

High Power Isolator SMA Female with 19 dB Isolation from 4 GHz to 8 GHz Rated to 30 Watts

The FMIR1040 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.

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	Typ	Max	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

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:



Features:

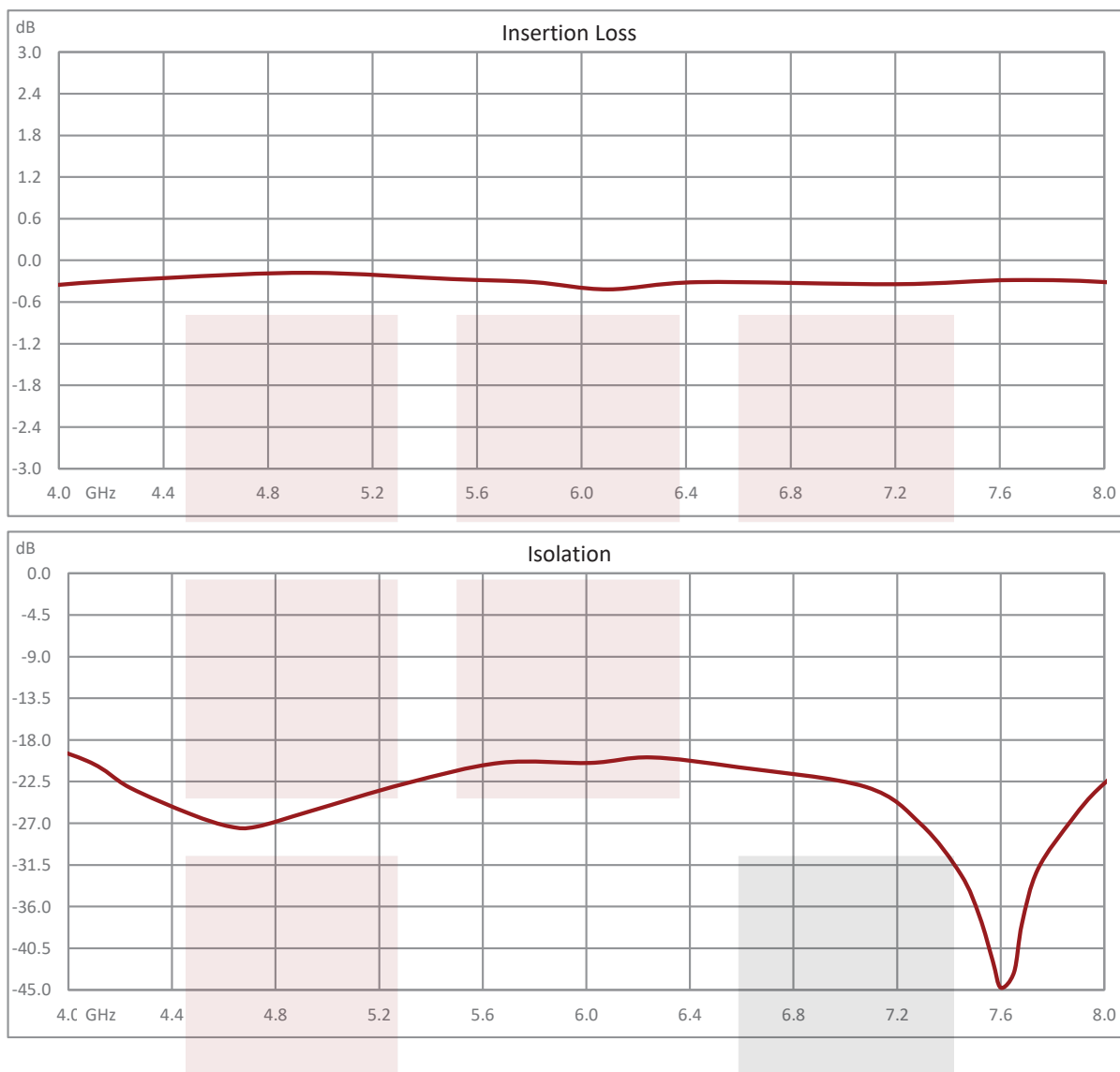
- Forward Power 30 watts
- Wide-Band Operating of 4 to 8 GHz
- Female SMA Connectors
- Low VSWR of 1.35:1 Max
- Low Insertion Loss of 0.5 dB Max
- Good Isolation Performance of 19 dB Minimum

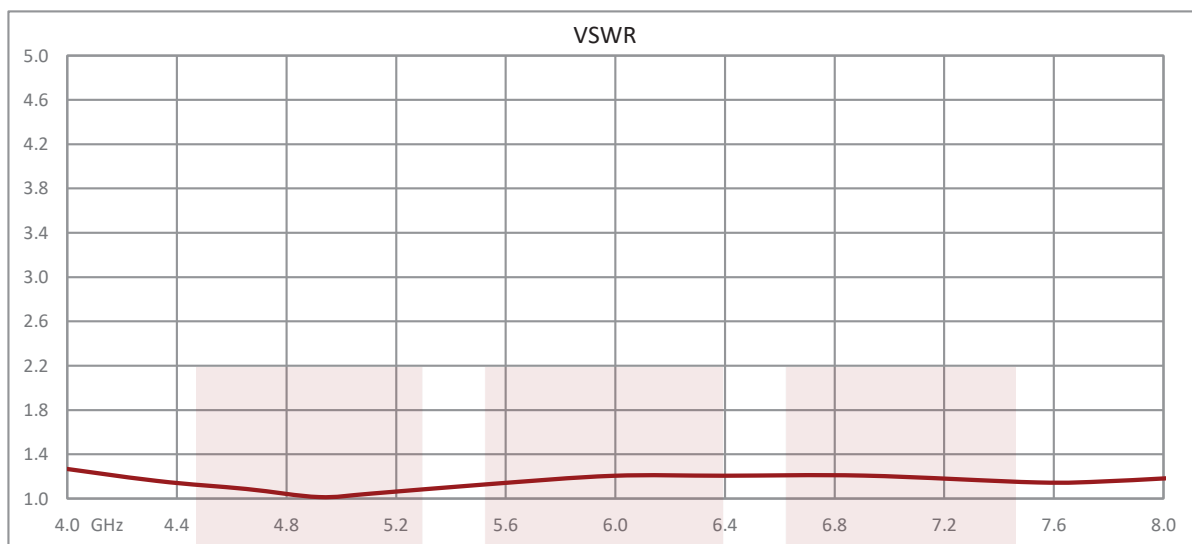
Applications:

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

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Typical Performance Data





High Power Isolator SMA Female with 19 dB Isolation from 4 GHz to 8 GHz Rated to 30 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: [High Power Isolator SMA Female with 19 dB Isolation from 4 GHz to 8 GHz Rated to 30 Watts FMIR1040](https://www.fairviewmicrowave.com/high-power-isolator-sma-female-19db-isolation-8-ghz-30-watts-fmir1040-p.aspx)

URL: <https://www.fairviewmicrowave.com/high-power-isolator-sma-female-19db-isolation-8-ghz-30-watts-fmir1040-p.aspx>

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FAIRVIEW MICROWAVE
FMIR1040
D/C: XXXX

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