

SFI0820M DATA SHEET

Isolator SMA Female With 15 dB Isolation From 8 GHz to 20 GHz Rated to 10 Watts

The SFI0820M is a single junction isolator offering a forward power rating of 10 Watts CW over an operational frequency band of 8 to 20 GHz. This coaxial isolator uses SMA female connector for input port, SMA male for output port and has a minimum of 15 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	Max	Units
Frequency Range	8		20	GHz
Impedance		50		Ohms
Insertion Loss		1		dB
Isolation	15			
VSWR			1.45:1	
Forward Power, CW			10	Watts

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

Mechanical Specifications

Size			
Length		0.5 in	[12.7 mm]
Width		0.57 iı	n [14.48 mm]
Height		0.39 iı	n [9.91 mm]
Weight		0.032	lbs [14.51 g]
Body Material and Platin	ng	Alumir	num
Configuration			
Design		Single	Junction
Package Style		Conne	ctorized
Connector 1		SMA F	emale

Environmental Specifications

Temperature Operating Range

Connector 2

-40 to +70 deg C

SMA Male

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- 8 to 20 GHz Frequency Range
- Max Forward Power 10 Watts CW
- Insertion Loss < 1 dB
- VSWR < 1.45:1
- Isolation > 15 dB
- SMA Female Input
- SMA Male Output

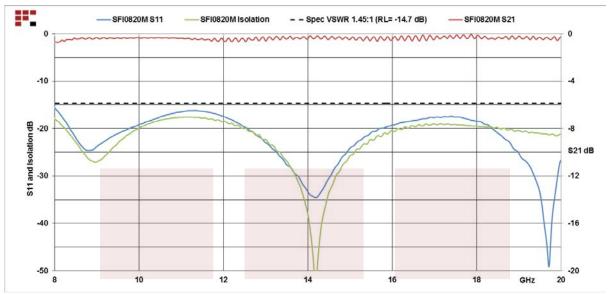
Applications:

- 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







Typical Performance Data

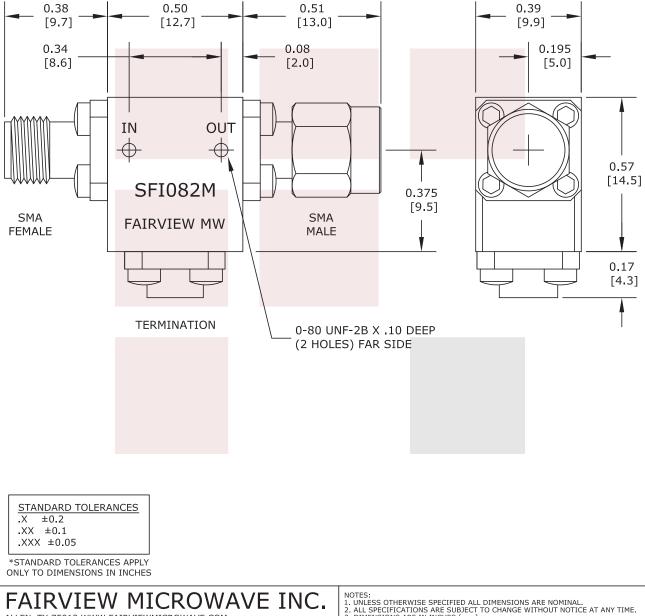
Isolator SMA Female With 15 dB Isolation From 8 GHz to 20 GHz Rated to 10 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Isolator SMA Female With 15 dB Isolation From 8 GHz to 20 GHz Rated to 10 Watts SFI0820M

URL: https://www.fairviewmicrowave.com/sma-isolator-15-db-isolation-8-20-ghz-0-watts-sfi0820m-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.





SFI0820M DATA SHEET

ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. JUNENSIONS ARE IN INCHES [mm].					
Isolator SMA Female With 15 dB Isolation From 8 GHz to 20 GHz Rated to 10 Watts	DWG NO SFI0820M			CAGE CODE 3FKR5		
	CAD FILE 0808:	6 SHEET	SCAL	.E N/A	SIZE A	2233

1130 Junction Dr. #100 Allen, TX 75013 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689