

**Dual Junction Isolator N Female With 36 dB Isolation  
 From 4 GHz to 8 GHz Rated to 10 Watts**

The FMIR1020 is a dual junction isolator offering 36 dB minimum of isolation over a frequency band of 4 to 8 GHz. This coaxial part uses type N female connectors on all ports and has a power rating of 10 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's isolators feature excellent insertion loss, high isolation and reliability, low VSWR, and a wide dynamic temperature range.



**Features:**

- Design: Dual Junction
- Freq. Range: 4 GHz to 8 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	4		8	GHz
Insertion Loss			1	dB
Forward Power			10	Watts
Reverse Power			2	Watts
Input VSWR			1.3:1	
Isolation	36			dB

\* Values at 25°C, sea level

**Mechanical Specifications**

Size	
Length	2 in [50.8 mm]
Width	0.63 in [16 mm]
Height	1.25 in [31.75 mm]
Weight	0.2326 lbs [105.51 g]

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

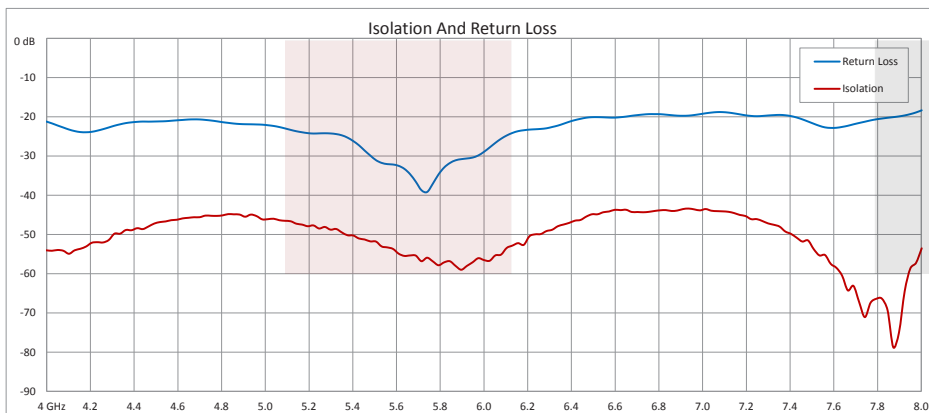
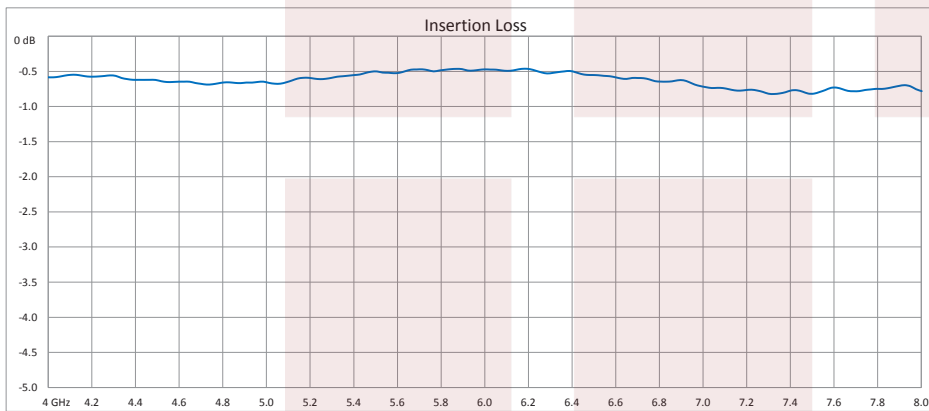
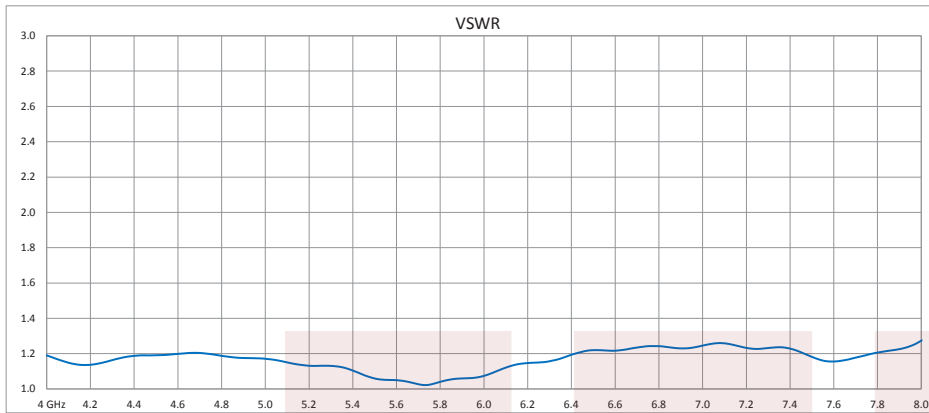
RoHS Compliant	Yes
REACH Compliant	12/17/2015

