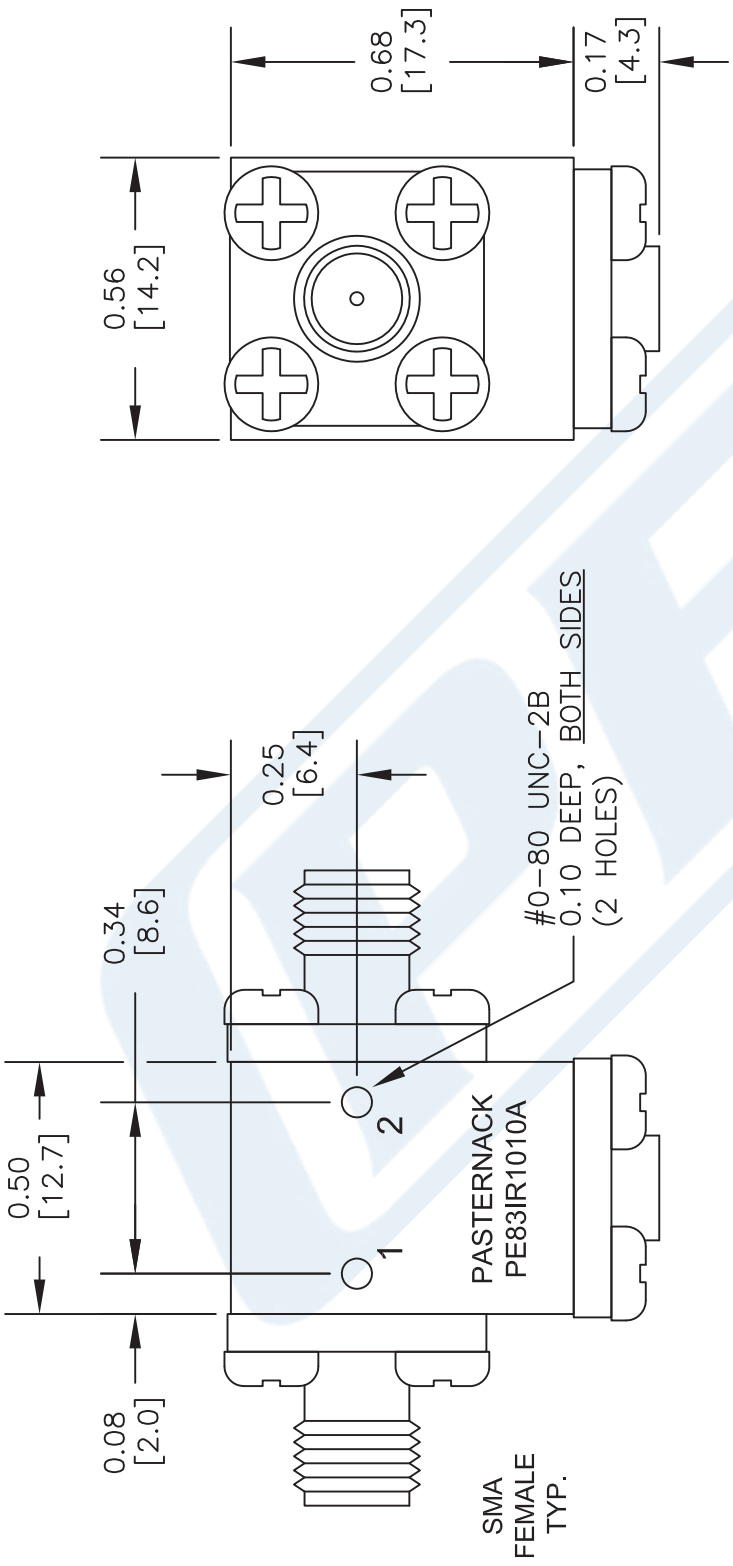
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PE83IR1010A CAD Drawing

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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE: PE83IR1010A

CAGE CODE 53919 | CAD FILE 121316 | SCALE N/A | SIZE A | 2233

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