

**High Power Isolator SMA Female With 17 dB Isolation From 18 GHz to 26.5 GHz Rated to 50 Watts**

The FMIR1012 is a high power isolator offering a forward power rating of 50 watts over an operational frequency band of 18 to 26.5 GHz. This coaxial part uses SMA female connectors on all ports and has a minimum of 17 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, low VSWR, and a wide dynamic temperature range.

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	18		26.5	GHz
Impedance		50		Ohms
Insertion Loss			0.6	dB
Isolation	17			dB
VSWR			1.4:1	
Forward Power, CW			50	Watts
Reverse Power, CW			1	Watts

**Mechanical Specifications**

<b>Size</b>	
Length	0.5 in [12.7 mm]
Width	0.5 in [12.7 mm]
Height	0.67 in [17.02 mm]
Weight	0.0445 lbs [20.18 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:**

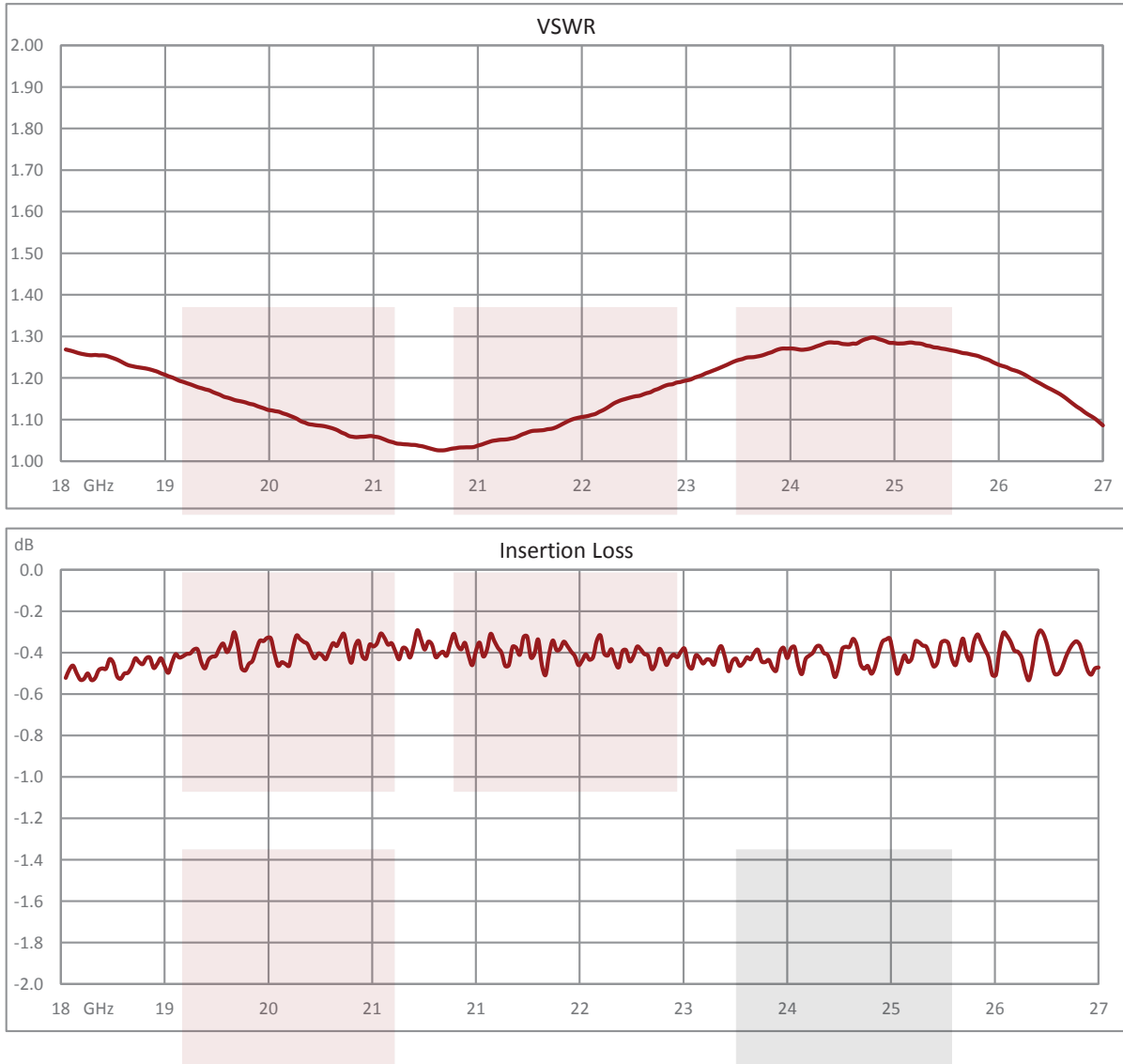
- Forward Power 50 watts
- Frequency Range of 18 to 26.5 GHz
- Female SMA Connectors
- VSWR 1.4:1
- Isolation 17 dB

