



Isolators Technical Data Sheet

PE83IR1010A

Features

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

- VSWR 1.45:1
- Isolation 16 dB

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 |
| Reverse Power, CW | | | 10 | |

Mechanical Specifications

Size

 Length
 0.5 in [12.7 mm]

 Width
 0.56 in [14.22 mm]

 Height
 0.68 in [17.27 mm]

 Weight
 0.0436 lbs [19.78 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 SMA Female with 16 dB Isolation from 8 GHz to 18 GHz Rated to 50 Watts 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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Configuration

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

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



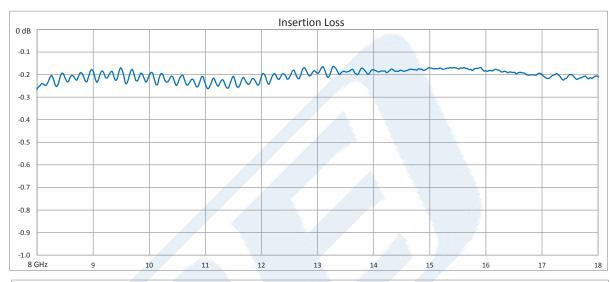
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High Power Isolator SMA Female with 16 dB Isolation from 8 GHz to 18 GHz Rated to 50 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/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

High Power Isolator SMA Female with 16 dB Isolation from 8 GHz to 18 GHz Rated to 50 Watts

