

SFI0818 DATA SHEET

Isolator SMA Female With 16 dB Isolation From 8 GHz to 18 GHz Rated to 10 Watts

The SFI0818 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 8 to 18 GHz. This coaxial isolator uses SMA female connectors on all ports and has a minimum of 16 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	8		18	GHz
Impedance		50		Ohms
Insertion Loss			1.25	dB
Isolation	16			dB
VSWR			1.5:1	
Forward Power, CW			10	Watts
Reverse Power, CW			1	Watts

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Size	
Length	0.47 in [11.94 mm]
Width	0.67 in [17.02 mm]
Height	0.47 in [11.94 mm]
Weight	0.03527 lbs [16 g]
Body Material and Plati	ng 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:

- 8 to 18 GHz Frequency Range
- Max Forward Power 10 Watts CW
- Max Reverse Power 1 Watt CW
- Insertion Loss < 1.25 dB
- VSWR < 1.5:1
- Isolation > 16 dB
- SMA Female Connectors

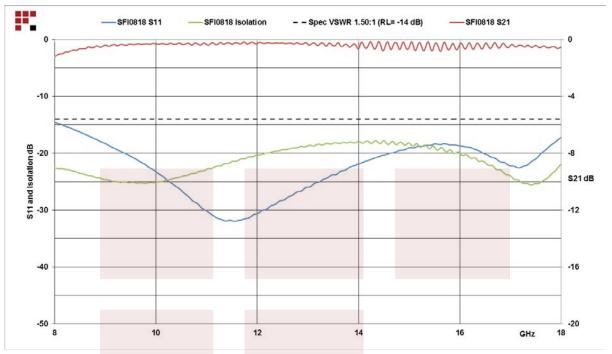
Applications:

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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com



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Typical Performance Data

Isolator SMA Female With 16 dB Isolation From 8 GHz to 18 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 16 dB Isolation From 8 GHz to 18 GHz Rated to 10 Watts SFI0818

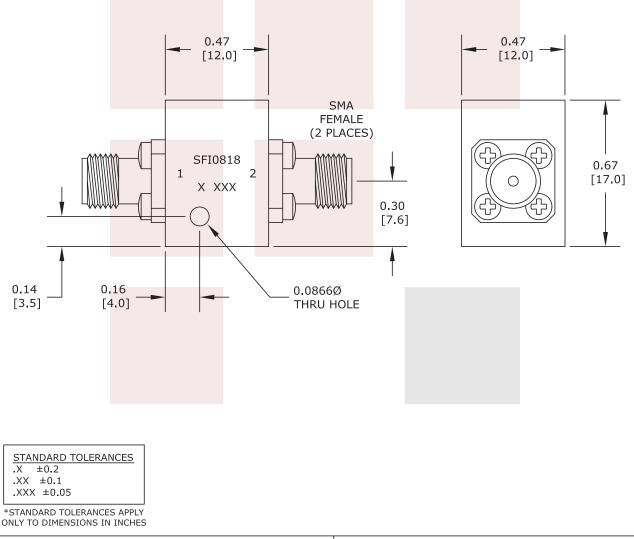
URL: https://www.fairviewmicrowave.com/sma-isolator-16-db-isolation-8-18-ghz-0-watts-sfi0818-p.aspx

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FAIRVIEW MICROWAVE INC.	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].					
Isolator SMA Female With 16 dB Isolation From 8 GHz	DWG NO SFI0818			CAGE CODE 3FKR5		
to 18 GHz Rated to 10 Watts	CAD FILE 080416	SHEET	SCAL	E N/A	SIZE A	2233

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