

**Isolator N Female With 17 dB Isolation From 1.7 GHz to 2.2 GHz Rated to 10 Watts**

The SFI1722N is a single junction isolator offering a forward and reverse power rating of 10 Watts CW over an operational frequency band of 1.7 to 2.2 GHz. This coaxial isolator uses N female connectors on all ports and has a minimum of 17 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	1.7		2.2	GHz
Impedance		50		Ohms
Insertion Loss			0.5	dB
Isolation	17			dB
VSWR			1.25:1	
Forward Power, CW			10	Watts
Reverse Power, CW			10	Watts

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

**Mechanical Specifications**

<b>Size</b>	
Length	2.5 in [63.5 mm]
Width	2.5 in [63.5 mm]
Height	1.02 in [25.91 mm]

**Configuration**

Design	Single Junction
Direction	1 to 2
Package Style	Connectorized
Connector 1	N Female
Connector 2	N Female

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-20 to +65 deg C

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:



**Features:**

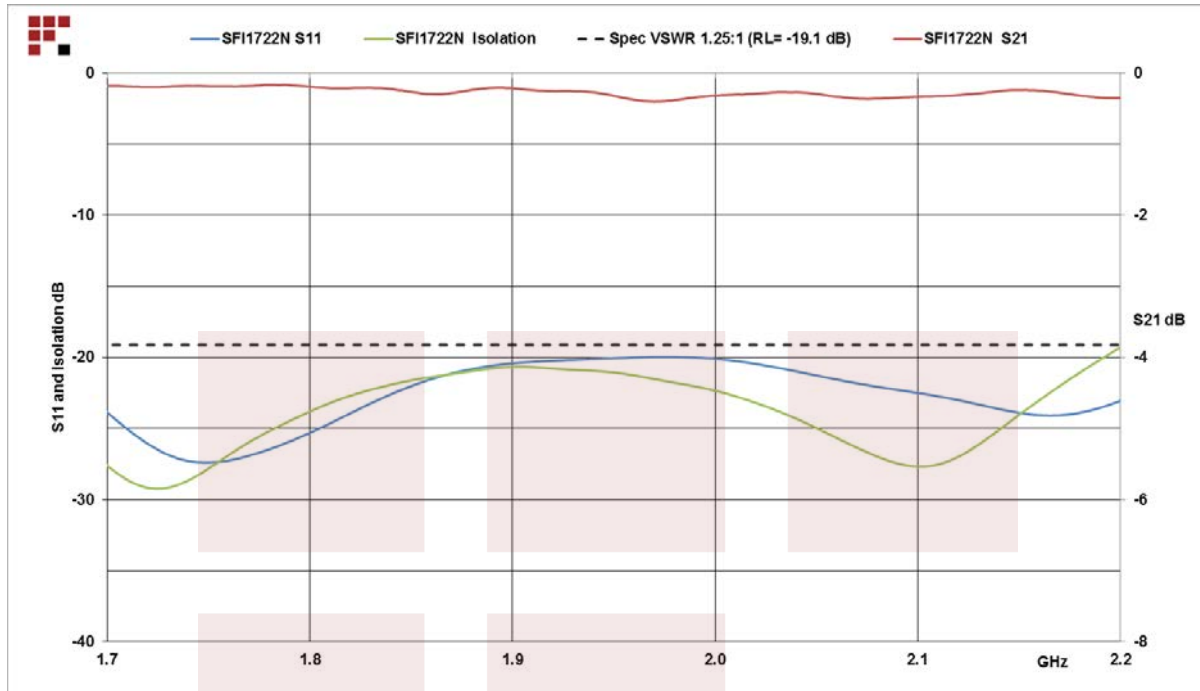
- 1.7 to 2.2 GHz Frequency Range
- Max Forward and Reverse Power 10 Watts CW
- Insertion Loss < 0.5 dB
- VSWR < 1.25:1
- Isolation > 17 dB
- N Female Connectors

**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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**Typical Performance Data**

