

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

The FMIR1014 is a dual junction isolator offering 36 dB minimum of isolation over a frequency band of 1 to 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		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	6.68 in [169.67 mm]
Width	0.75 in [19.05 mm]
Height	2.8 in [71.12 mm]
Weight	1.273 lbs [577.42 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:

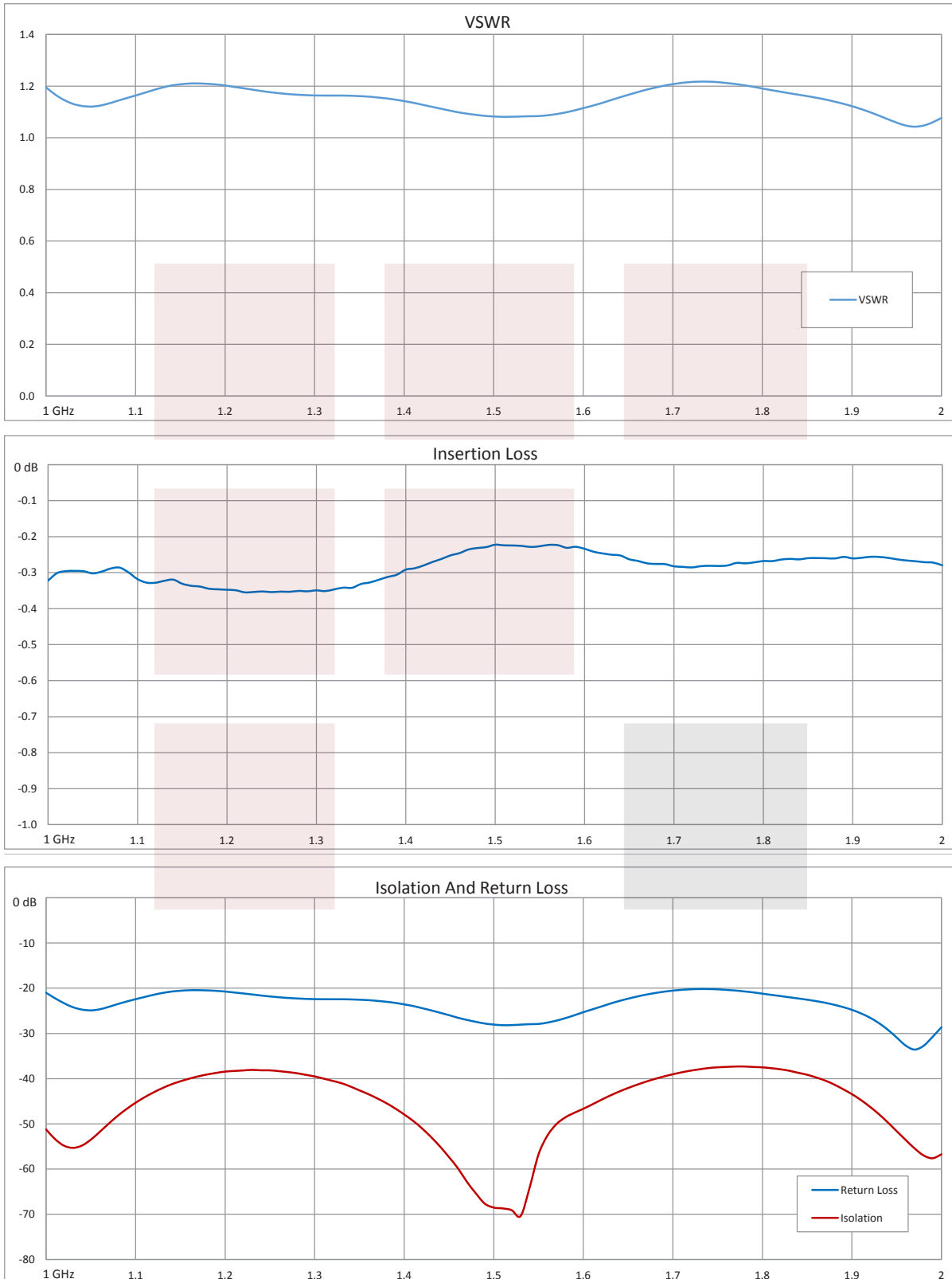
- High Isolation of 36 dB
- Frequency Range of 1 to 2 GHz
- Female N Connectors
- VSWR of 1.35:1

