

Isolator 2.92mm Female With 20 dB Isolation From 27 GHz to 31 GHz Rated to 5 Watts

The SFI2731 is a single junction isolator offering a forward power rating of 5 Watts CW and reverse power rating of 2 Watts CW over an operational frequency band of 27 to 31 GHz. This coaxial isolator uses 2.92mm 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	Typ	Max	Units
Frequency Range	27		31	GHz
Impedance		50		Ohms
Insertion Loss			1.25	dB
Isolation	20			dB
VSWR			1.25:1	
Forward Power, CW			5	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	0.052 lbs [23.59 g]

Configuration

Design	Single Junction
Package Style	Connectorized
Connector 1	2.92mm Female
Connector 2	2.92mm Female

Environmental Specifications

Temperature

Operating Range	-20 to +65 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:



Features:

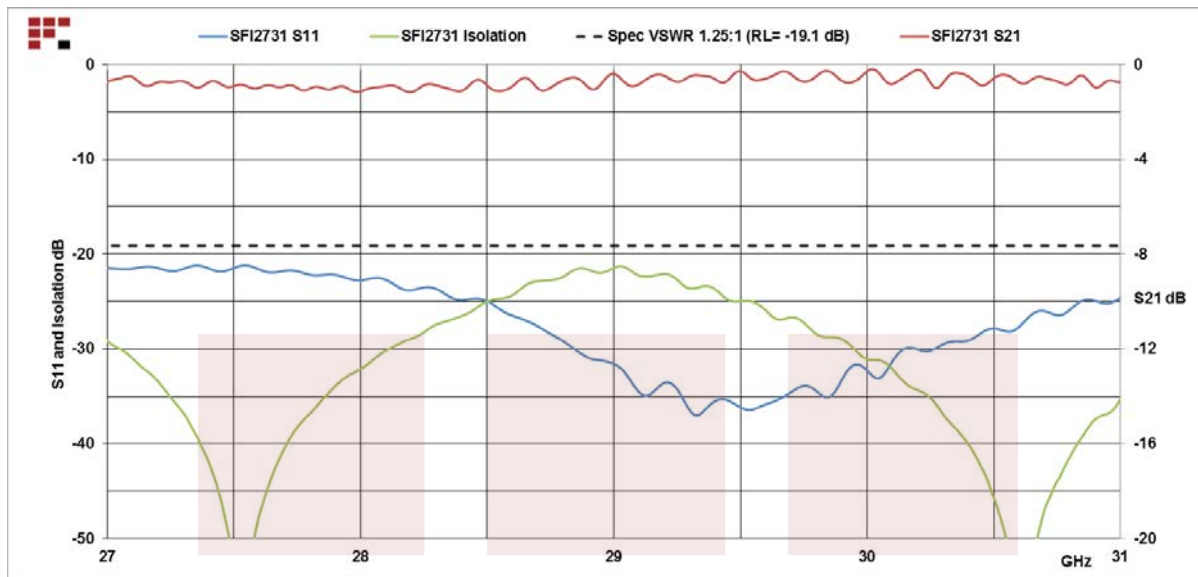
- 27 to 31 GHz Frequency Range
- Max Forward Power 5 Watts CW
- Max Reverse Power 2 Watts CW
- Insertion Loss < 1.25 dB
- VSWR < 1.25:1
- Isolation > 20 dB
- 2.92mm Female Connectors

Applications:

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

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Typical Performance Data

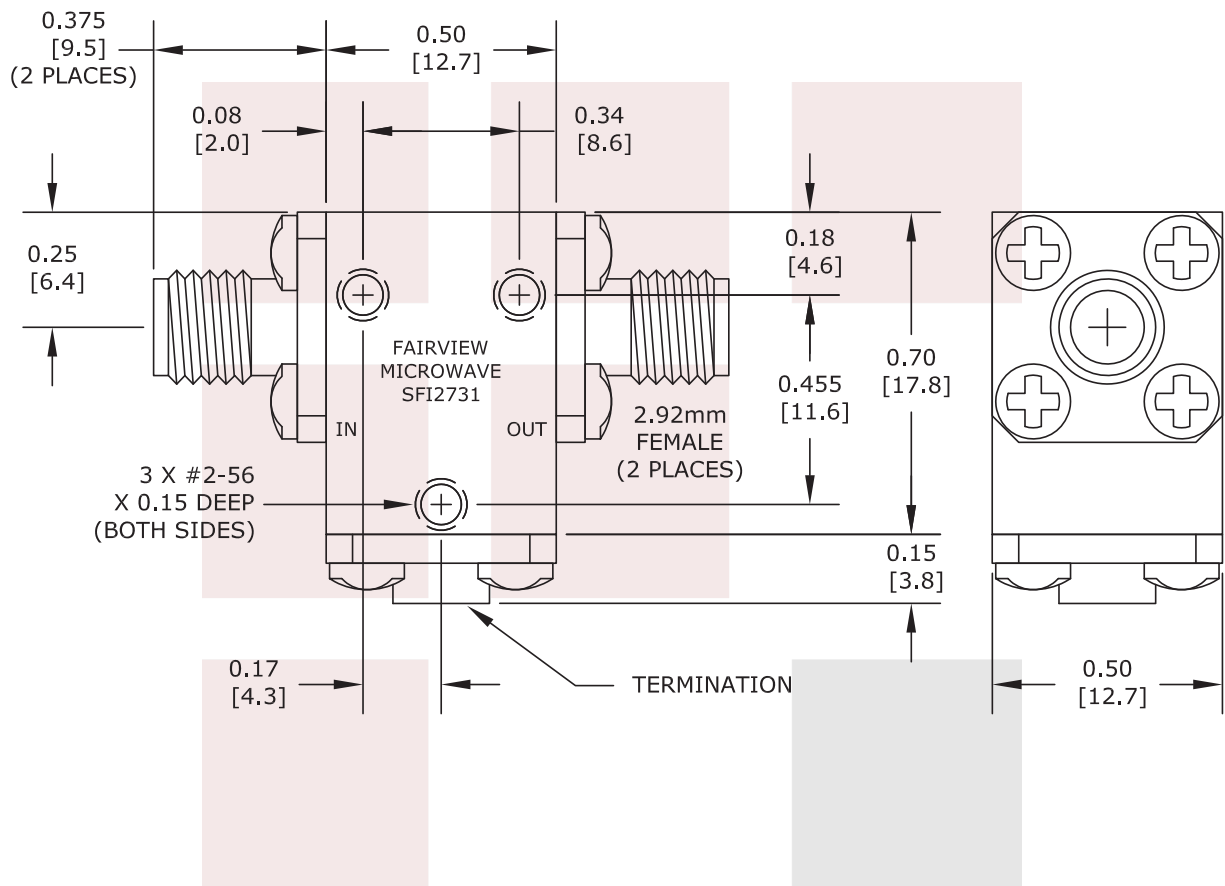


Isolator 2.92mm Female With 20 dB Isolation From 27 GHz to 31 GHz Rated to 5 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Isolator 2.92mm Female With 20 dB Isolation From 27 GHz to 31 GHz Rated to 5 Watts SFI2731](https://www.fairviewmicrowave.com/2.92mm-isolator-20-db-isolation-27-31-ghz-5-watts-sfi2731-p.aspx)

URL: <https://www.fairviewmicrowave.com/2.92mm-isolator-20-db-isolation-27-31-ghz-5-watts-sfi2731-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

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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].

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DWG NO	SFI2731	CAGE CODE	3FKR5
CAD FILE	072916	SHEET	SCALE N/A SIZE A 2233