

Isolator SMA Female With 12 dB Isolation From 2 GHz to 10 GHz Rated to 10 Watts

The SFI0210 is a single junction isolator offering a forward and reverse power rating of 10 Watts CW over an operational frequency band of 2 to 10 GHz. This coaxial isolator uses SMA female connectors on all ports and has a minimum of 12 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 | | 10 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 2 | dB |
| Isolation | 12 | | | dB |
| VSWR | | | 1.45:1 | |
| Forward Power, CW | | | 10 | Watts |
| Reverse Power, CW | | | 10 | Watts |

Electrical Specification Notes:

Values at 25°C, sea level.

Mechanical Specifications

| | |
|---------------------------|-----------------------|
| Size | |
| Length | 3.2 in [81.28 mm] |
| Width | 1.75 in [44.45 mm] |
| Height | 0.63 in [16 mm] |
| Weight | 0.46826 lbs [212.4 g] |
| Body Material and Plating | Aluminum |

Configuration

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

Environmental Specifications

Temperature

| | |
|-----------------|------------------|
| Operating Range | +10 to +40 deg C |
|-----------------|------------------|

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

Plotted and Other Data

Notes:



Features:

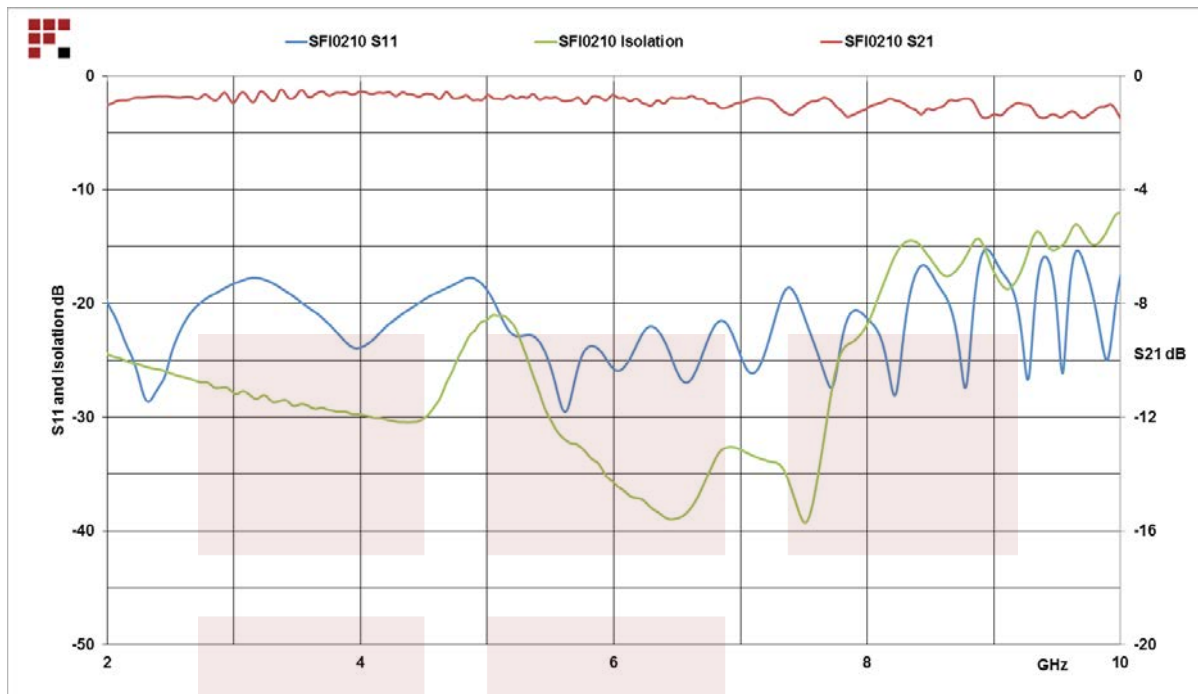
- 2 to 10 GHz Frequency Range
- Max Forward and Reverse Power 10 Watts CW
- Insertion Loss < 2 dB
- VSWR < 1.45:1
- Isolation > 12 dB
- SMA Female Connectors

Applications:

