

High Power Isolator N Female with 20 dB Isolation from 1.7 GHz to 2.2 GHz Rated to 100 Watts

The FMIR1003 is a high power isolator offering a forward power rating of 100 Watts and reverse power rating of 50 Watts over an operational frequency band of 1.7 to 2.2 GHz. This coaxial part uses type N 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	1.7		2.2	GHz
Impedance		50		Ohms
Insertion Loss			0.4	dB
Isolation	20			dB
VSWR			1.25:1	
Forward Power, CW			100	Watts
Reverse Power, CW			50	Watts

Mechanical Specifications

Size	
Length	2.5 in [63.5 mm]
Width	1.02 in [25.91 mm]
Height	2.5 in [63.5 mm]
Weight	0.3415 lbs [154.9 g]

Configuration

Design	Single Junction
Package Style	Connectorized
Connector 1	N Female
Connector 2	N Female

Environmental Specifications

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

Plotted and Other Data

Notes:



Features:

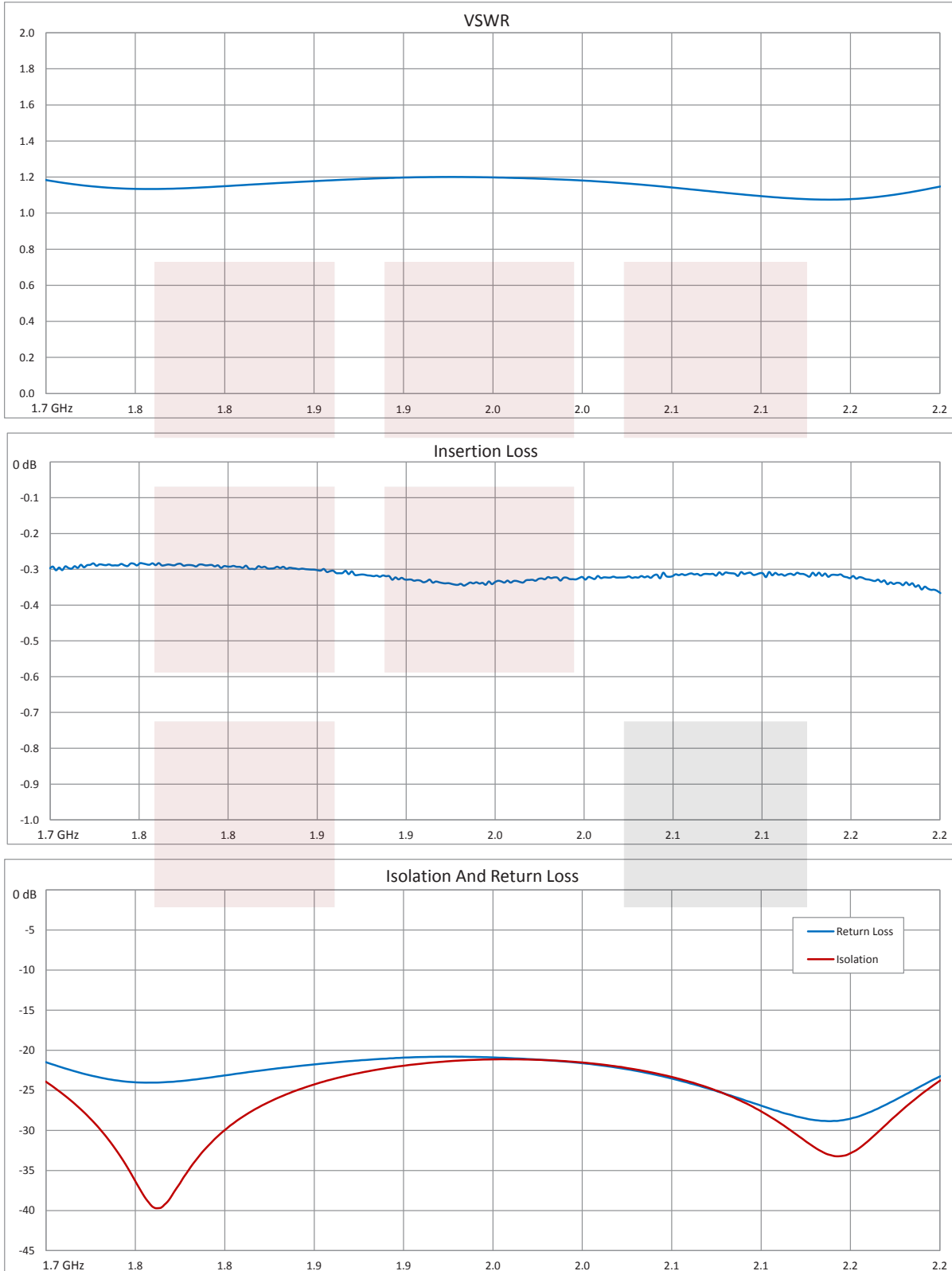
- Forward Power 100 Watts
- Reverse Power 50 Watts
- Frequency Range of 1.7 to 2.2 GHz
- Female N Connectors
- VSWR 1.25:1
- Isolation 20 dB

