

Dual Junction Isolator SMA Female with 36 dB Isolation from 1 GHz to 2 GHz Rated to 50 Watts

The FMIR1013 is a dual junction isolator offering 36 dB minimum of isolation over a frequency band of 1 to 2 GHz. This coaxial part uses SMA female connectors on all ports and has a power rating of 50 Watts in forward and 2 Watts in reverse direction.

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			1.2	dB
Isolation	36			dB
VSWR			1.35:1	
Forward Power, CW			50	Watts
Reverse Power, CW			2	Watts

Mechanical Specifications

Size	
Length	5.96 in [151.38 mm]
Width	0.75 in [19.05 mm]
Height	2.8 in [71.12 mm]
Weight	1.1975 lbs [543.18 g]

Configuration

Design	Dual 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:

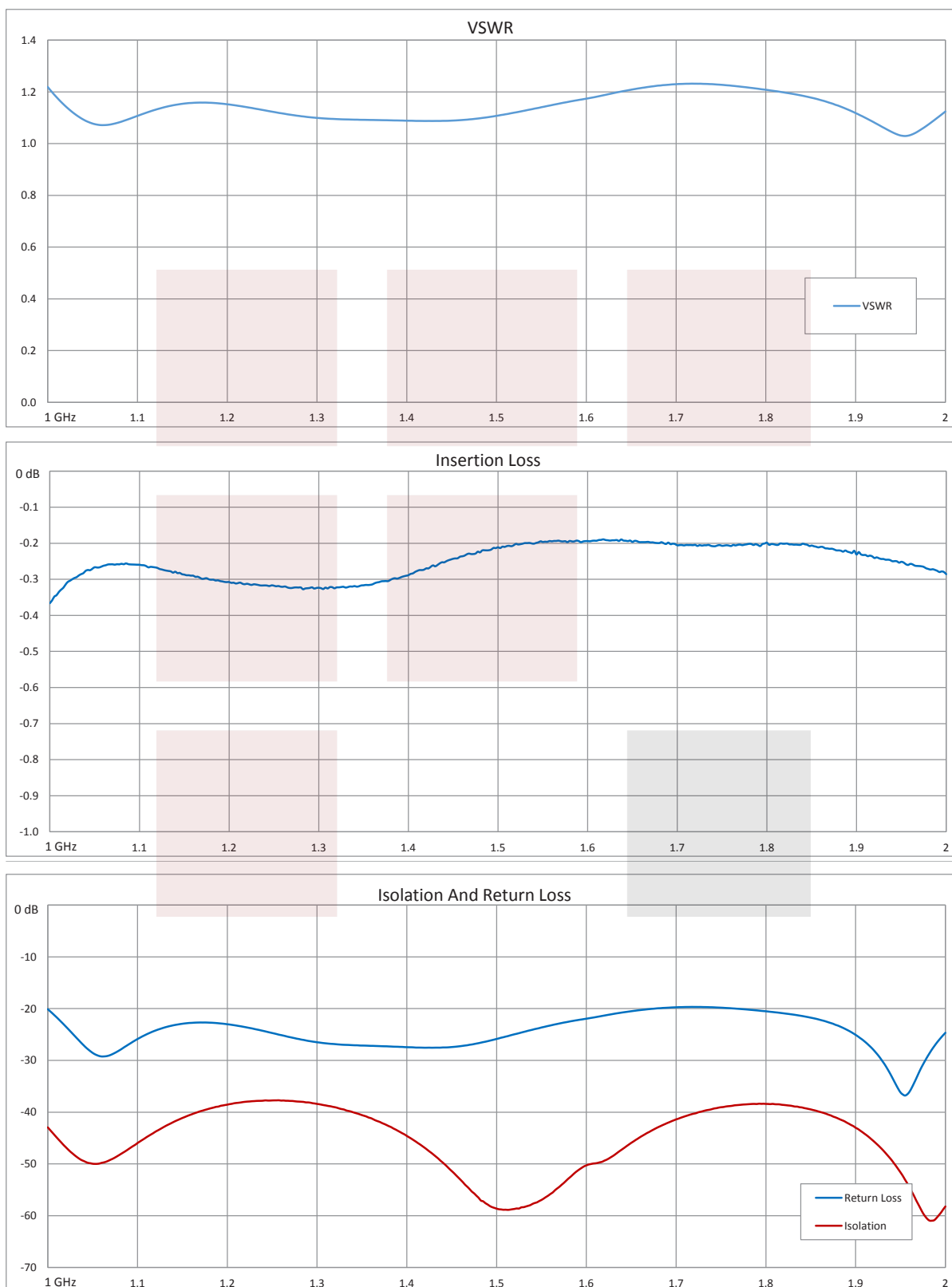
- High Isolation of 36 dB
- Frequency Range of 1 to 2 GHz
- Female SMA Connectors
- VSWR of 1.35:1