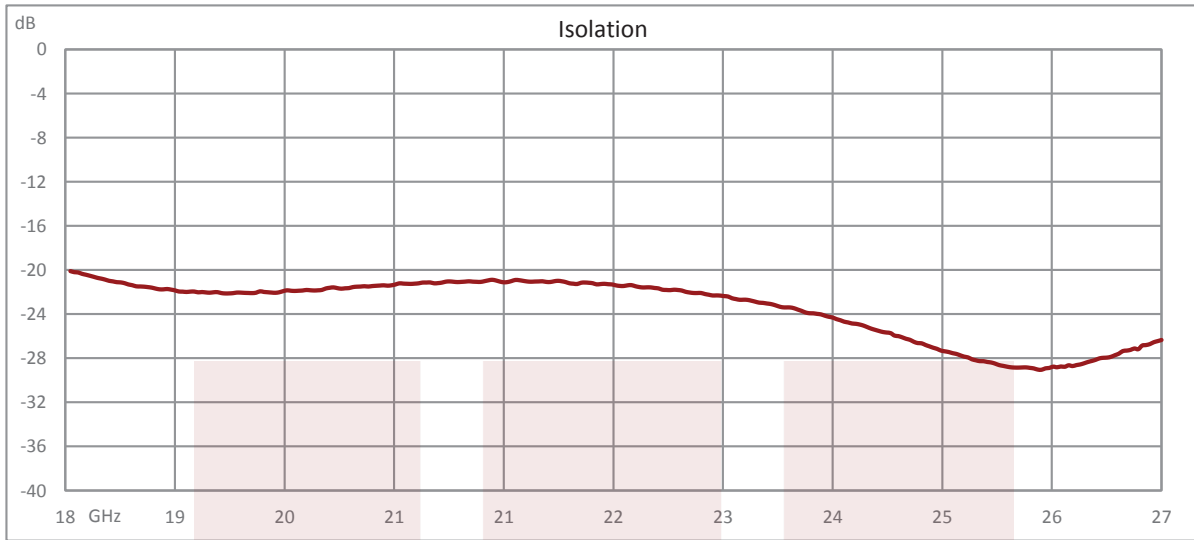
**Applications:**

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

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**Typical Performance Data**



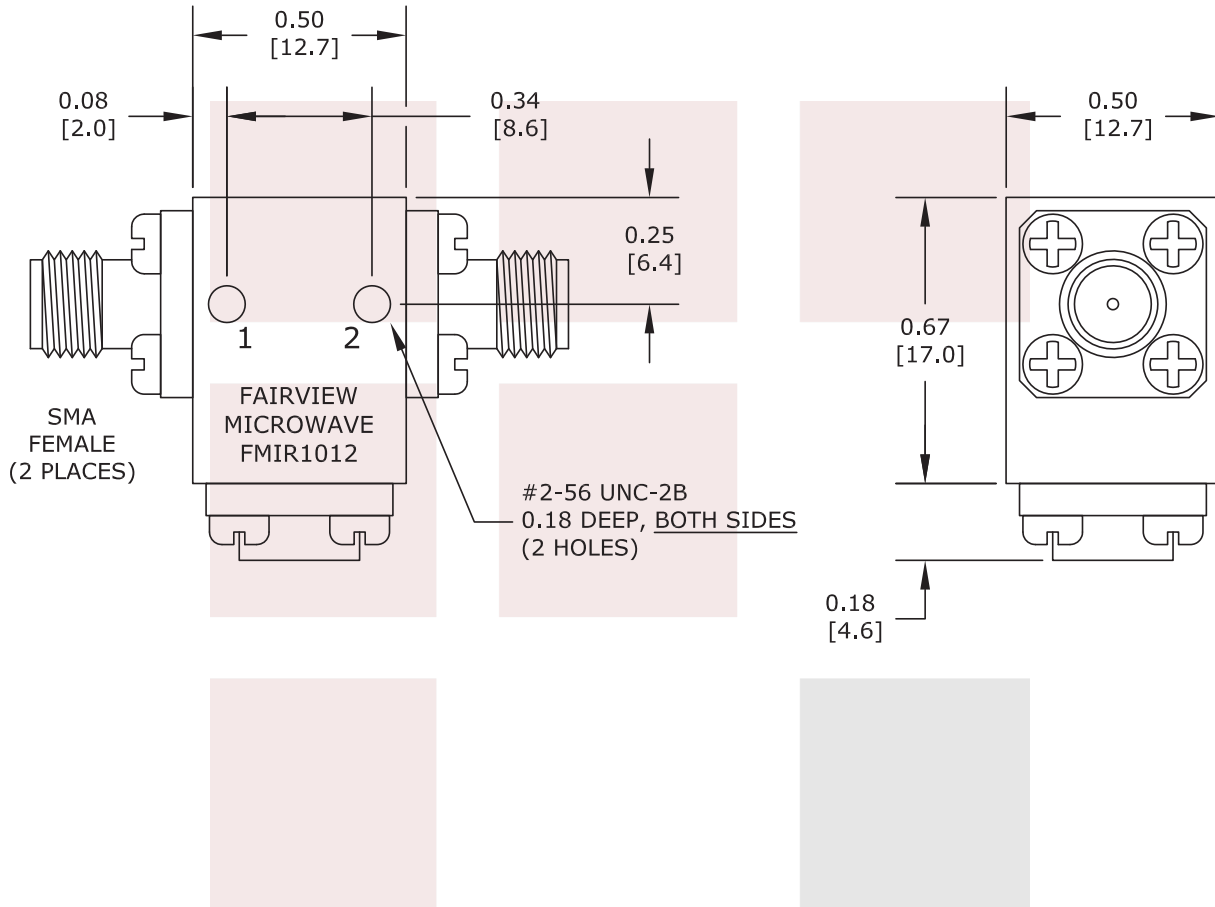


High Power Isolator SMA Female With 17 dB Isolation From 18 GHz to 26.5 GHz Rated to 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [High Power Isolator SMA Female With 17 dB Isolation From 18 GHz to 26.5 GHz Rated to 50 Watts FMIR1012](#)

URL: <https://www.fairviewmicrowave.com/high-power-isolator-sma-female-17db-isolation-26.5-ghz-50-watts-fmir1012-p.aspx>

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TITLE High Power Isolator SMA Female With 17 dB Isolation From 18 GHz to 26.5 GHz Rated to 50 Watts		DWG NO <b>FMIR1012</b>		CAGE CODE <b>3FKR5</b>	
CAD FILE 041216 SHEET		SCALE N/A		SIZE A 2233	