



Isolator SMA Female With 20 dB Isolation From 17.3 GHz to 22 GHz Rated to 10 Watts

The SFI1822 is a single junction isolator offering a forward power rating of 10 Watts CW and reverse power rating of 2 Watts CW over an operational frequency band of 17.3 to 22 GHz. This coaxial isolator uses SMA female connectors on all ports and has a minimum of 20 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	17.3		22	GHz	
Impedance		50		Ohms	
Insertion Loss			0.9	dB	
Isolation	20			dB	
VSWR			1.25:1		
Forward Power, CW			10	Watts	
Forward Power, Peak			30	Watts	
Reverse Power, CW			2	Watts	

Electrical Specification Notes:

Values at 25°C, sea level.

Mechanical Specifications

Size

 Length
 0.5 in [12.7 mm]

 Width
 0.7 in [17.78 mm]

 Height
 0.5 in [12.7 mm]

 Weight
 0.0455 lbs [20.64 g]

Configuration

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

Environmental Specifications

Temperature

Operating Range -20 to +65 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- 17.3 to 22 GHz Frequency Range
- Max Forward Power 10 Watts CW
- Max Reverse Power 2 Watts CW
- Insertion Loss < 0.9 dB
- VSWR < 1.25:1
- Isolation > 20 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

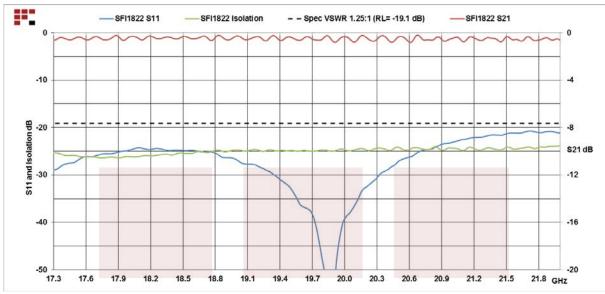
Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Typical Performance Data



Isolator SMA Female With 20 dB Isolation From 17.3 GHz to 22 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.

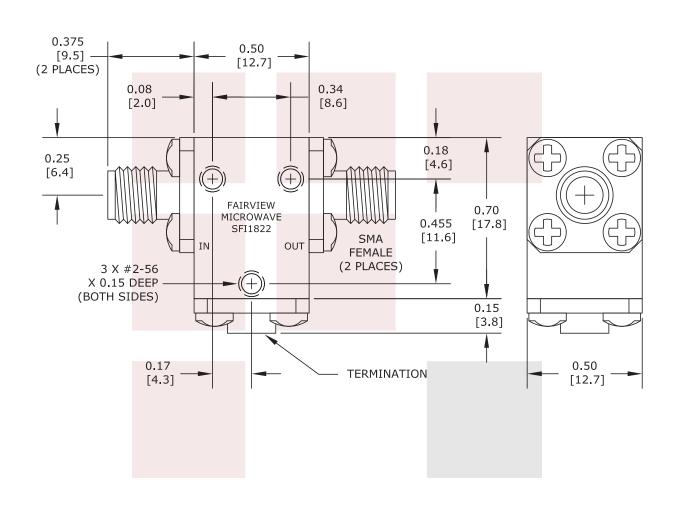
For additional information on this product, please click the following link: Isolator SMA Female With 20 dB Isolation From 17.3 GHz to 22 GHz Rated to 10 Watts SFI1822

URL: https://www.fairviewmicrowave.com/sma-isolator-20-db-isolation-17.3-22-ghz-10-watts-sfi1822-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

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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 20 dB Isolation From 17.3 GHz to 22 GHz Rated to 10 Watts	DWG NO SFI1822			CAGE CODE 3FKR5		
	CAD FILE 072916	SHEET	SCAL	E N/A	SIZE A	2233