

**Dual Junction Isolator N Female With 40 dB Isolation
From 7 GHz to 12.4 GHz Rated to 5 Watts**

The FMIR1022 is a dual junction isolator offering 40 dB minimum of isolation over a frequency band of 7 to 12.4 GHz. This coaxial part uses type N female connectors on all ports and has a power rating of 5 watts in forward and 1 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's isolators feature excellent insertion loss, high isolation and reliability, low VSWR, and a wide dynamic temperature range.



Features:

- Design: Dual Junction
- Freq. Range: 7 GHz to 12.4 GHz
- Connectors: N Female
- Layout: Connectorized

Applications:

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

Electrical Specifications*

Description	Min	Typ	Max	Units
Impedance		50		Ohms
Frequency Range	7		12.4	GHz
Insertion Loss			1.2	dB
Forward Power			5	Watts
Reverse Power			1	Watts
Input VSWR			1.25:1	
Isolation	40			dB

* Values at 25°C, sea level

Mechanical Specifications

Size	
Length	1.7 in [43.18 mm]
Width	0.75 in [19.05 mm]
Height	1.17 in [29.72 mm]
Weight	0.2142 lbs [97.16 g]

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

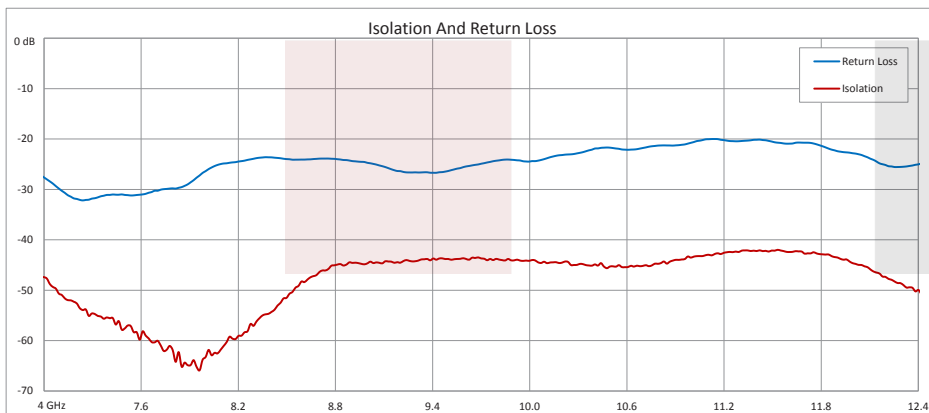
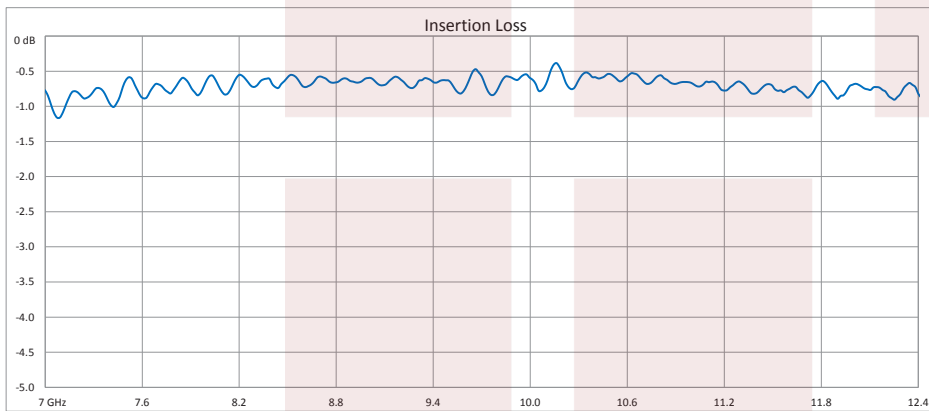
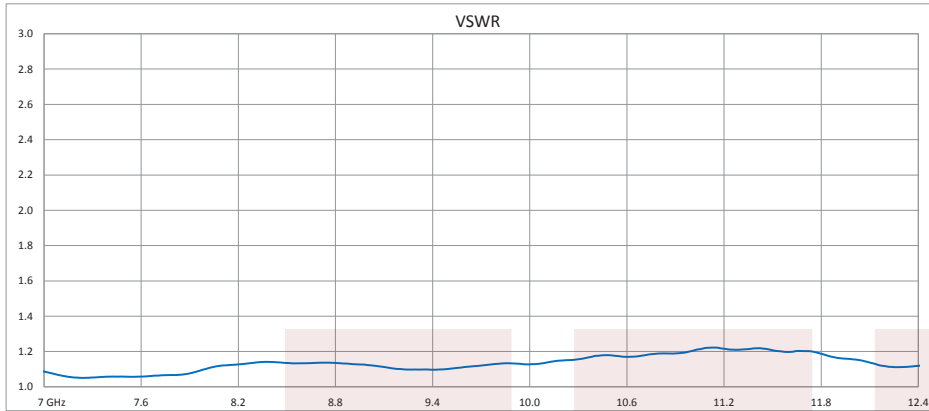
RoHS Compliant	Yes
REACH Compliant	12/17/2015

