

Isolator SMA Female With 18 dB Isolation From 2 GHz to 4 GHz Rated to 10 Watts

The SFI2040 is a single junction isolator offering a forward power rating of 10 Watts CW and reverse power rating of 1 Watt CW over an operational frequency band of 2 to 4 GHz. This coaxial isolator uses SMA female connectors on all ports and has a minimum of 18 dB 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 Microwave's isolators feature excellent insertion loss, high isolation and reliability.

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-------------------|-----|-----|-------|-------|
| Frequency Range | 2 | | 4 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 0.75 | dB |
| Isolation | 18 | | | dB |
| VSWR | | | 1.4:1 | |
| Forward Power, CW | | | 10 | Watts |
| Reverse Power, CW | | | 1 | Watts |

Electrical Specification Notes:

Values at 25°C, sea level.

Mechanical Specifications

Size

| | |
|---------------------------|---------------------|
| Length | 1.26 in [32 mm] |
| Width | 1.34 in [34.04 mm] |
| Height | 0.71 in [18.03 mm] |
| Weight | 0.1993 lbs [90.4 g] |
| Body Material and Plating | Aluminum |

Configuration

| | |
|---------------|-----------------|
| Design | Single Junction |
| Direction | 1 to 2 |
| Package Style | Connectorized |
| Connector 1 | SMA Female |
| Connector 2 | SMA Female |

Environmental Specifications

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

Plotted and Other Data

Notes:



Features:

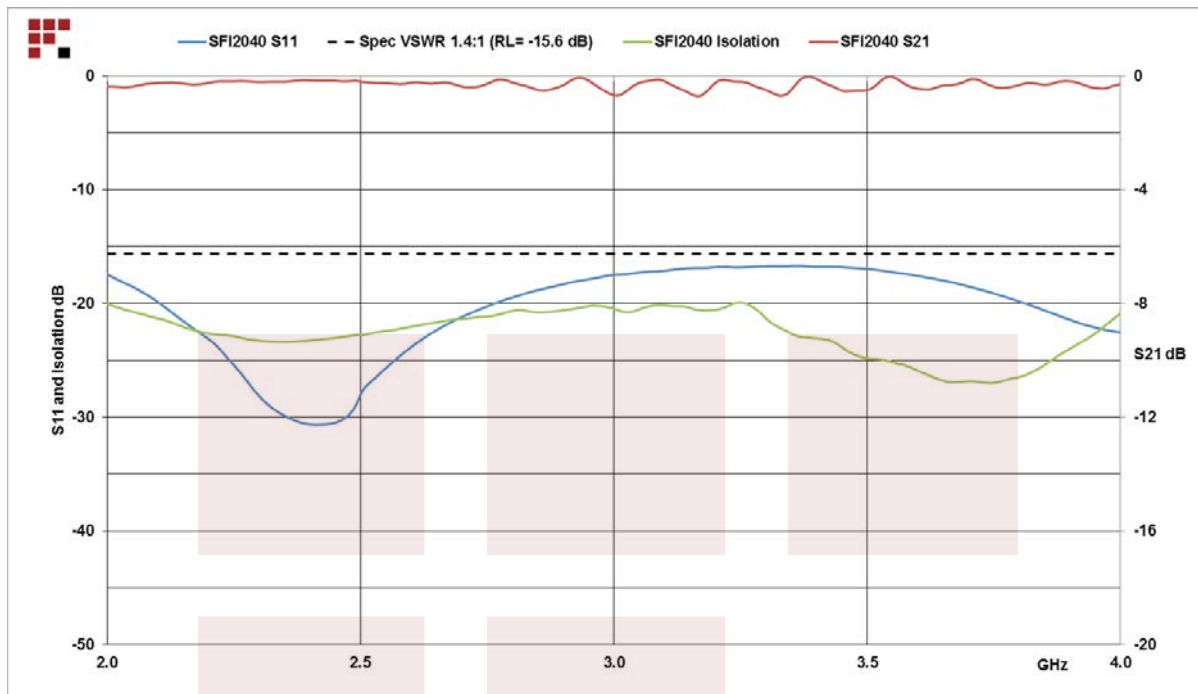
- 2 to 4 GHz Frequency Range
- Max Forward Power 10 Watts CW
- Max Reverse Power 1 Watt CW
- Insertion Loss < 0.75 dB
- VSWR < 1.4:1
- Isolation > 18 dB
- SMA Female Connectors

