

SMA Female High Power Isolator With 16 dB Isolation From 8 GHz to 18 GHz And 50 Watts

The FMIR1010 is a high power isolator offering a forward and reverse power rating of 50 watts over an operational frequency band of 8 to 18 GHz. This coaxial part uses SMA female connectors on all ports and has a minimum of 16 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
Impedance		50		Ohms
Frequency Range	8		18	GHz
Insertion Loss			0.6	dB
Forward Power			50	Watts
Reverse Power			50	Watts
Input VSWR			1.45:1	
Isolation	16			dB

* Values at 25°C, sea level

Mechanical Specifications

Size	
Length	0.5 in [12.7 mm]
Width	0.56 in [14.22 mm]
Height	0.68 in [17.27 mm]
Weight	0.0482 lbs [21.86 g]

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant	Yes
REACH Compliant	12/17/2015

Plotted and Other Data

Notes:

- Values at 25 °C, sea level



Features:

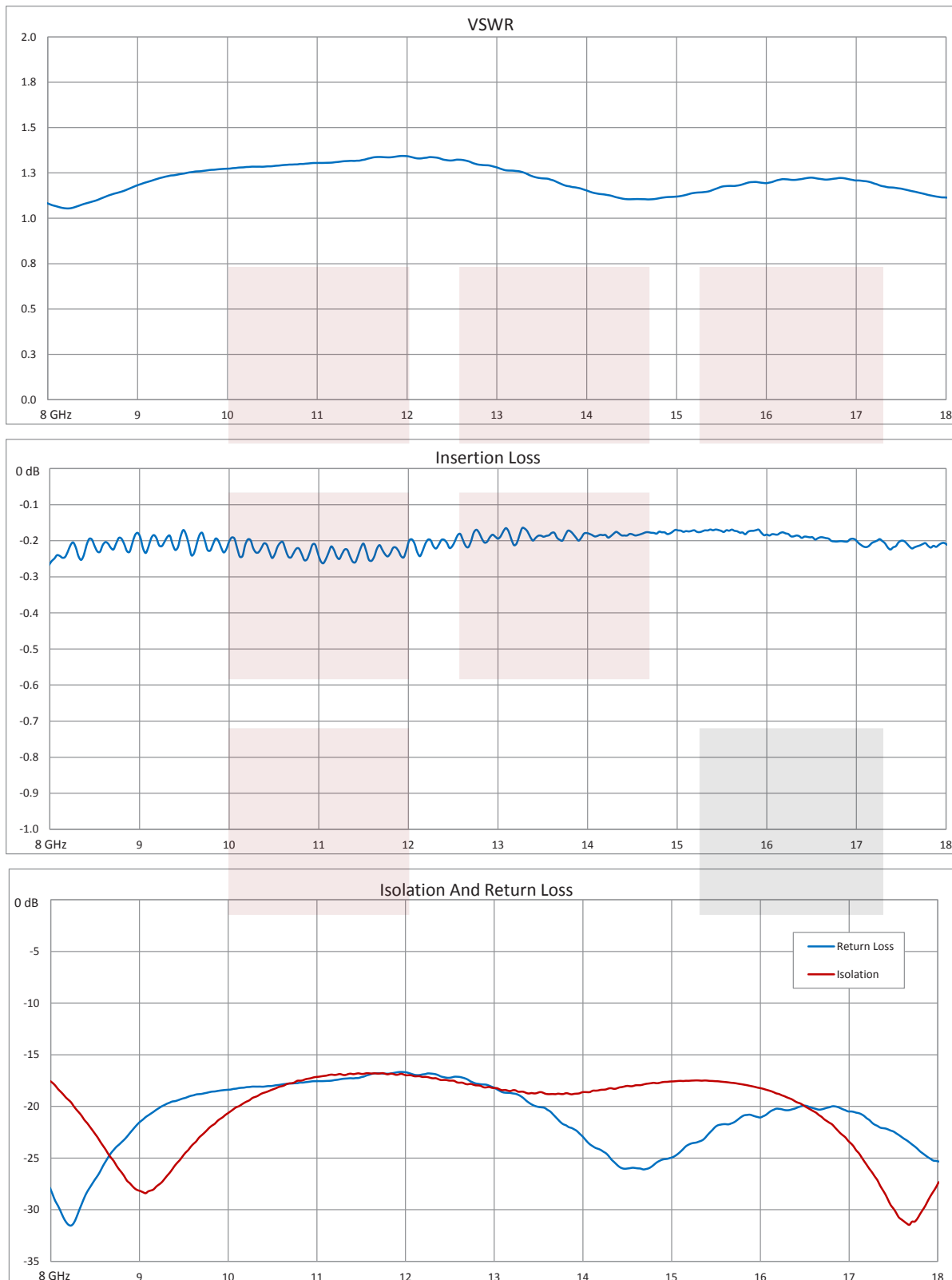
- Design: Single Junction
- Freq. Range: 8 GHz to 18 GHz
- Connectors: SMA Female
- Layout: Connectorized

Applications:

