

Dual Junction Isolator N Female with 40 dB Isolation from 1.7 GHz to 2.2 GHz Rated to 50 Watts

The FMIR1016 is a dual junction isolator offering 40 dB minimum of isolation over a frequency band of 1.7 to 2.2 GHz. This coaxial part uses type N 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	1.7		2.2	GHz
Impedance		50		Ohms
Insertion Loss			0.8	dB
Isolation	40			dB
VSWR			1.25:1	
Forward Power, CW			50	Watts
Reverse Power, CW			2	Watts

Mechanical Specifications

Size	
Length	5 in [127 mm]
Width	1.02 in [25.91 mm]
Height	2.85 in [72.39 mm]
Weight	1.8135 lbs [822.59 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:

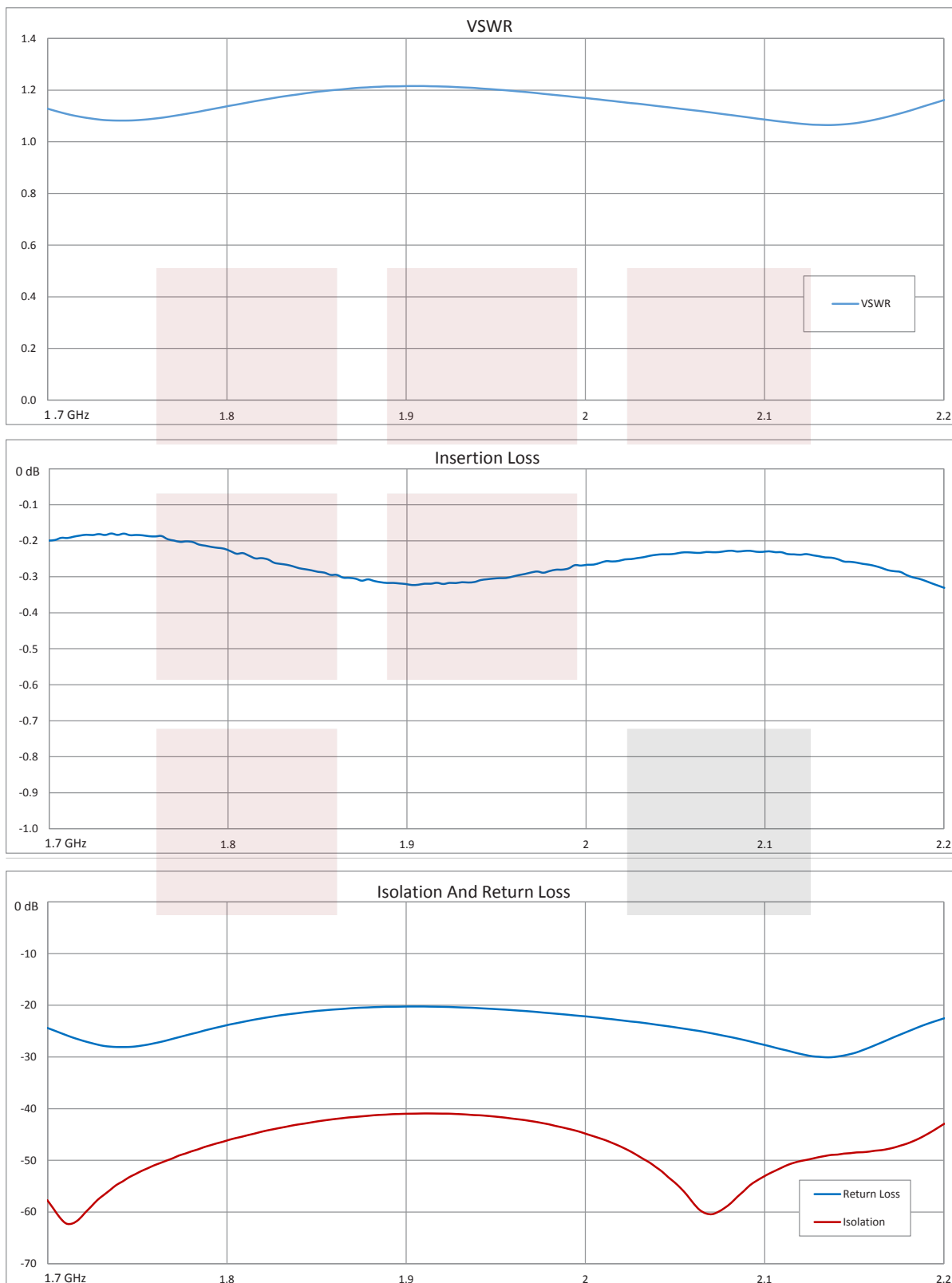
- High Isolation of 40 dB
- Frequency Range of 1.7 to 2.2 GHz
- Female N Connectors
- VSWR of 1.25:1

