

SFC0780S DATA SHEET

Circulator SMA Female With 18 dB Isolation From 700 MHz to 800 MHz Rated to 10 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 SFC0780S is a single junction circulator that operates from 700 to 800 MHz and can handle up to 10 Watts (CW) in the forward direction. The coaxial part uses SMA female connectors on all ports and has electrical specifications of 18 dB min isolation, 0.5 dB typ insertion loss and 1.25:1 max VSWR. The package is RoHS compliant.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	700		800	MHz
Impedance		50		Ohms
Insertion Loss		0.5		dB
Isolation	18			dB
VSWR			1.25:1	
Forward Power, CW			10	Watts

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
 0.209 lbs [94.8 g]

Body Material and Plating Aluminum

Configuration

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 for current document)

RoHS Compliant Yes



Features:

- Single Junction Circulator
- 700 to 800 MHz Frequency Range
- Max Forward Power 10W (CW)
- Insertion Loss 0.5 dB Typ
- VSWR < 1.25:1
- Isolation > 18 dB
- SMA Female Connectors

Applications:

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

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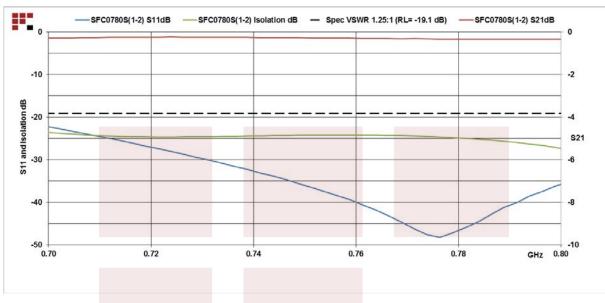




Plotted and Other Data

Notes:

Typical Performance Data



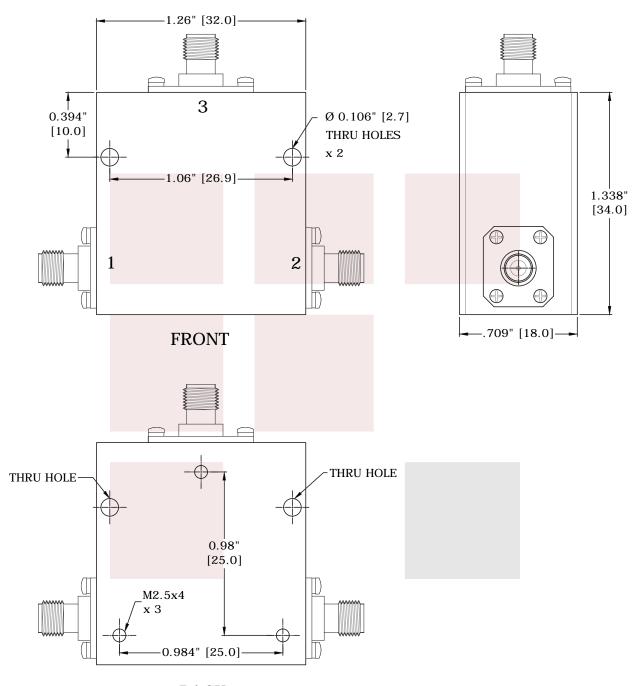
Circulator SMA Female With 18 dB Isolation From 700 MHz to 800 MHz Rated to 10 Watts from Fairview Microwave is instock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Circulator SMA Female With 18 dB Isolation From 700 MHz to 800 MHz Rated to 10 Watts SFC0780S

URL: http://www.fairviewmicrowave.com/sma-circulator-18-db-isolation-700-800-mhz-sfc0780s-p.aspx

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Circulator SMA Female With 18 dB Isolation From 700 MHz to 800 MHz Rated to 10 Watts	DWG NO SFC0780S			CAGE CODE 3FKR5			
	CAD FILE 012216	SHEET	SCAL	E N/A	SIZE A	5568	