

SFI0712 DATA SHEET

Isolator SMA Female With 18 dB Isolation From 7 GHz to 12.4 GHz Rated to 10 Watts

The SFI0712 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 7 to 12.4 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	7		12.4	GHz
Impedance		50		Ohms
Insertion Loss			0.5	dB
Isolation	18			dB
VSWR			1.3:1	
Forward Power, CW			10	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	0.75 in [19.05 mm]
Height	0.5 in [12.7 mm]
Weight	0.03924 lbs [17.8 g]
Body Material and Plating	Aluminum

ConfigurationDesignSingle JunctionDirection1 to 2Package StyleConnectorizedConnector 1SMA FemaleConnector 2SMA Female

Environmental Specifications

Temperature Operating Range

-20 to +60 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- 7 to 12.4 GHz Frequency Range
- Max Forward Power 10 Watts CW
- Max Reverse Power 2 Watts CW
- Insertion Loss < 0.5 dB
- VSWR < 1.3:1
- Isolation > 18 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

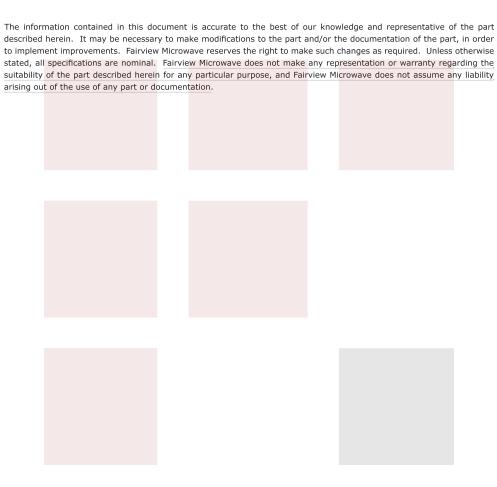




Isolator SMA Female With 18 dB Isolation From 7 GHz to 12.4 GHz Rated to 10 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

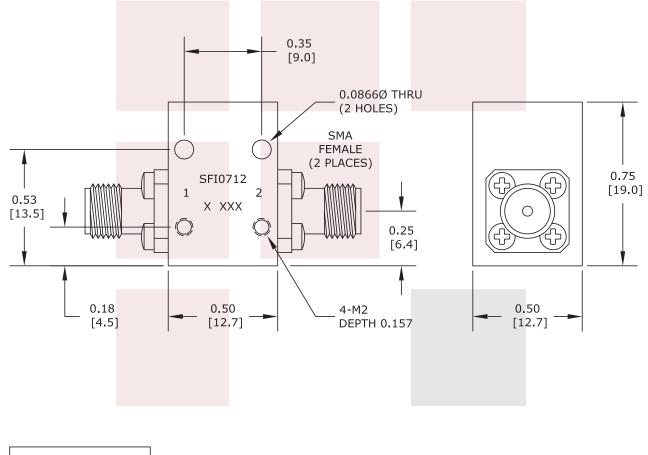
For additional information on this product, please click the following link: Isolator SMA Female With 18 dB Isolation From 7 GHz to 12.4 GHz Rated to 10 Watts SFI0712

URL: https://www.fairviewmicrowave.com/sma-isolator-18-db-isolation-7-12.4-ghz-10-watts-sfi0712-p.aspx









STANDARD TOLERANCES .X ±0.2 .XX ±0.1 .XXX ±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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 18 dB Isolation From 7 GHz to 12.4 GHz Rated to 10 Watts	DWG NO SFI0712			CAGE CODE 3FKR5			
	CAD FILE 080416	SHEET	SCAL	E N/A	SIZE A	2233	

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