

## **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	Тур	Мах	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	Watt

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 0.1985 lbs [90.04 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:

# SFI 2040 DATA SHEET



### Features:

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

## **Applications:**

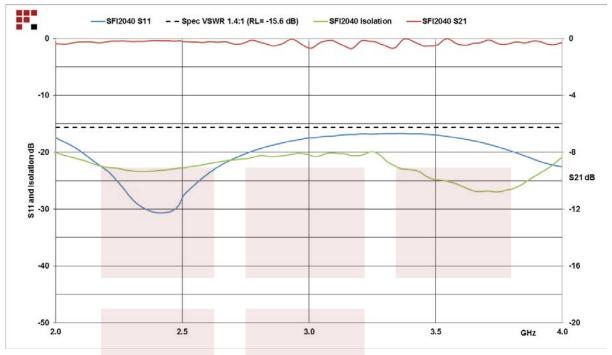
- Radar Systems
- Military
- Wireless Radio Systems
- Telecom Infrastructure
- Communication Systems
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  - Microwave Radio Systems

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## SFI 2040 DATA SHEET

### **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 Lewisville, Texas. Fairview Microwave is RF on-demand.

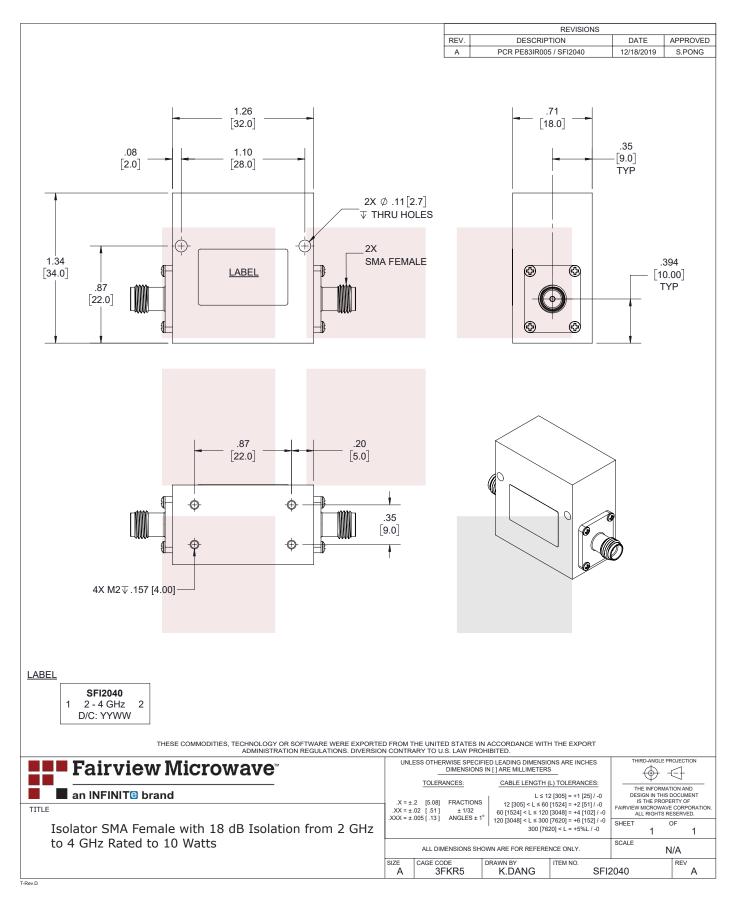
For additional information on this product, please click the following link: Isolator SMA Female with 18 dB Isolation from 2 GHz to 4 GHz Rated to 10 Watts SFI2040

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

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