Applications:

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

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Typical Performance Data



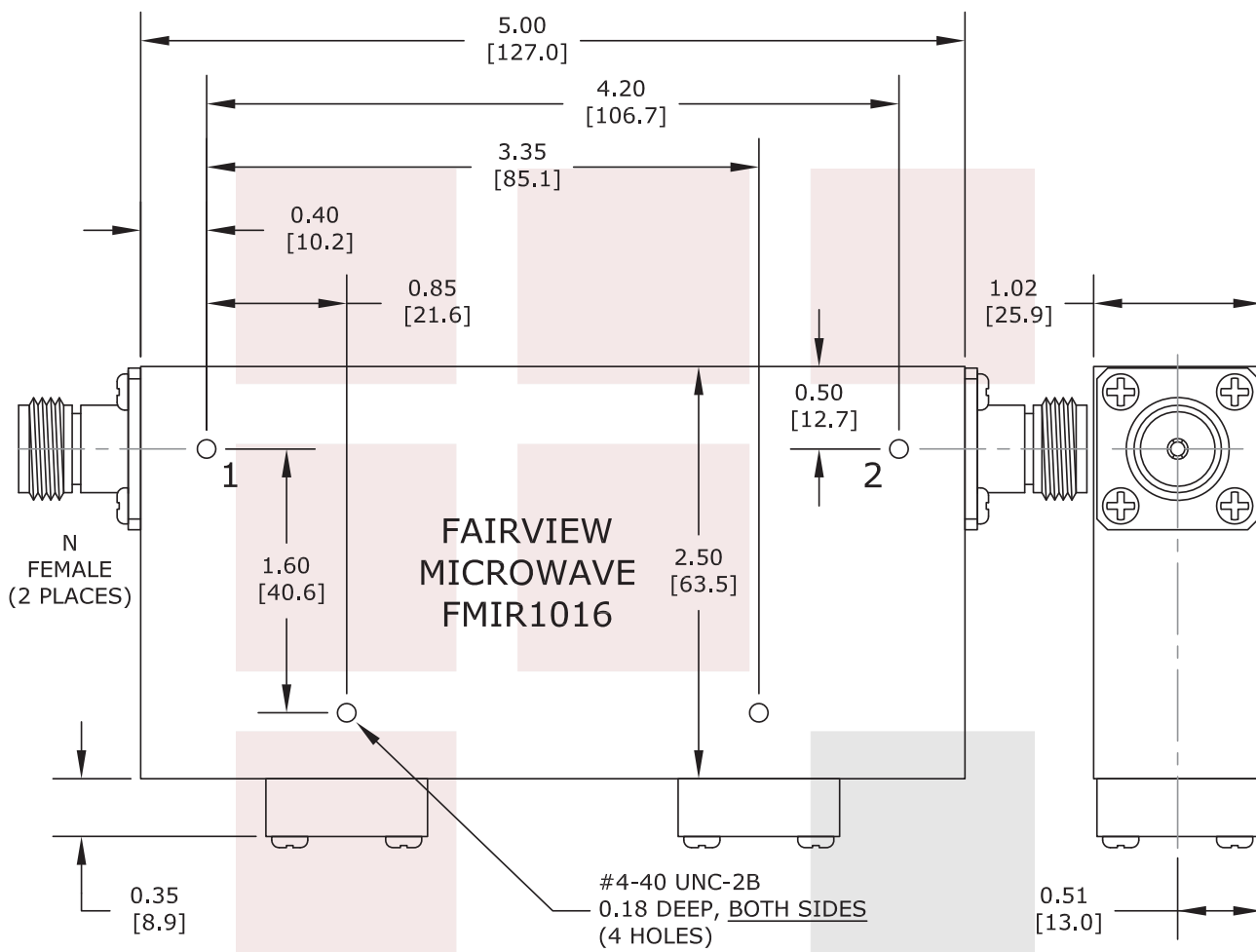
Dual Junction Isolator N Female with 40 dB Isolation from 1.7 GHz to 2.2 GHz Rated to 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Dual Junction Isolator N Female with 40 dB Isolation from 1.7 GHz to 2.2 GHz Rated to 50 Watts FMIR1016](#)

URL: <https://www.fairviewmicrowave.com/dual-junction-isolator-n-female-40db-isolation-2.2-ghz-50-watts-fmir1016-p.aspx>

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FAIRVIEW MICROWAVE INC.

ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

TITLE

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DWG NO

FMIR1016

CAGE CODE

3FKR5

CAD FILE

022416

SHEET

SCALE

N/A

SIZE

A

2233