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



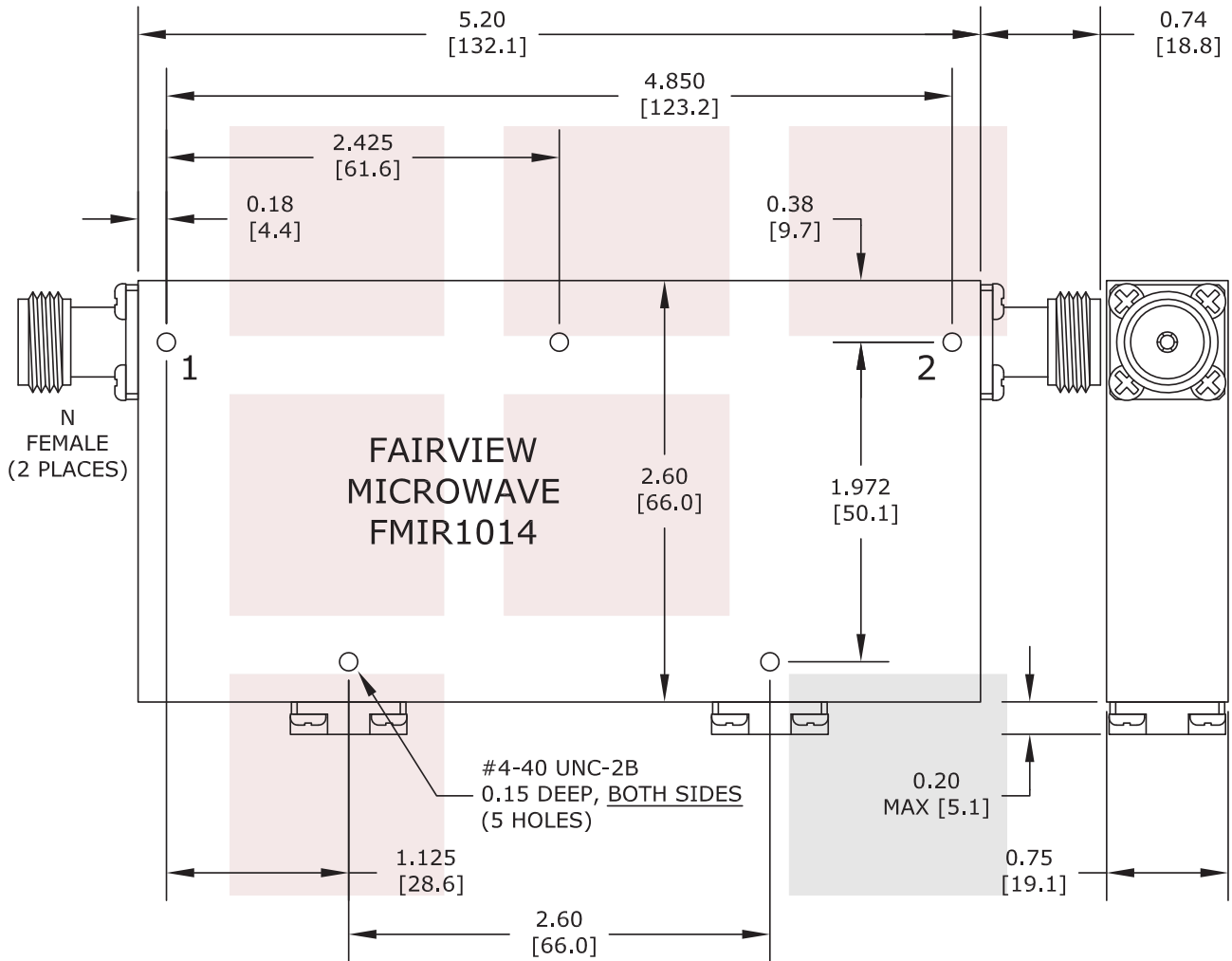
Dual Junction Isolator N Female with 36 dB Isolation from 1 GHz to 2 GHz Rated to 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave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

For additional information on this product, please click the following link: [Dual Junction Isolator N Female with 36 dB Isolation from 1 GHz to 2 GHz Rated to 50 Watts FMIR1014](#)

URL: <https://www.fairviewmicrowave.com/dual-junction-isolator-n-female-36db-isolation-2-ghz-50-watts-fmir1014-p.aspx>

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TITLE Dual Junction Isolator N Female with 36 dB Isolation from 1 GHz to 2 GHz Rated to 50 Watts		DWG NO FMIR1014		CAGE CODE 3FKR5	
CAD FILE 011516 SHEET		SCALE N/A		SIZE A 2233	