Applications:

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

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Typical Performance Data



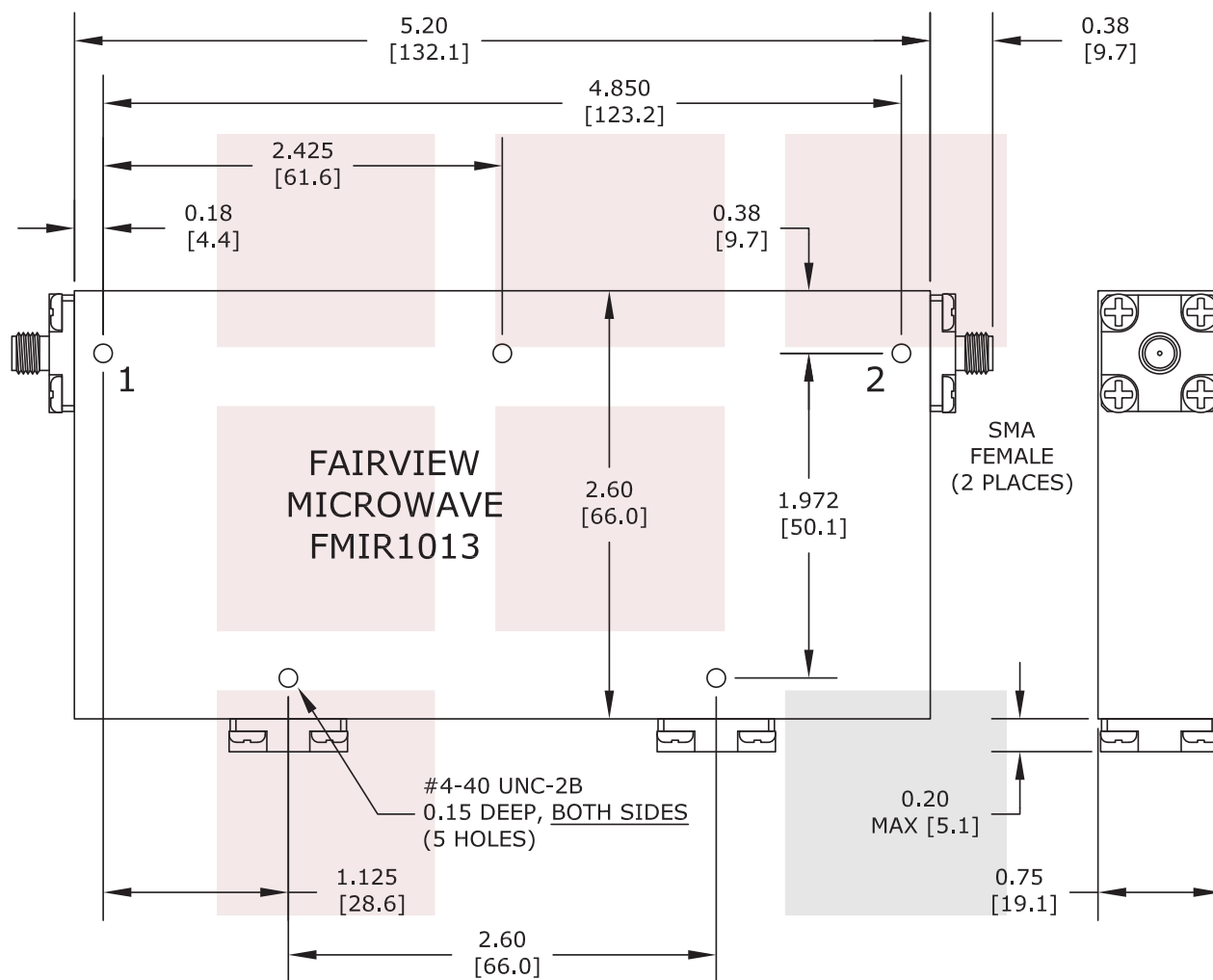
Dual Junction Isolator SMA Female with 36 dB Isolation from 1 GHz to 2 GHz Rated to 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Dual Junction Isolator SMA Female with 36 dB Isolation from 1 GHz to 2 GHz Rated to 50 Watts FMIR1013](#)

URL: <https://www.fairviewmicrowave.com/dual-junction-isolator-sma-female-36db-isolation-2-ghz-50-watts-fmir1013-p.aspx>

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TITLE Dual Junction Isolator SMA Female with 36 dB Isolation from 1 GHz to 2 GHz Rated to 50 Watts		DWG NO FMIR1013		CAGE CODE 3FKR5	
CAD FILE	011416	SHEET	SCALE	N/A	SIZE A 2233