

SMA Female Dual Junction Isolator With 40 dB Isolation From 11 GHz to 18 GHz And 5 Watts

The FMIR1024 is a dual junction isolator offering 40 dB minimum of isolation over a frequency band of 11 to 18 GHz. This coaxial part uses SMA 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.



Features:

- Design: Dual Junction
- Freq. Range: 11 GHz to 18 GHz
- Connectors: SMA 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 | 11 | | 18 | GHz |
| Insertion Loss | | | 1.2 | dB |
| Forward Power | | | 5 | Watts |
| Reverse Power | | | 1 | Watts |
| Input VSWR | | | 1.25:1 | |
| Isolation | 40 | | | dB |

* Values at 25°C, sea level

Mechanical Specifications

| Size | |
|--------|--------------------|
| Length | 1.26 in [32 mm] |
| Width | 0.56 in [14.22 mm] |
| Height | 0.98 in [24.89 mm] |
| Weight | 0.0948 lbs [43 g] |

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

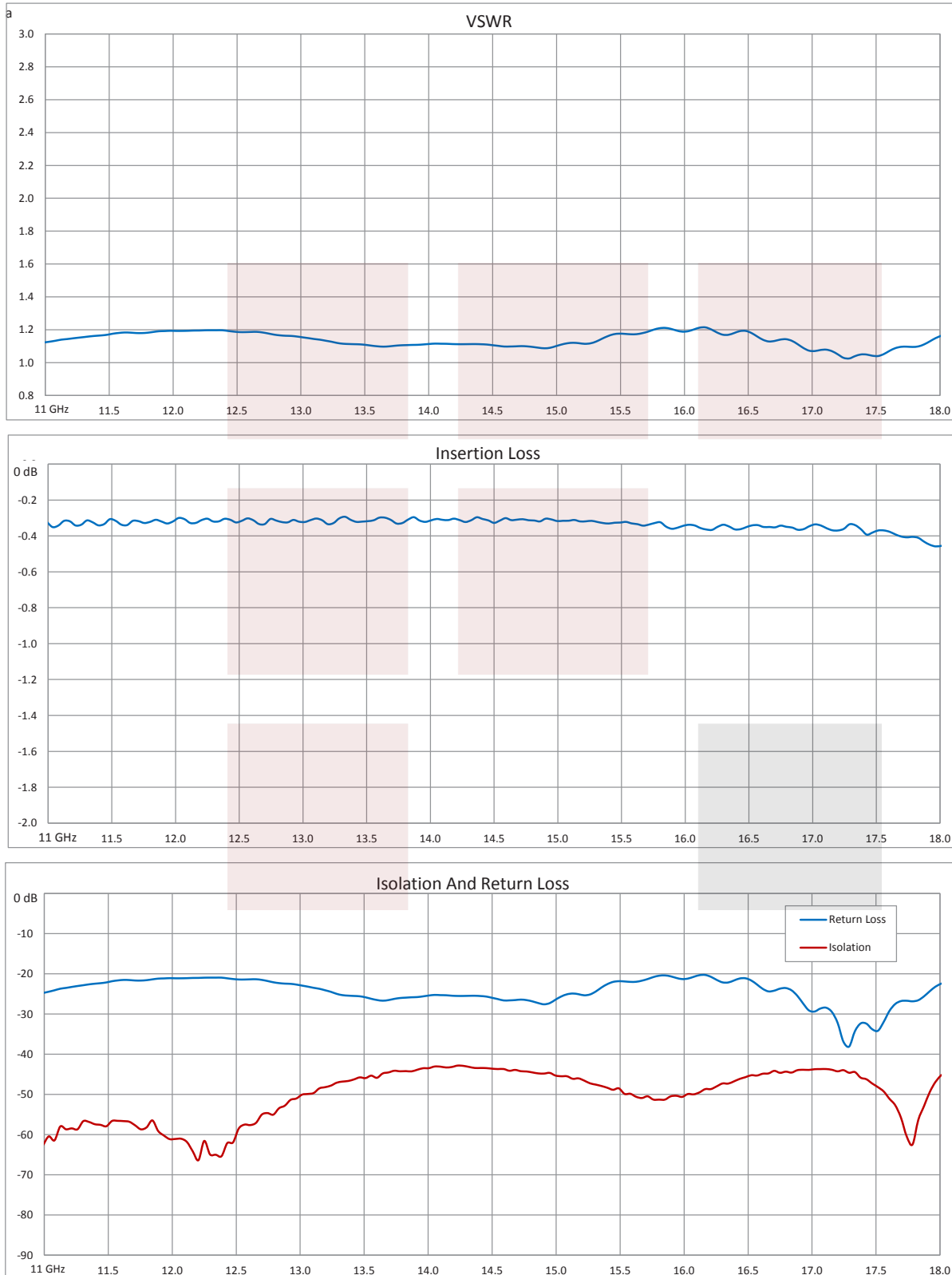
| | |
|-----------------|------------|
| RoHS Compliant | Yes |
| REACH Compliant | 12/17/2015 |

