

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



Isolators Technical Data Sheet PE83IR1010

R&D Labs

Features

- Forward Power 50 watts
- Frequency Range of 8 to 18 GHz

Applications

- Radar Systems
- Military
- Wireless Radio Systems

- Female SMA Connectors
- Low VSWR
- Telecom InfrastructureCommunication Systems
- Microwave Radio Systems

Description

The PE83IR1010 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

C:---

Size	
Length	0.5 in [12.7 mm]
Width	0.56 in [14.22 mm]
Height	0.68 in [17.27 mm]
Weight	0.05 lbs [22.68 g]

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 PE83IR1010

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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Configuration Design Direction Package Style Connector 1 Connector 2

Single Junction Clockwise Connectorized SMA Female 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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0 dB -0.1 -0.2 -0.3 -0.4 -0.5 -0.6 -0.7 -0.8 -0.9 -1.0

0 dB

-5

-10

-15

-20

-25

-30

-35

8 GHz 10 11 12 14 15 16 17 9 13 18 Isolation And Return Loss Return Loss Isolation 8 GHz 10 11 12 13 14 15 16 17 18

Insertion Loss

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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-pe83ir1010-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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PE83IR1010 CAD Drawing

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