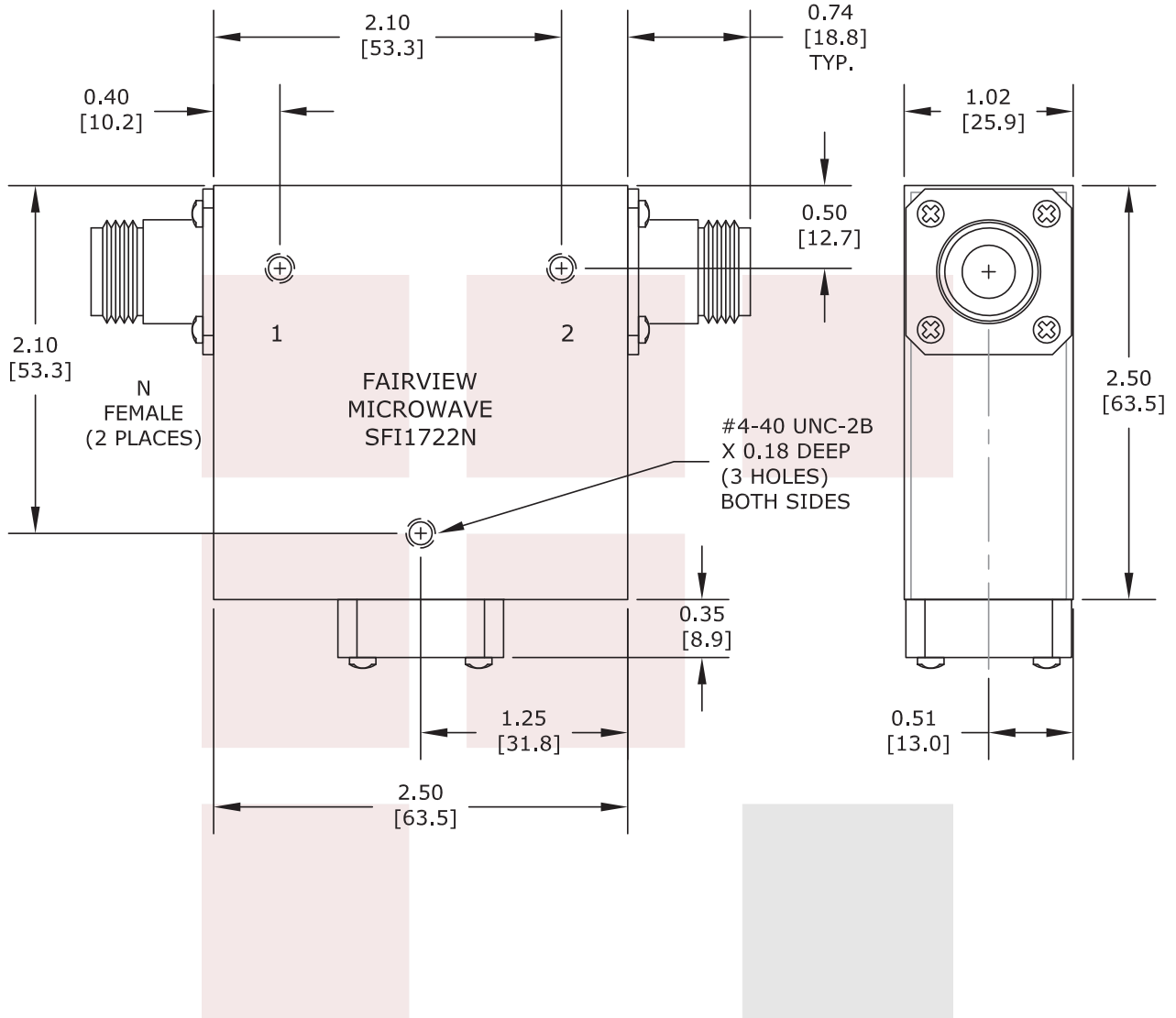


Isolator N Female With 17 dB Isolation From 1.7 GHz to 2.2 GHz Rated to 10 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Isolator N Female With 17 dB Isolation From 1.7 GHz to 2.2 GHz Rated to 10 Watts SFI1722N](#)

URL: <https://www.fairviewmicrowave.com/n-isolator-18-db-isolation-1.7-2.2-ghz-10-watts-sfi1722n-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

<b>FAIRVIEW MICROWAVE INC.</b> 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].			
TITLE Isolator N Female With 17 dB Isolation From 1.7 GHz to 2.2 GHz Rated to 10 Watts		DWG NO SFI1722N		CAGE CODE 3FKR5	
CAD FILE	080216	SHEET	SCALE	N/A	SIZE A 2233