



Isolators Technical Data Sheet

PE83IR1040

Features

- · Forward Power 30 watts
- · Wide-Band Operating of 4 to 8 GHz
- · Female SMA Connectors

- Low VSWR of 1.35:1 Max
- · Low Insertion Loss of 0.5 dB Max
- · Good Isolation Performance of 19 dB Minimum

Applications

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

Microwave Radio Systems

Description

The PE83IR1040 is an RF isolator offering a forward power rating of 30 watts over an operational frequency band of 4 to 8 GHz. This coaxial part uses SMA female connectors on all ports and has a minimum of 19 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	4		8	GHz
Impedance		50		Ohms
Insertion Loss			0.5	dB
Isolation	19			dB
VSWR			1.35:1	
Forward Power, CW			30	Watts

Mechanical Specifications

 Size

 Length
 0.59 in [14.99 mm]

 Width
 0.71 in [18.03 mm]

 Height
 0.91 in [23.11 mm]

 Weight
 0.066 lbs [29.94 g]

 Body Material and Plating
 Aluminum, Nickel

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Isolator with 19 dB Isolation from 4 GHz to 8 GHz, 30 Watts and SMA Female PE83IR1040







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Configuration

Direction Clockwise
Connector 1 SMA Female
Connector 2 SMA Female

Environmental Specifications

Temperature

Operating Range -20 to +70 deg C Storage Range -40 to +85 deg C

Humidity 100% RH at 35°c, 95%RH at 40°c

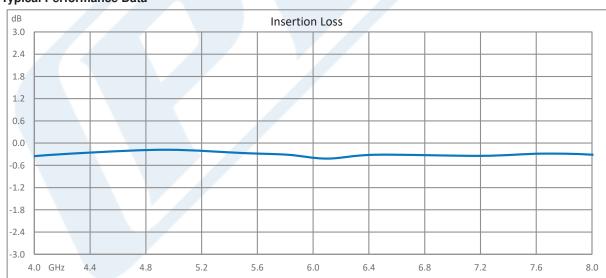
Shock 20G for 11msec half sine wave,3 axis both directions
Vibration 25gRMS (15 degrees 2KHz) endurance, 1 hour per axis
Altitude 30,000 ft. (Epoxy Sealed Controlled environment)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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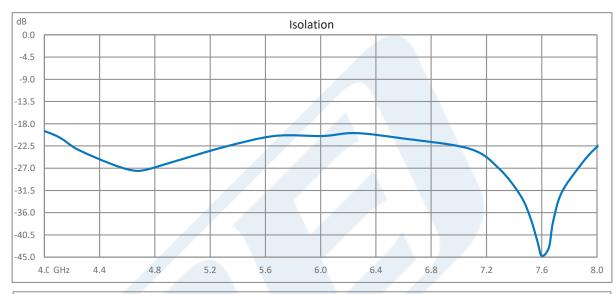


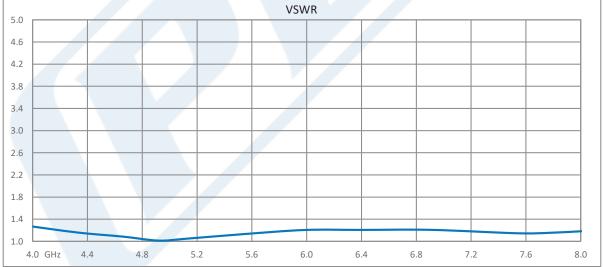




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Isolator with 19 dB Isolation from 4 GHz to 8 GHz, 30 Watts and SMA Female from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/isolator-19db-isolation-8-ghz-30-watts-sma-female-pe83ir1040-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.



PE83IR1040 CAD Drawing

Isolator with 19 dB Isolation from 4 GHz to 8 GHz, 30 Watts and SMA Female