Applications:

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

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Typical Performance Data

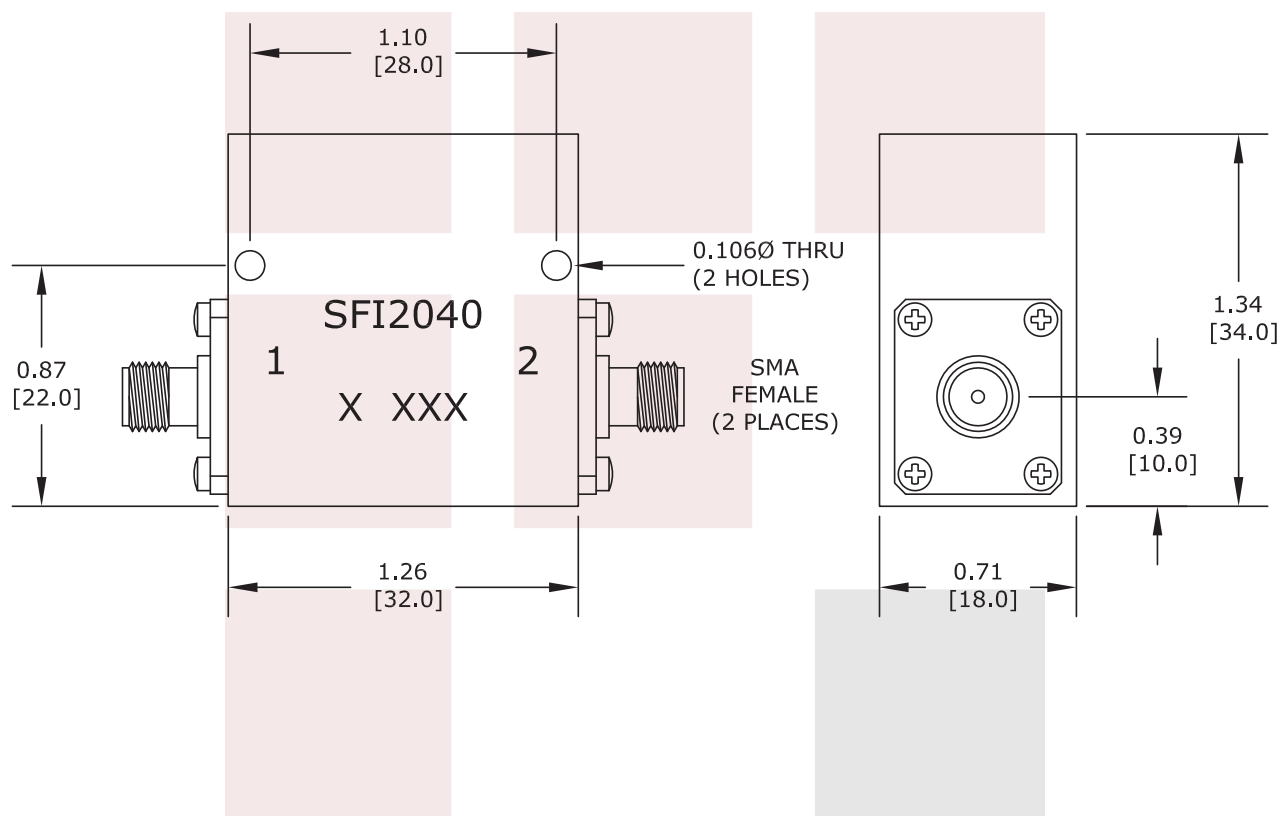


Isolator SMA Female With 18 dB Isolation From 2 GHz to 4 GHz Rated to 10 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Isolator SMA Female With 18 dB Isolation From 2 GHz to 4 GHz Rated to 10 Watts SFI2040](https://www.fairviewmicrowave.com/sma-isolator-18-db-isolation-2-4-ghz-0-watts-sfi2040-p.aspx)

URL: <https://www.fairviewmicrowave.com/sma-isolator-18-db-isolation-2-4-ghz-0-watts-sfi2040-p.aspx>

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STANDARD TOLERANCES

.X ±0.2
.XX ±0.1
.XXX ±0.05

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

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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

SFI2040

CAGE CODE

3FKR5

CAD FILE

080816

SHEET

SCALE

N/A

SIZE

A 2233