

## High Power Isolator SMA Female with 18 dB Isolation from 1 GHz to 2 GHz Rated to 100 Watts

The FMIR1000 is a high power isolator offering a forward power rating of 100 Watts and reverse power rating of 50 Watts over an operational frequency band of 1 to 2 GHz. This coaxial part uses SMA female connectors on all ports and has a minimum of 18 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 Microwave's isolators feature excellent insertion loss, high isolation and reliability, low VSWR, and a wide dynamic temperature range.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	1		2	GHz
Impedance		50		Ohms
Insertion Loss			0.6	dB
Isolation	18			dB
VSWR			1.35:1	
Forward Power, CW			100	Watts
Reverse Power, CW			50	Watts

### Mechanical Specifications

<b>Size</b>	
Length	2.6 in [66.04 mm]
Width	0.75 in [19.05 mm]
Height	2.6 in [66.04 mm]
Weight	0.615 lbs [278.96 g]

#### Configuration

Design	Single Junction
Package Style	Connectorized
Connector 1	SMA Female
Connector 2	SMA Female

### Environmental Specifications

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:



### Features:

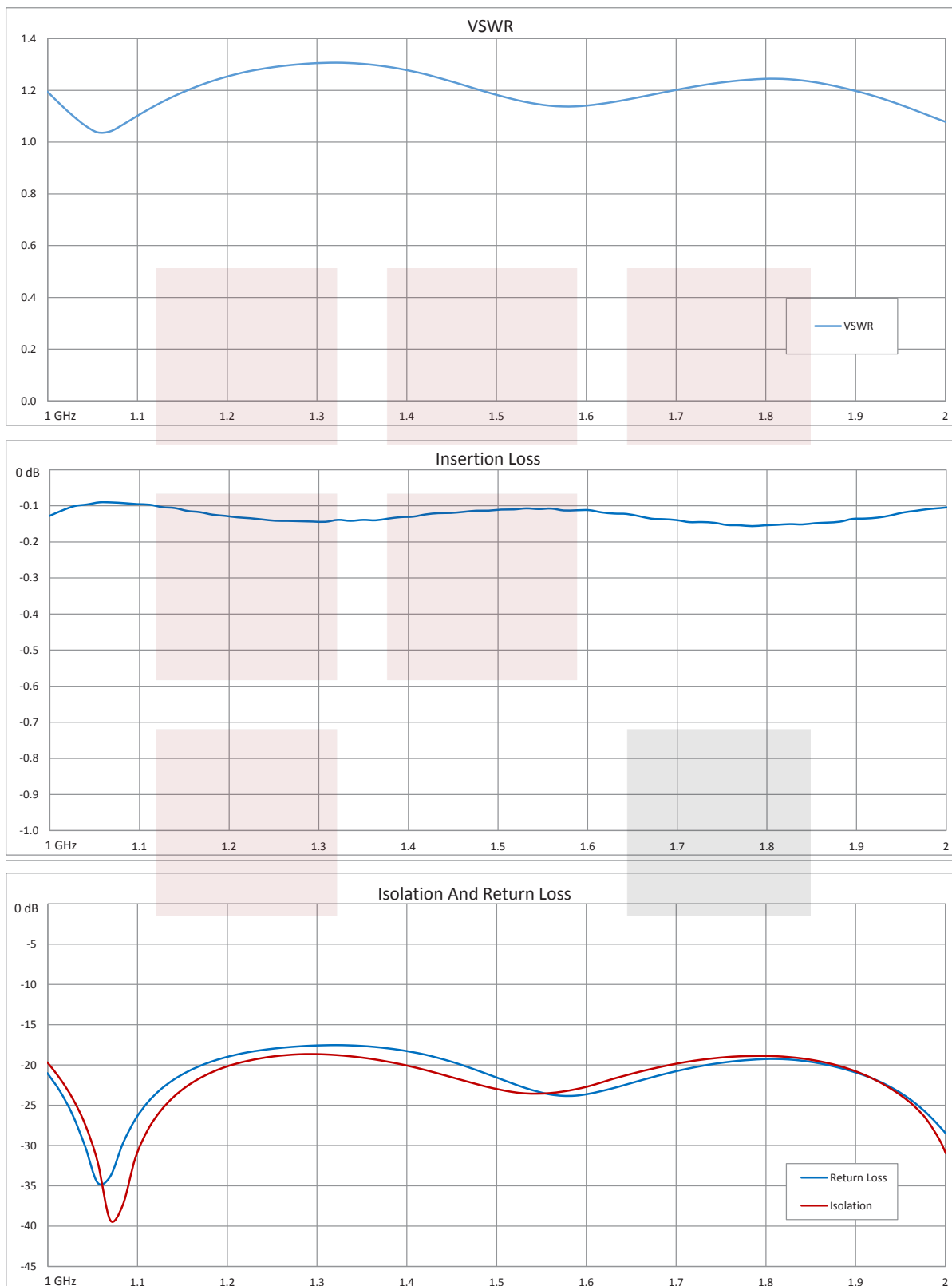
- Forward Power 100 Watts
- Reverse Power 50 Watts
- Frequency Range of 1 to 2 GHz
- Female SMA Connectors
- VSWR 1.35:1
- Isolation 18 dB

