

High Power Isolator SMA Female With 20 dB Isolation From 7 GHz to 12.4 GHz Rated to 50 Watts

The FMIR1008 is a high power isolator offering a forward and reverse power rating of 50 watts over an operational frequency band of 7 to 12.4 GHz. This coaxial part uses SMA female 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, low VSWR, and a wide dynamic temperature range.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	7		12.4	GHz
Impedance		50		Ohms
Insertion Loss			0.6	dB
Isolation	20			dB
VSWR			1.25:1	
Forward Power, CW			50	Watts
Reverse Power, CW			50	Watts

Mechanical Specifications

Size	
Length	1 in [25.4 mm]
Width	0.63 in [16 mm]
Height	1 in [25.4 mm]
Weight	0.099 lbs [44.91 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:

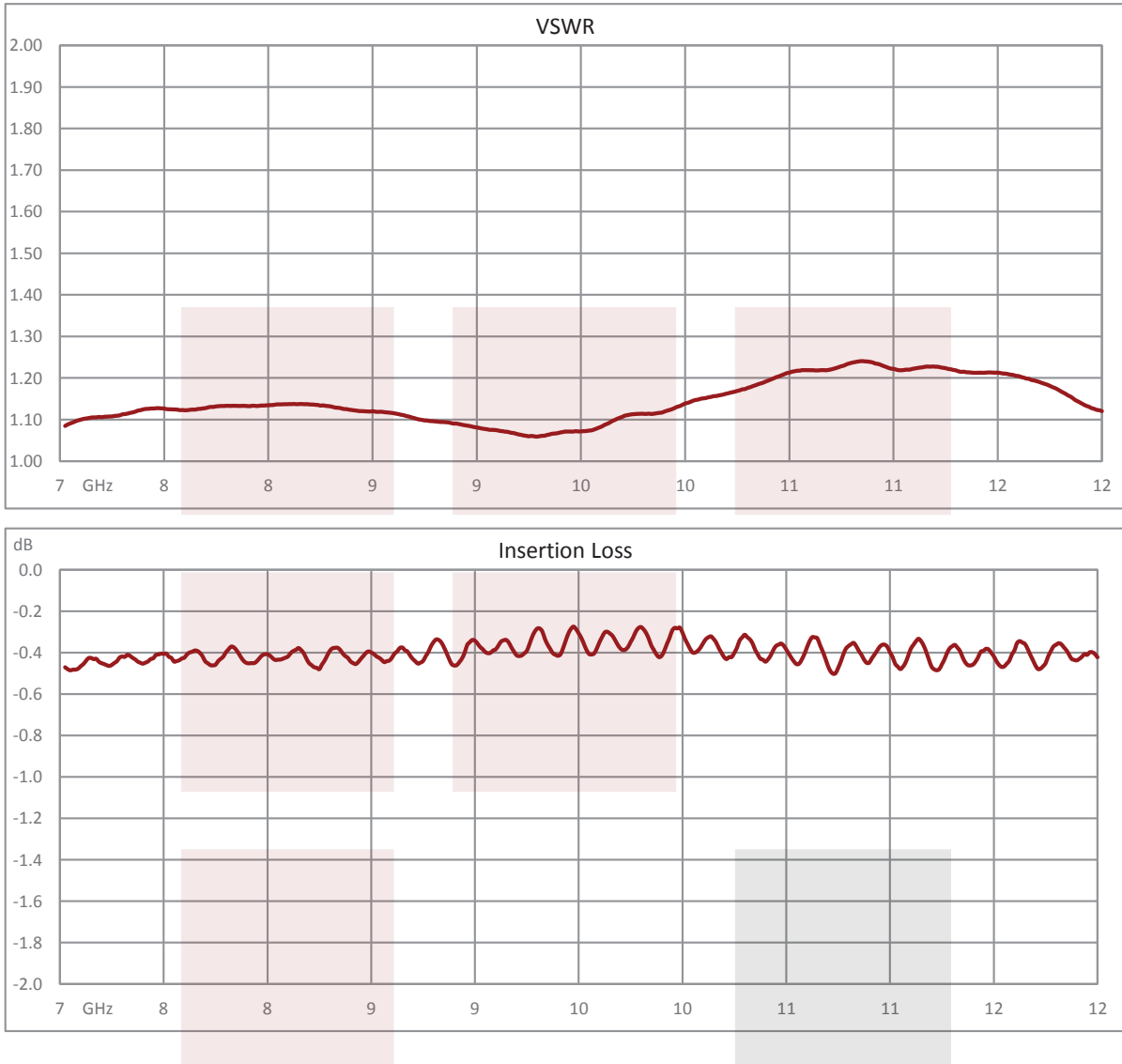
- Forward Power 50 watts
- Frequency Range of 7 to 12.4 GHz
- Female SMA Connectors
- VSWR 1.25:1
- Isolation 20 dB

