

High Power Isolator With 20 dB Isolation From 7 GHz to 12.4 GHz, 50 Watts And SMA Female



Isolators Technical Data Sheet

PE83IR1008

Features

- Forward 50 watts
- Reverse 25 watts
- Frequency Range of 7 to 12.4 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 PE83IR1008 is a high power isolator offering a forward of 50 watts and 25 watts reverse power rating over an operational frequency band of 7 to 12.4 GHz. This coaxial part uses SMA female connectors on all ports and has a minimum of 20 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	7		12.4	GHz
Impedance		50		Ohms
Insertion Loss			0.6	dB
Isolation	20			dB
VSWR			1.25:1	
Forward Power, CW			50	Watts
Reverse Power, CW			25	Watts

Mechanical Specifications

Size

 Length
 1 in [25.4 mm]

 Width
 0.63 in [16 mm]

 Height
 1 in [25.4 mm]

 Weight
 0.1 lbs [45.36 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 20 dB Isolation From 7 GHz to 12.4 GHz, 50 Watts And SMA Female PE83IR1008

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

Temperature

Operating Range +0 to +50 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

High Power Isolator With 20 dB Isolation From 7 GHz to 12.4 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 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/high-power-isolator-20db-isolation-12.4-ghz-50-watts-sma-female-pe83ir1008-p.aspx

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PE83IR1008 CAD Drawing

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