

Isolator with 10 dB Isolation from 6 GHz to 18 GHz, 10 Watts and SMA Female

PE83IR1029

Features

- · Forward Power 10 watts
- Wide-Band Operating of 6 to 18 GHz
- · Female SMA Connectors

Applications

- · Radar Systems
- Military
- · Wireless Radio Systems
- Telecom Infrastructure

- Low VSWR of 1.60:1 Max
- · Low Insertion Loss of 1.5 dB Max
- Good Isolation Performance of 10 dB Minimum
- · Communication Systems
- R&D Labs
- · Microwave Radio Systems

Description

The PE83IR1029 is an RF isolator offering a forward power rating of 10 watts over an operational frequency band of 6 to 18 GHz. This coaxial part uses SMA female connectors on all ports and has a minimum of 10 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	Min	Тур	Max	Units
Frequency Range	6		18	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Isolation	10			dB
VSWR			1.6:1	
Forward Power, CW			10	Watts

Mechanical Specifications

 Length
 0.78 in [19.81 mm]

 Width
 0.49 in [12.45 mm]

 Height
 0.35 in [8.89 mm]

 Weight
 0.025 lbs [11.34 g]

 Body Material and Plating
 Aluminum, Nickel

Configuration

DesignSingle JunctionDirectionClockwiseConnector 1SMA FemaleConnector 2SMA Female



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Environmental Specifications

Temperature Operating Range Storage Range Humidity Shock

Vibration Altitude

-40 to +70 deg C -40 to +85 deg C 100% RH at 35°c, 95%RH at 40°c 20G for 11msec half sine wave,3 axis both directions 25gRMS (15 degrees 2KHz) endurance, 1 hour per axis 30,000 ft. (Epoxy Sealed Controlled environment)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

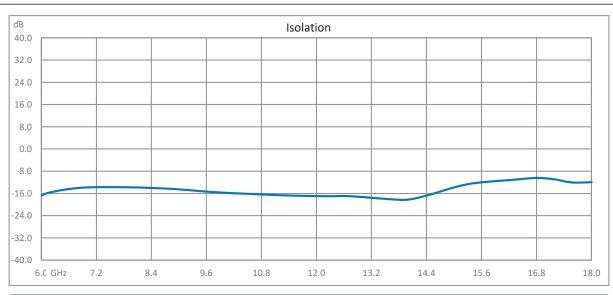
Typical Performance Data

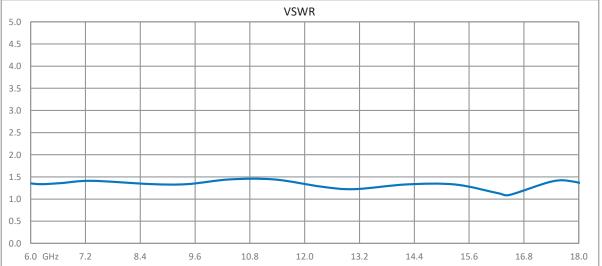




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Isolator with 10 dB Isolation from 6 GHz to 18 GHz, 10 Watts and SMA Female from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Isolator with 10 dB Isolation from 6 GHz to 18 GHz, 10 Watts and SMA Female PE83IR1029

URL: https://www.pasternack.com/isolator-10db-isolation-18-ghz-10-watts-sma-female-pe83ir1029-p.aspx

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