

**Circulator SMA Female With 17 dB Isolation From 18 GHz to 26.5 GHz Rated to 25 Watts**

Fairview Microwave carries a broad selection of circulators to fit your needs. These unique devices allow two different direction signals to share the same channel. The classic use of this three port device is for routing signals between an antenna and a transceiver, allowing the receive signal to enter from the antenna (port 1) and exit to the receiver (port 2) while the transmit signal enters from the transmitter (port 3) and exits to the antenna (port 1). The circulator can also be used as an isolator by placing a matched load into one of the ports. These components can be used in antenna transmitting and receiving, radar, amplifier systems and any application that requires isolation from a signal reflection and the ability to send signals in opposite directions down a single channel. These circulators feature excellent insertion loss, high isolation and reliability.

The SFC1826 is a single junction circulator that operates from 18 to 26.5 GHz and can handle up to 25 Watts (CW) in the forward direction. The coaxial part uses SMA female connectors on all ports and has electrical specifications of 1.4:1 max VSWR, 17 dB min isolation and 1 dB max insertion loss. The package is REACH and RoHS certified.



**Features:**

- Single Junction Circulator
- 18 to 26.5 GHz Frequency Range
- Max Forward Power 25W (CW)
- Insertion Loss < 1 dB
- VSWR < 1.4:1
- Isolation > 17 dB
- SMA Female Connectors

**Applications:**

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

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	18		26.5	GHz
Impedance		50		Ohms
Insertion Loss			1	dB
Isolation	17			dB
VSWR			1.4:1	
Forward Power, CW			25	Watts

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

**Mechanical Specifications**

<b>Size</b>	
Length	0.5 in [12.7 mm]
Width	0.5 in [12.7 mm]
Height	0.57 in [14.48 mm]
Weight	0.02998 lbs [13.6 g]
Body Material and Plating	Aluminum

<b>Configuration</b>	
Design	Single Junction
Package Style	Connectorized
Connector 1	SMA Female
Connector 2	SMA Female
Connector 3	SMA Female

**Environmental Specifications**

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant	Yes
REACH Compliant	12/17/2015

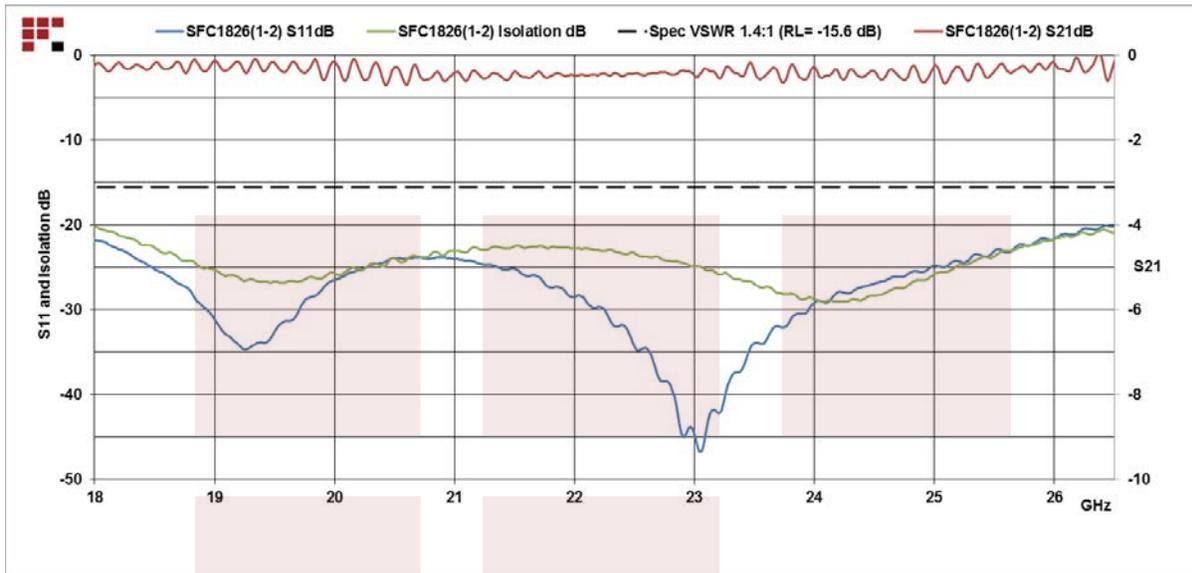
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**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