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

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Typical Performance Data

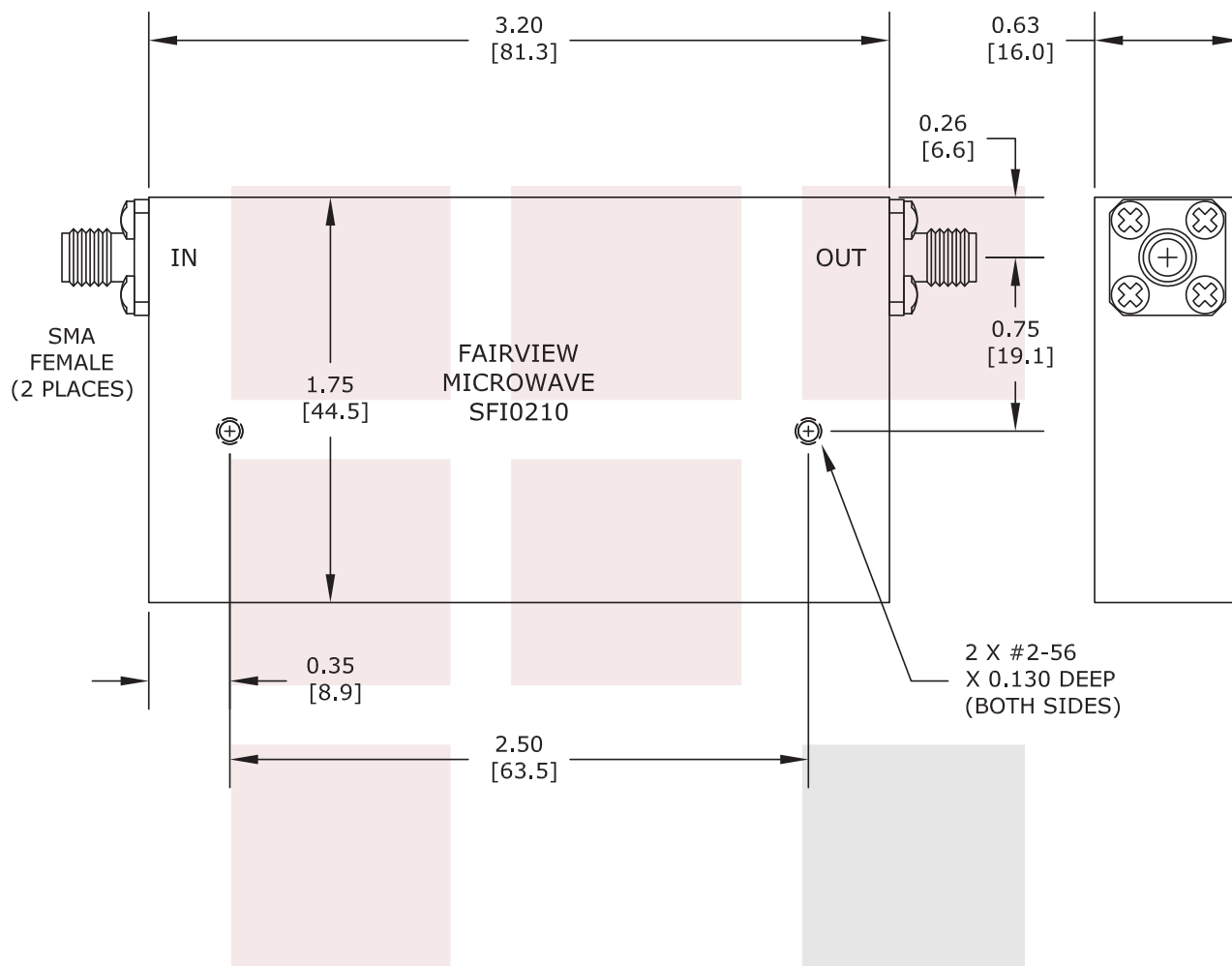


Isolator SMA Female With 12 dB Isolation From 2 GHz to 10 GHz Rated to 10 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Isolator SMA Female With 12 dB Isolation From 2 GHz to 10 GHz Rated to 10 Watts SFI0210](https://www.fairviewmicrowave.com/sma-isolator-13-db-isolation-2-10-ghz-10-watts-sfi0210-p.aspx)

URL: <https://www.fairviewmicrowave.com/sma-isolator-13-db-isolation-2-10-ghz-10-watts-sfi0210-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



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

SFI0210

CAGE CODE

3FKR5

CAD FILE

080816

SHEET

SCALE

N/A

SIZE

A 2233