### Applications:

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

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**Typical Performance Data**

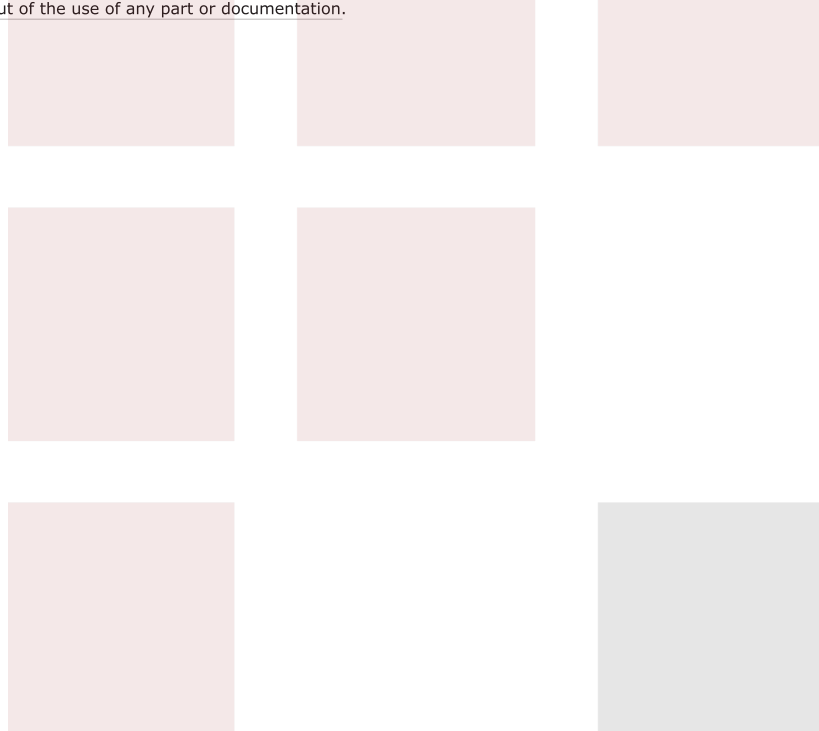


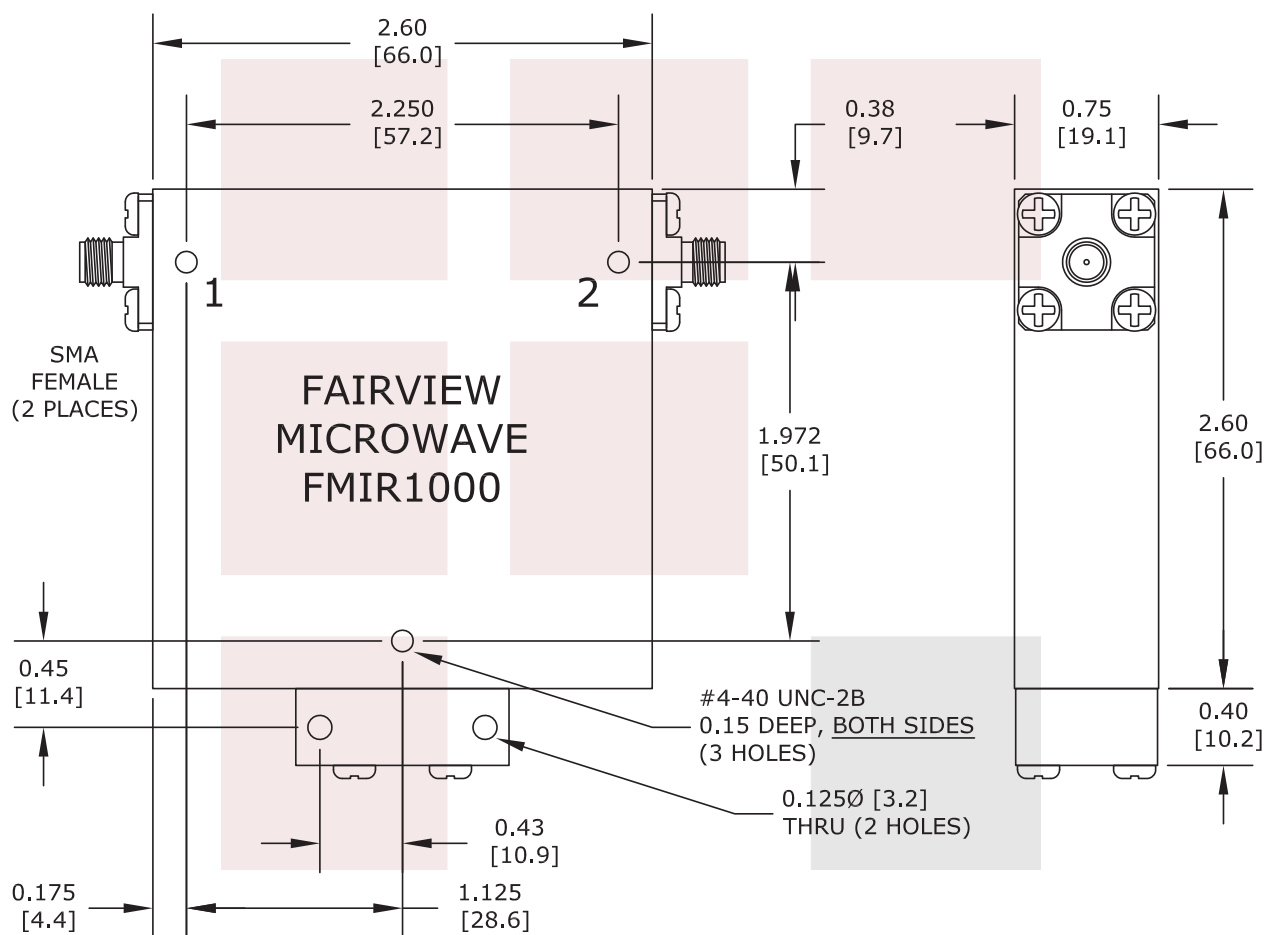
High Power Isolator SMA Female with 18 dB Isolation from 1 GHz to 2 GHz Rated to 100 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [High Power Isolator SMA Female with 18 dB Isolation from 1 GHz to 2 GHz Rated to 100 Watts FMIR1000](#)

URL: <https://www.fairviewmicrowave.com/high-power-isolator-sma-female-18db-isolation-2-ghz-100-watts-fmir1000-p.aspx>

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TITLE High Power Isolator SMA Female with 18 dB Isolation from 1 GHz to 2 GHz Rated to 100 Watts		DWG NO <b>FMIR1000</b>		CAGE CODE <b>3FKR5</b>	
CAD FILE	012516	SHEET	SCALE	N/A	SIZE A 2233