**Typical Performance Data**

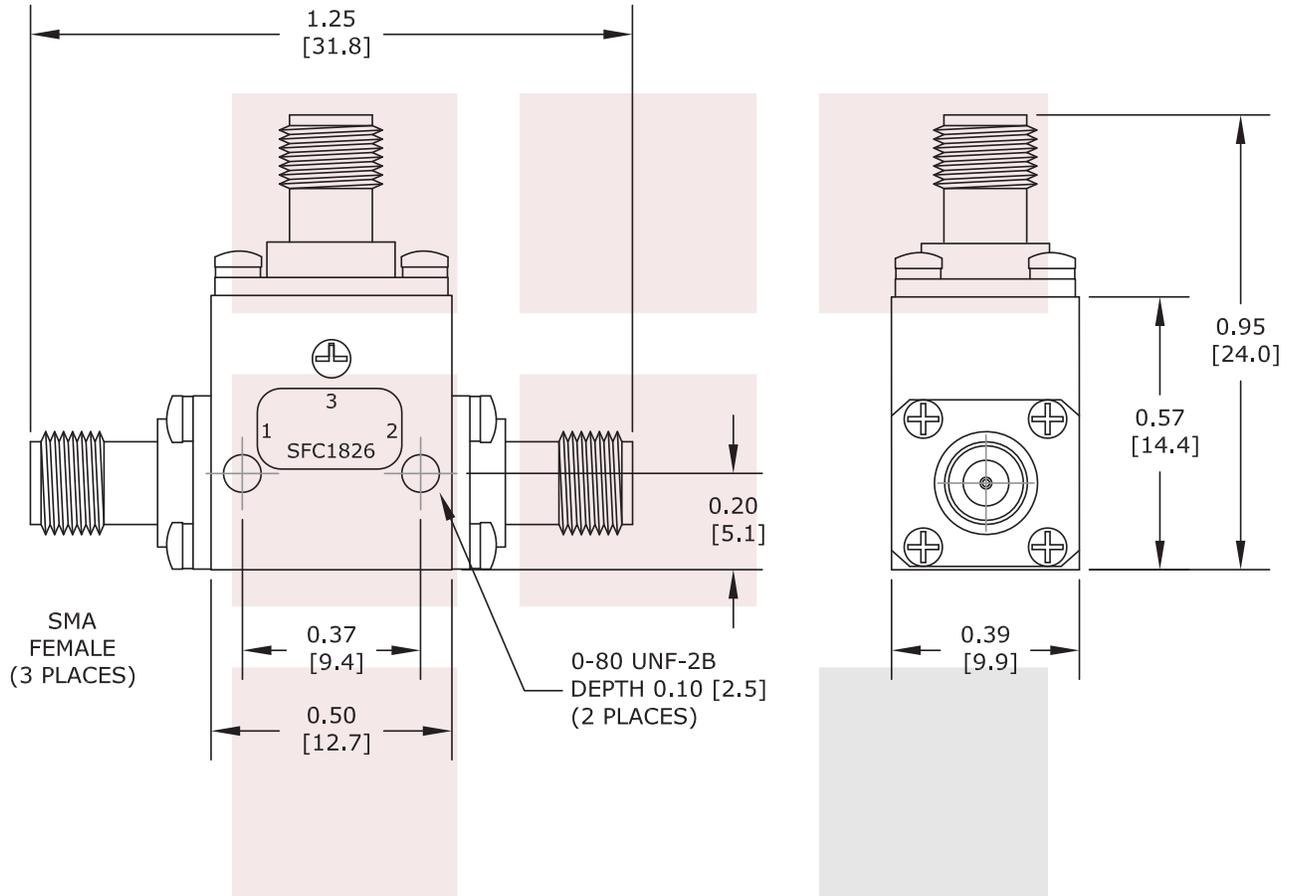


Circulator SMA Female With 17 dB Isolation From 18 GHz to 26.5 GHz Rated to 25 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Circulator SMA Female With 17 dB Isolation From 18 GHz to 26.5 GHz Rated to 25 Watts SFC1826](http://www.fairviewmicrowave.com/sma-circulator-17-db-isolation-1.8-26.5-ghz-sfc1826-p.aspx)

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TITLE Circulator SMA Female With 17 dB Isolation From 18 GHz to 26.5 GHz Rated to 25 Watts		DWG NO SFC1826		CAGE CODE 3FKR5	
CAD FILE	061716	SHEET	SCALE	N/A	SIZE A 2233