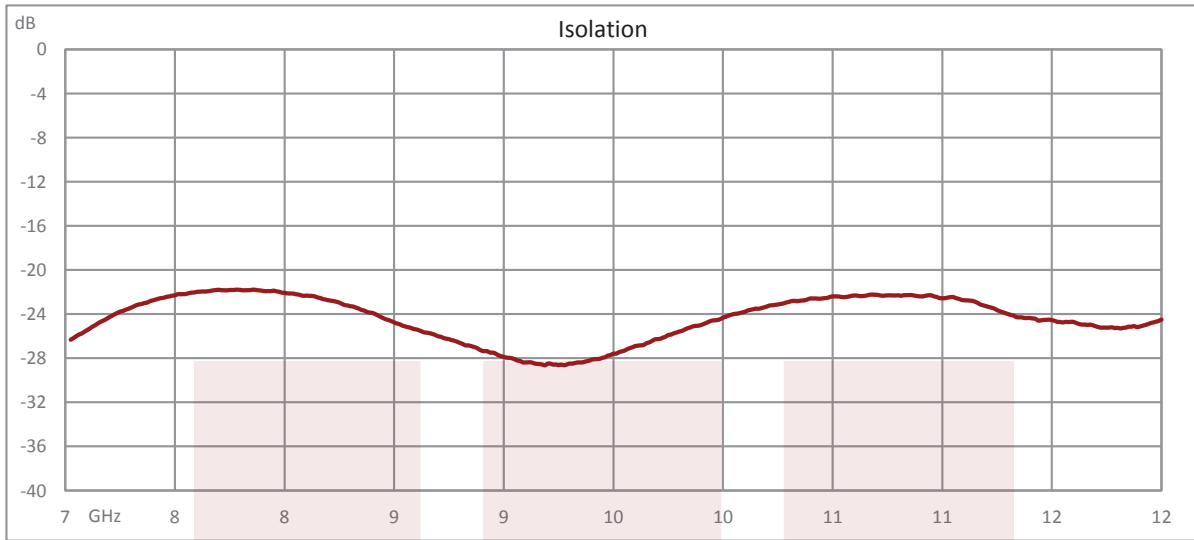
Applications:

