

SFI 1724S DATA SHEET

Isolator SMA Female with 18 dB Isolation from 1.7 GHz to 2.4 GHz Rated to 10 Watts

The SFI1724S 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 1.7 to 2.4 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	Max	Units
Frequency Range	1.7		2.4	GHz
Impedance		50		Ohms
Insertion Loss			0.5	dB
Isolation	18			dB
VSWR			1.35:1	
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
 0.71 in [18.03 mm]

 Height
 1.34 in [34.04 mm]

 Weight
 0.2005 lbs [90.95 g]

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:

- 1.7 to 2.4 GHz Frequency Range
- Max Forward 10 Watts CW
- Max Reverse Power 1 Watt CW
- Insertion Loss < 0.5 dB
- VSWR < 1.35:1
- Isolation > 18 dB
- SMA Female Connectors

Applications:

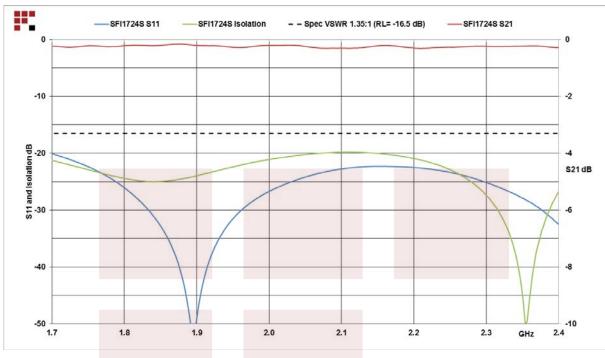
- Radar Systems
- Military
- Wireless Radio Systems
- Telecom Infrastructure
- Communication Systems
- R&D Labs
- Microwave Radio Systems

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 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 18 dB Isolation from 1.7 GHz to 2.4 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 1.7 GHz to 2.4 GHz Rated to 10 Watts SFI1724S

URL: https://www.fairviewmicrowave.com/sma-circulator-20-db-isolation-17-24-ghz-sfi1724s-p.aspx

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