

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.

Electrical Specifications

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

Mechanical Specifications

Size	
Length	1.7 in [43.18 mm]
Width	0.63 in [16 mm]
Height	1 in [25.4 mm]
Weight	0.214 lbs [97.07 g]

Configuration

Design	Dual Junction
Package Style	Connectorized
Connector 1	N Female
Connector 2	SMA Female

Environmental Specifications

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:



Features:

- High Isolation of 40 dB
- Frequency Range of 7 to 12.4 GHz
- Female N Connectors
- VSWR of 1.25:1

Applications:

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

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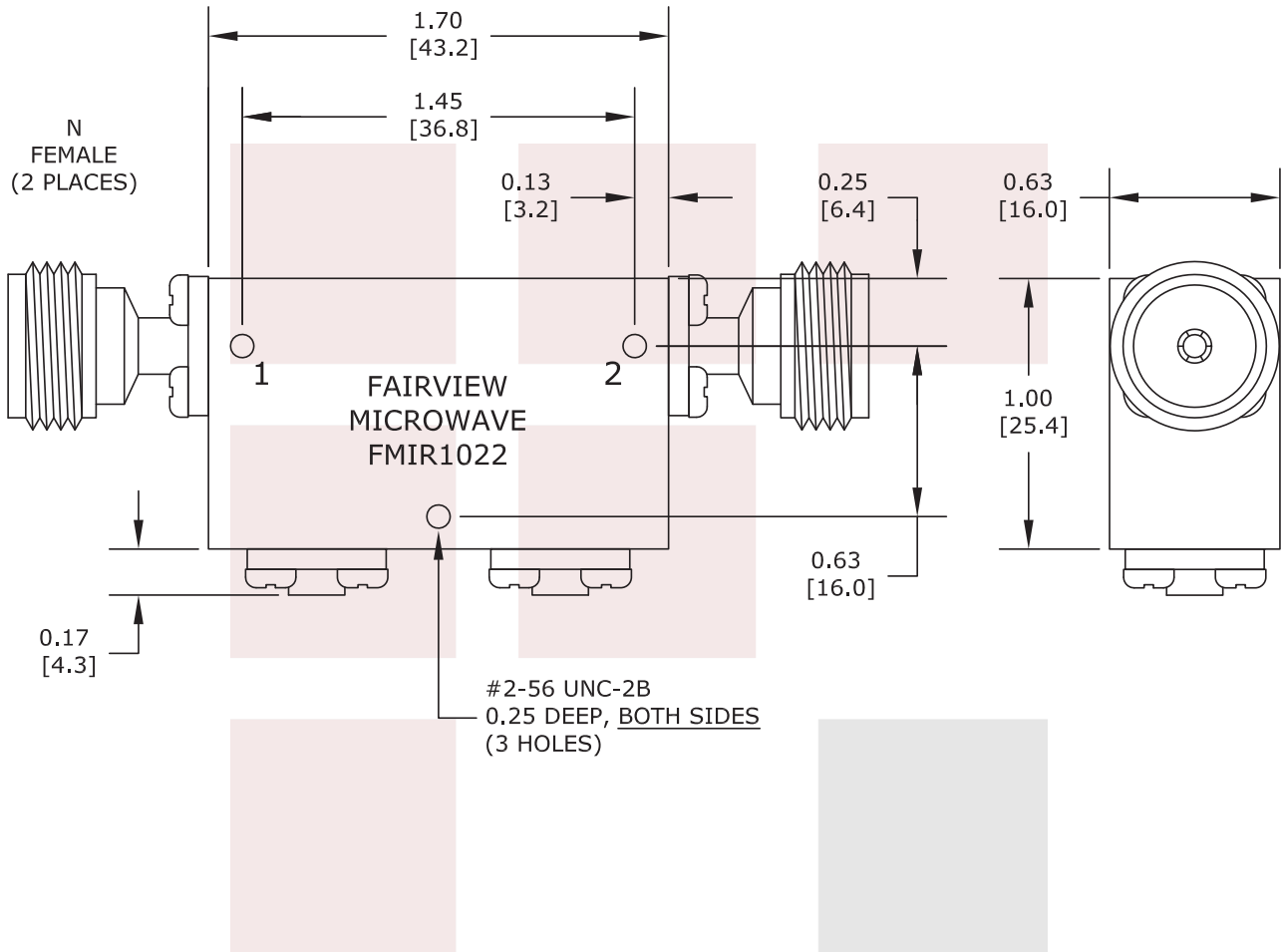
Dual Junction Isolator N Female With 40 dB Isolation From 7 GHz to 12.4 GHz Rated to 5 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave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