Plotted and Other Data

- Notes:
- Values at 25 °C, sea level

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Typical Performance Data



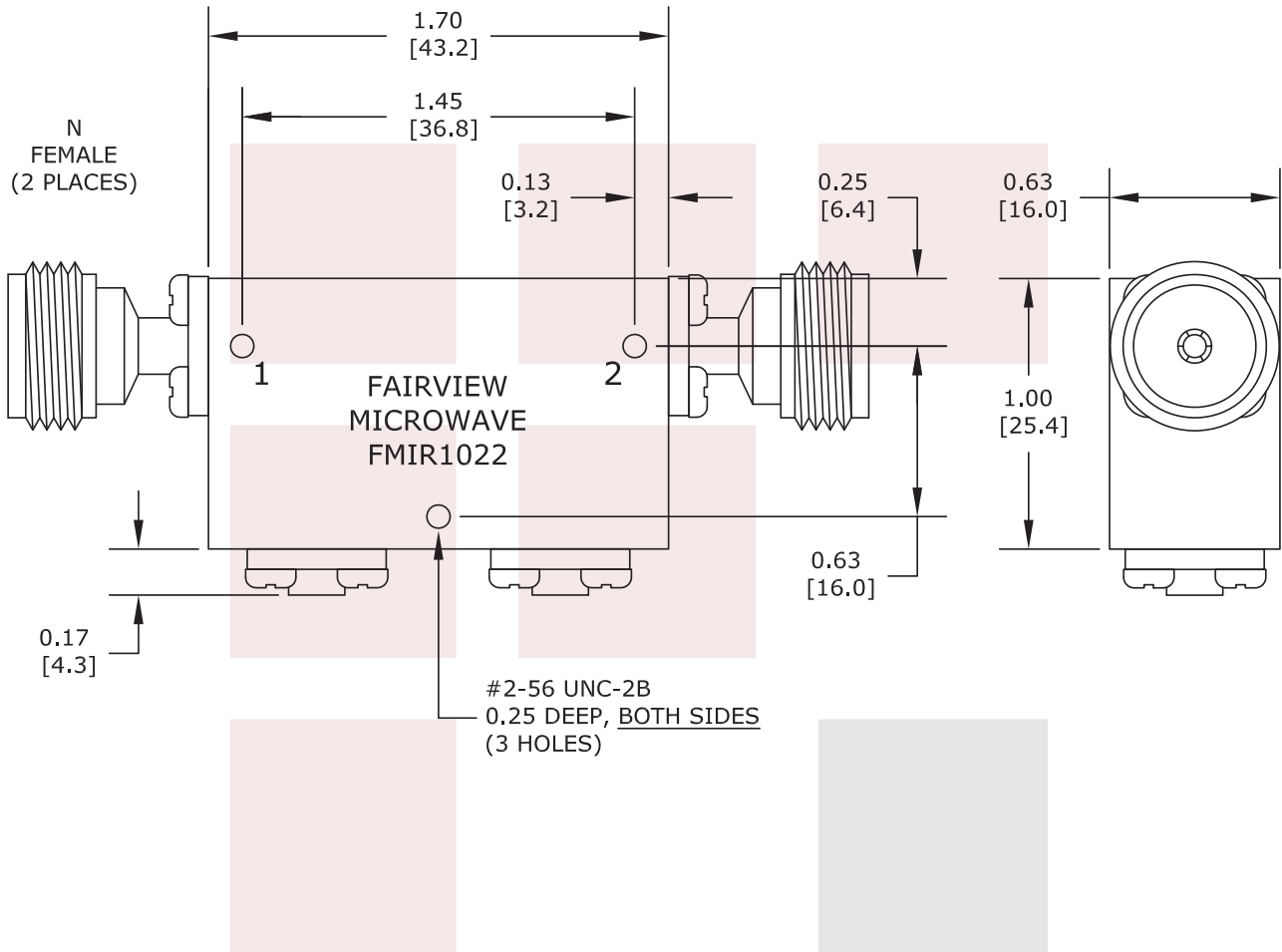
Dual Junction Isolator N Female With 40 dB Isolation From 7 GHz to 12.4 GHz Rated to 5 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Dual Junction Isolator N Female With 40 dB Isolation From 7 GHz to 12.4 GHz Rated to 5 Watts FMIR1022](#)

URL: <http://www.fairviewmicrowave.com/n-female-dual-junction-isolator-40db-isolation-12.4-ghz-5-watts-fmir1022-p.aspx>

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TITLE Dual Junction Isolator N Female With 40 dB Isolation From 7 GHz to 12.4 GHz Rated to 5 Watts		DWG NO FMIR1022		CAGE CODE 3FKR5	
CAD FILE	032316	SHEET	SCALE	N/A	SIZE A 2233