Plotted and Other Data

- Notes:
- Values at 25 °C, sea level

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Typical Performance Data



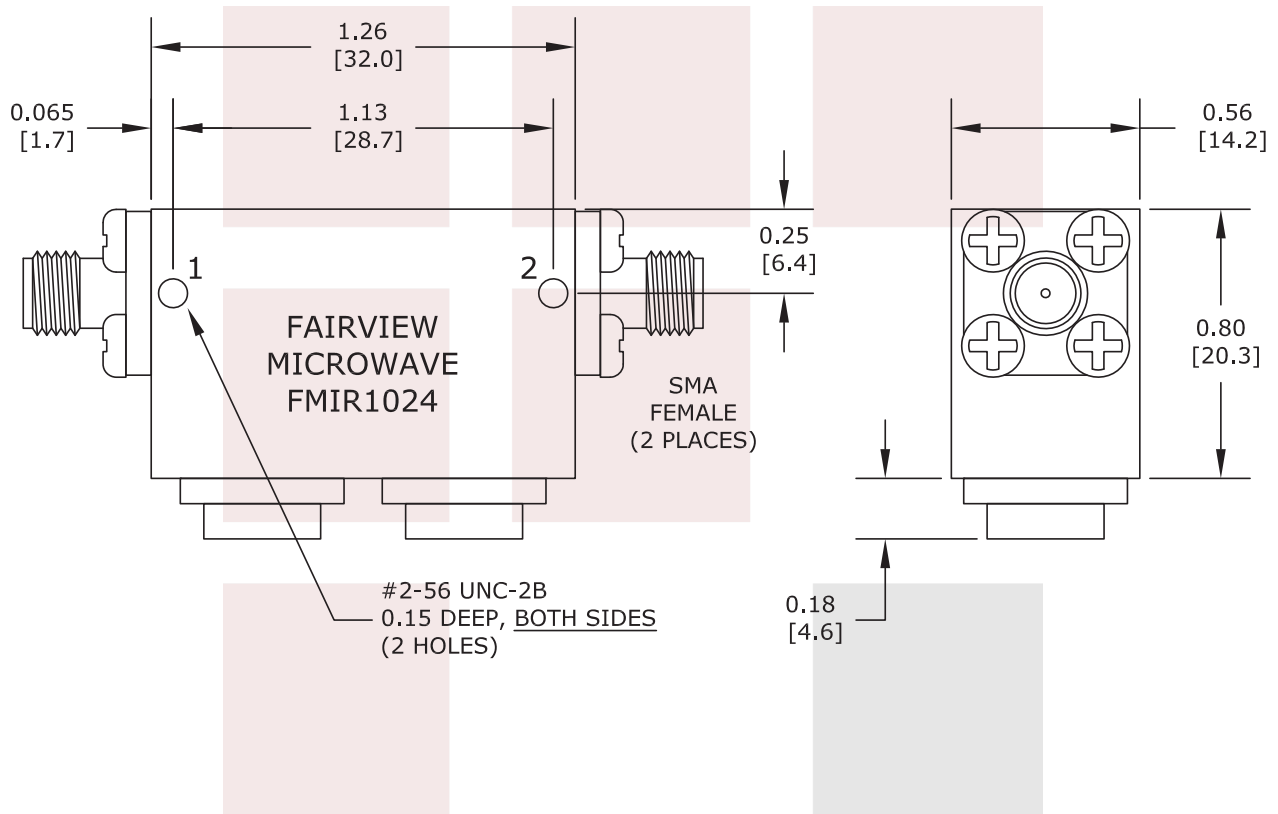
SMA Female Dual Junction Isolator With 40 dB Isolation From 11 GHz to 18 GHz And 5 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Female Dual Junction Isolator With 40 dB Isolation From 11 GHz to 18 GHz And 5 Watts FMIR1024](#)

URL: <http://www.fairviewmicrowave.com/sma-female-dual-junction-isolator-40db-isolation-18-ghz-5-watts-fmir1024-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 SMA Female Dual Junction Isolator With 40 dB Isolation From 11 GHz to 18 GHz And 5 Watts | | DWG NO FMIR1024 | | CAGE CODE 3FKR5 | |
| CAD FILE | 041216 | SHEET | SCALE | N/A | SIZE A 2233 |