**Plotted and Other Data**

- Notes:
- Values at 25 °C, sea level

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**Typical Performance Data**



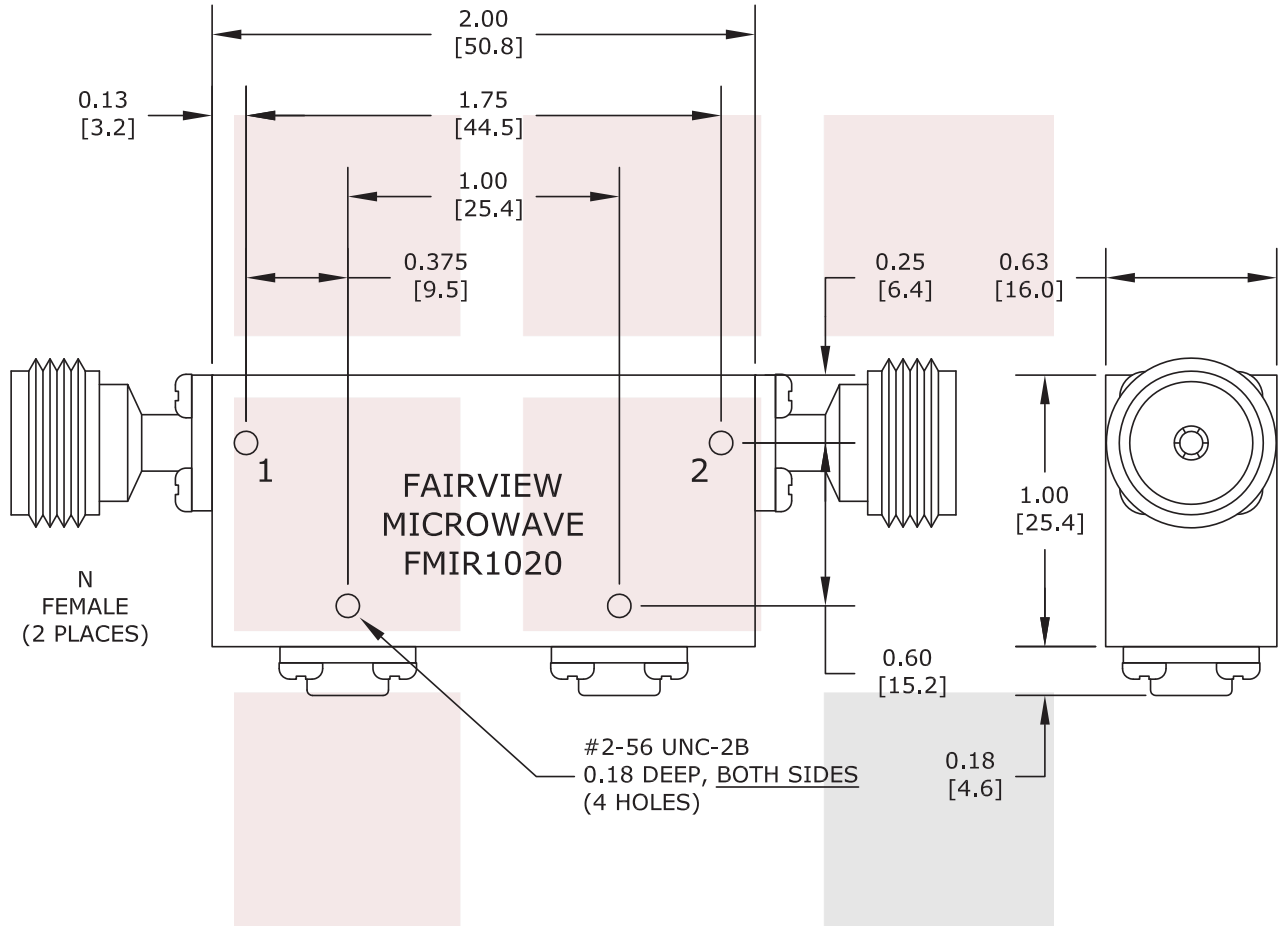
Dual Junction Isolator N Female With 36 dB Isolation From 4 GHz to 8 GHz Rated to 10 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Dual Junction Isolator N Female With 36 dB Isolation From 4 GHz to 8 GHz Rated to 10 Watts FMIR1020](#)

URL: <http://www.fairviewmicrowave.com/n-female-dual-junction-isolator-36db-isolation-8-ghz-10-watts-fmir1020-p.aspx>

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TITLE Dual Junction Isolator N Female With 36 dB Isolation From 4 GHz to 8 GHz Rated to 10 Watts		DWG NO FMIR1020		CAGE CODE 3FKR5	
CAD FILE	050616	SHEET	SCALE	N/A	SIZE A 2233