



Isolator SMA Male with 20 dB Isolation from 8 GHz to 12 GHz Rated to 10 Watts

The FMIR1027 is an RF isolator offering a forward power rating of 10 watts over an operational frequency band of 8 to 12 GHz. This coaxial part uses SMA male connectors on all ports and has a minimum of 20 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	8		12	GHz
Impedance		50		Ohms
Insertion Loss			0.5	dB
Isolation	20			dB
VSWR			1.35:1	
Forward Power, CW			10	Watts

Mechanical Specifications

 Size

 Length
 0.47 in [11.94 mm]

 Width
 0.47 in [11.94 mm]

 Height
 0.67 in [17.02 mm]

 Weight
 0.044 lbs [19.96 g]

 Body Material and Plating
 Aluminum, Nickel

Configuration

Direction Clockwise
Connector 1 SMA Male
Connector 2 SMA Male

Environmental Specifications

Temperature

Operating Range -40 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 25qRMS (15 degrees 2KHz) endurance,

1 hour per axis

Altitude 30,000 ft. (Epoxy Sealed Controlled en-

vironment)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- Forward Power 10 watts
- Wide-Band Operating of 8 to 12 GHz
- Male SMA Connectors
- Low VSWR of 1.35:1 Max
- Low Insertion Loss of 0.5 dB Max
- Good Isolation Performance of 20 dB Minimum

Applications:

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

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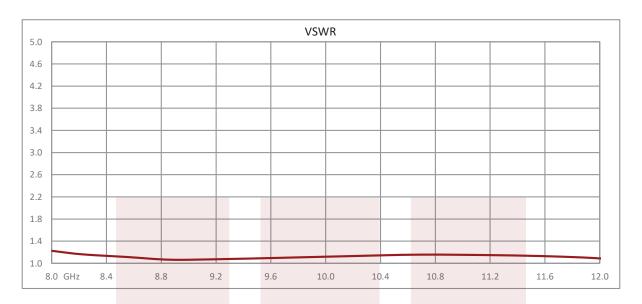
Typical Performance Data











Isolator SMA Male with 20 dB Isolation from 8 GHz to 12 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 Male with 20 dB Isolation from 8 GHz to 12 GHz Rated to 10 Watts FMIR1027

URL: https://www.fairviewmicrowave.com/isolator-sma-male-20db-isolation-12-ghz-10-watts-fmir1027-p.aspx

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