

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



FMIR1029

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 FMIR1029 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.

Fairview Microwave 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. Fairview'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

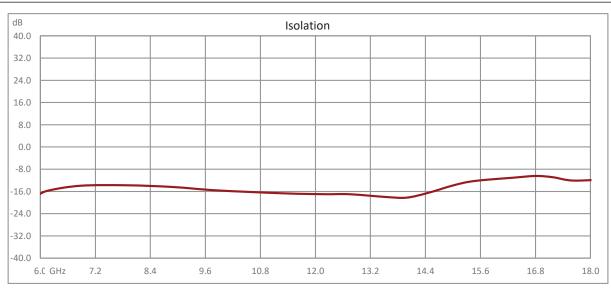


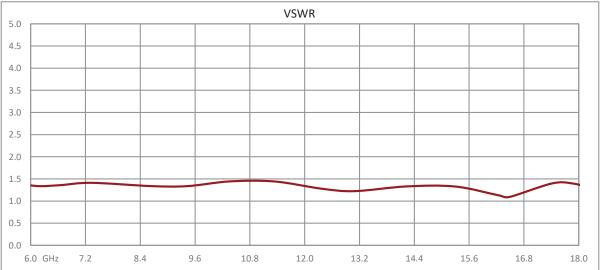


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Isolator SMA Female with 10 dB Isolation from 6 GHz to 18 GHz Rated to 10 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Isolator SMA Female with 10 dB Isolation from 6 GHz to 18 GHz Rated to 10 Watts FMIR1029

URL: https://www.fairviewmicrowave.com/isolator-sma-female-10db-isolation-18-ghz-10-watts-fmir1029-p.aspx

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FMIR1029 CAD Drawing

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