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

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Typical Performance Data



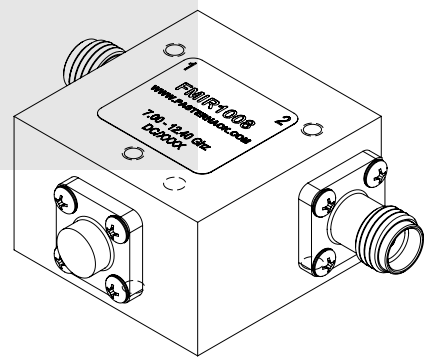
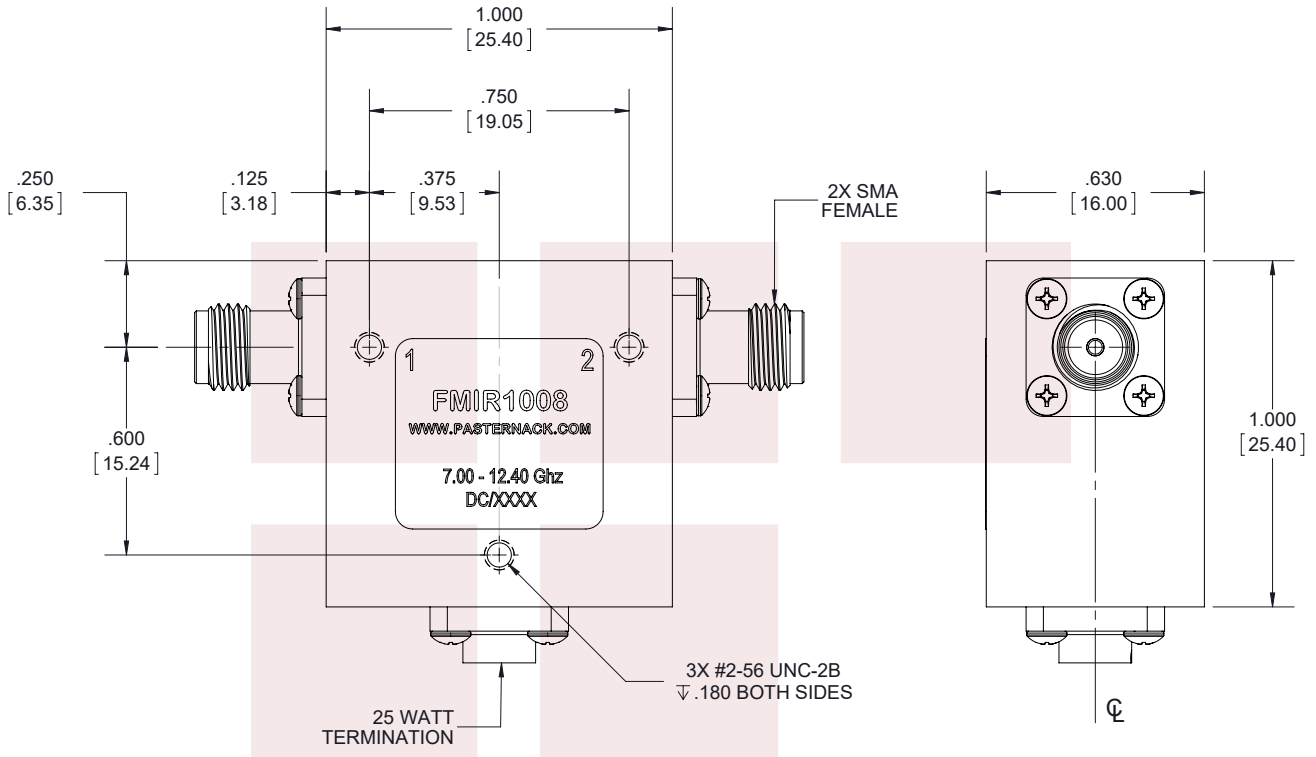


High Power Isolator SMA Female With 20 dB Isolation From 7 GHz to 12.4 GHz Rated to 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [High Power Isolator SMA Female With 20 dB Isolation From 7 GHz to 12.4 GHz Rated to 50 Watts FMIR1008](#)

URL: <https://www.fairviewmicrowave.com/sma-female-high-power-isolator-20db-isolation-12.4-ghz-50-watts-fmir1008-p.aspx>

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STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].			
TITLE High Power Isolator SMA Female With 20 dB Isolation From 7 GHz to 12.4 GHz Rated to 50 Watts		DWG NO FMIR1008		CAGE CODE 3FKR5	
CAD FILE	091117	SHEET	1 OF 1	SCALE	N/A
		SIZE	A		7361