Applications:

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

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Typical Performance Data



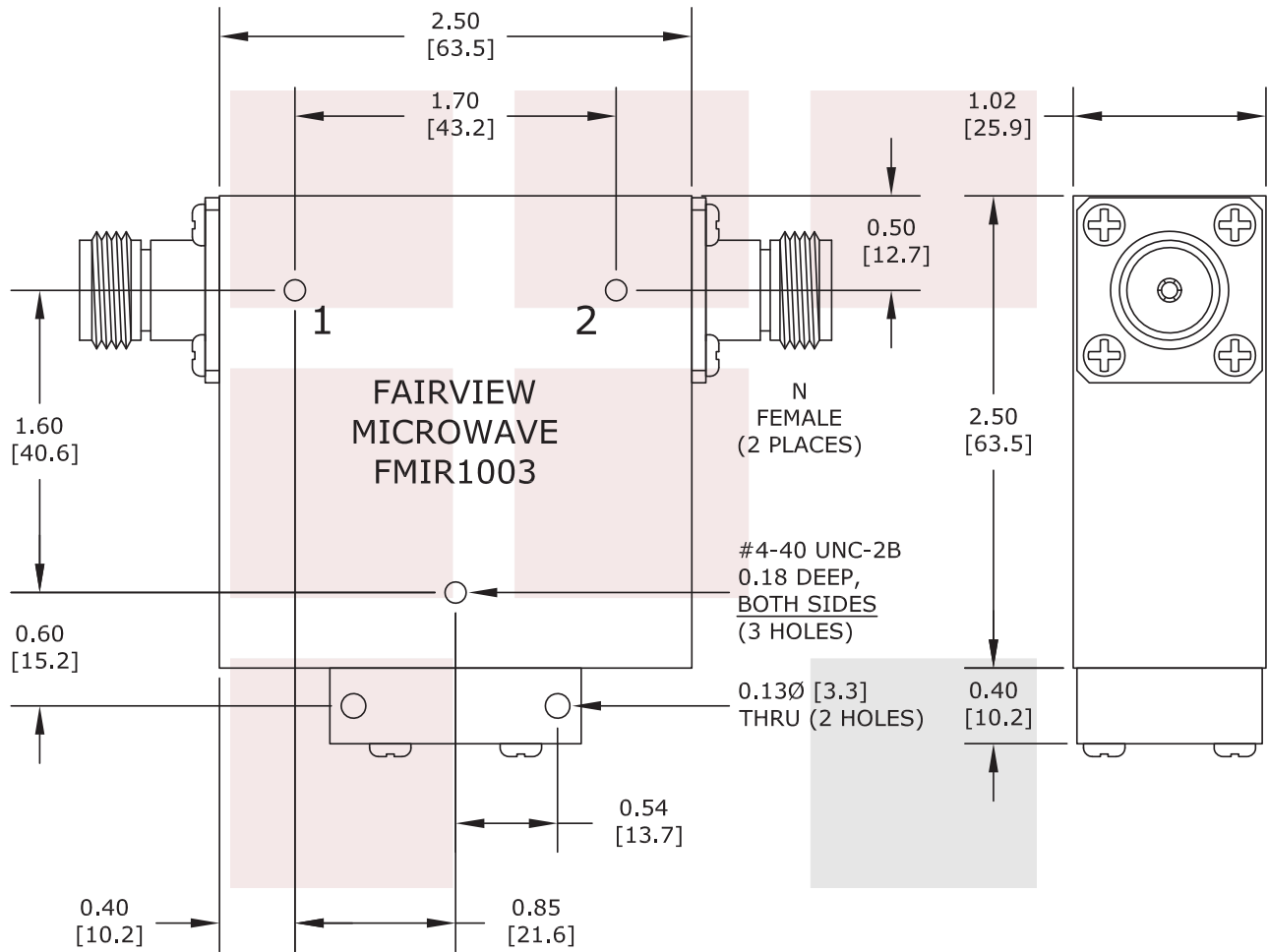
High Power Isolator N Female with 20 dB Isolation from 1.7 GHz to 2.2 GHz Rated to 100 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [High Power Isolator N Female with 20 dB Isolation from 1.7 GHz to 2.2 GHz Rated to 100 Watts FMIR1003](#)

URL: <https://www.fairviewmicrowave.com/high-power-isolator-n-female-20db-isolation-2.2-ghz-100-watts-fmir1003-p.aspx>

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TITLE High Power Isolator N Female with 20 dB Isolation from 1.7 GHz to 2.2 GHz Rated to 100 Watts		DWG NO FMIR1003		CAGE CODE 3FKR5	
CAD FILE	020216	SHEET	SCALE	N/A	SIZE A 2233