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

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Typical Performance Data

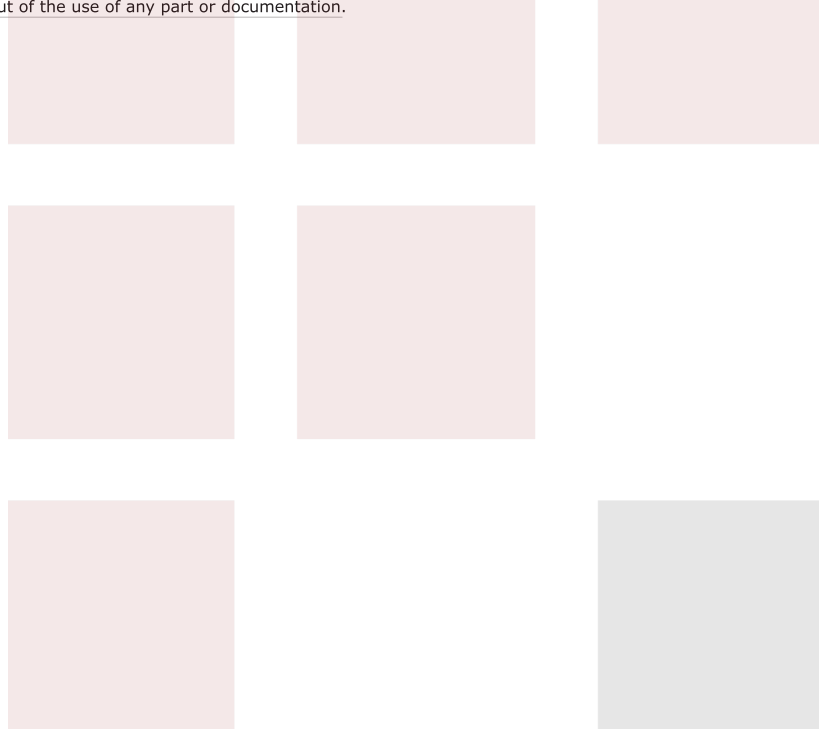


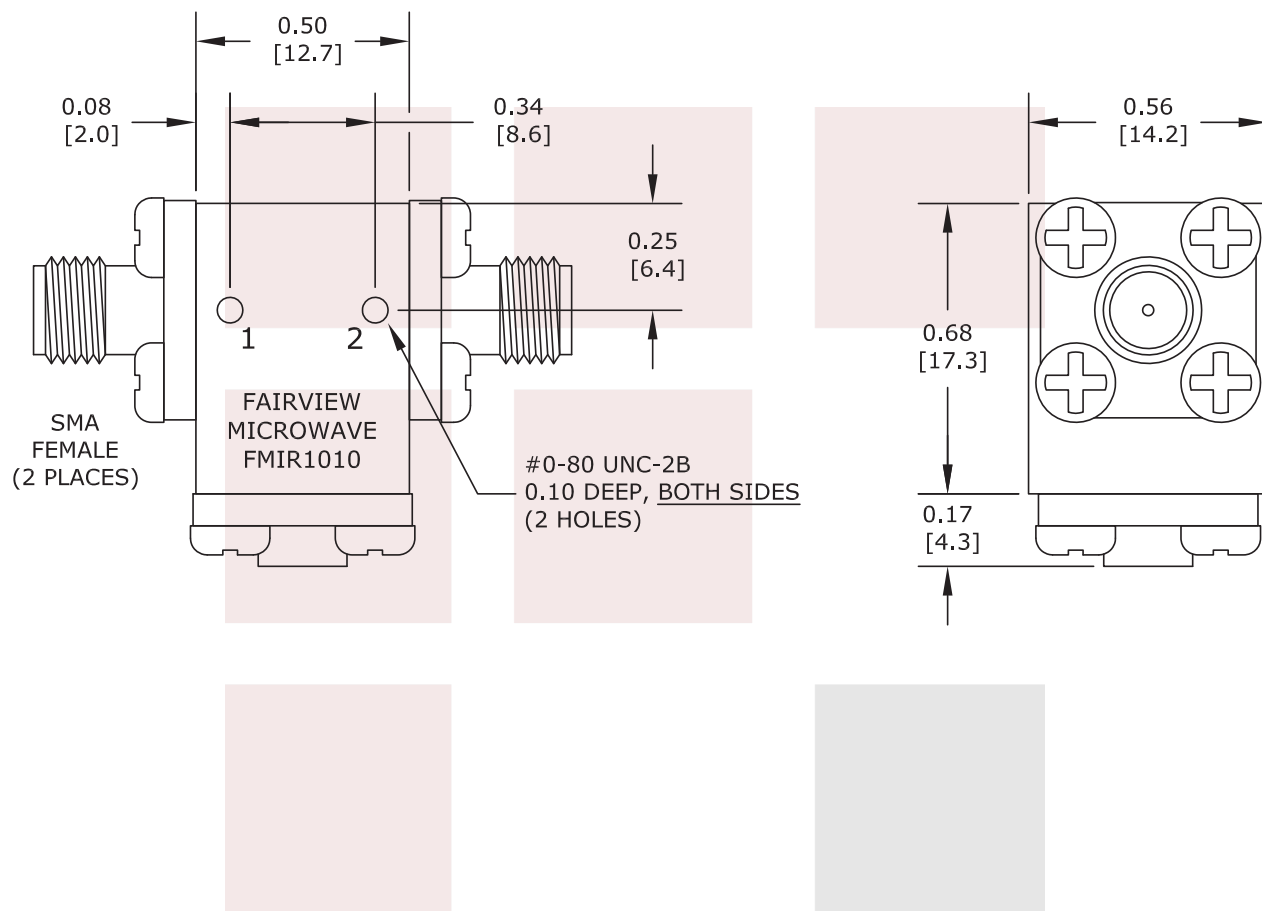
SMA Female High Power Isolator With 16 dB Isolation From 8 GHz to 18 GHz And 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Female High Power Isolator With 16 dB Isolation From 8 GHz to 18 GHz And 50 Watts FMIR1010](#)

URL: <http://www.fairviewmicrowave.com/sma-female-high-power-isolator-16db-isolation-18-ghz-50-watts-fmir1010-p.aspx>

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TITLE SMA Female High Power Isolator With 16 dB Isolation From 8 GHz to 18 GHz And 50 Watts		DWG NO FMIR1010		CAGE CODE 3FKR5	
CAD FILE	040416	SHEET	SCALE	N/A	SIZE A 2233