

SFC2040A DATA SHEET

Circulator SMA Female With 16 dB Isolation From 2 GHz to 4 GHz 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 SFC2040A is a single junction circulator that operates from 2 to 4 GHz and can handle up to 10 Watts (CW) in the forward direction. The coaxial part uses SMA female connectors on all ports and has typical electrical specifications of 1.4:1 VSWR, 16 dB isolation and 0.75 dB insertion loss. The package is RoHS compliant.

Electrical Specifications

Min	Тур	Max	Units
2		4	GHz
	50		Ohms
	0.75		dB
	16		dB
	1.4:1		
		10	Watts
	Min 2	2 50 0.75 16	2 4 50 0.75 16 1.4:1

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

Mechanical Specifications

Size				
Length			[32 mm]	
Width			[18.03 mm]	
Height		1.26 in	[32 mm]	
Weight		0.201 lbs [91.17 g]		
Body Material and Plati	ng	Alumin	um	
Configuration				
Design		Single Junction		
Package Style		Connec	torized	

Package Style Connector 1 Connector 2 Connector 3 Single Junction Connectorized SMA Female SMA Female SMA Female

Environmental Specifications

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

Yes



Features:

- Single Junction Circulator
- 2 to 4 GHz Frequency Range
- Max Forward Power 10W (CW)
- Insertion Loss 0.75 dB Typ
- VSWR 1.4:1 Typ
- Isolation 16 dB Typ
- SMA Female Connectors

Applications:

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

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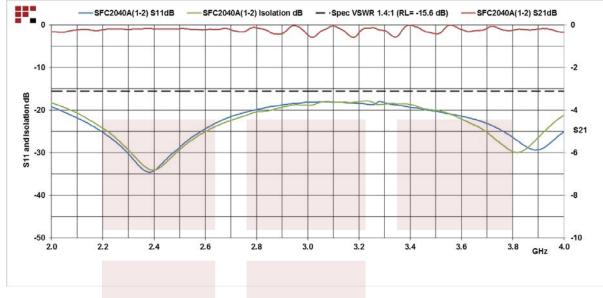




Plotted and Other Data

Notes:

Typical Performance Data



Circulator SMA Female With 16 dB Isolation From 2 GHz to 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 Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Circulator SMA Female With 16 dB Isolation From 2 GHz to 4 GHz Rated to 10 Watts SFC2040A

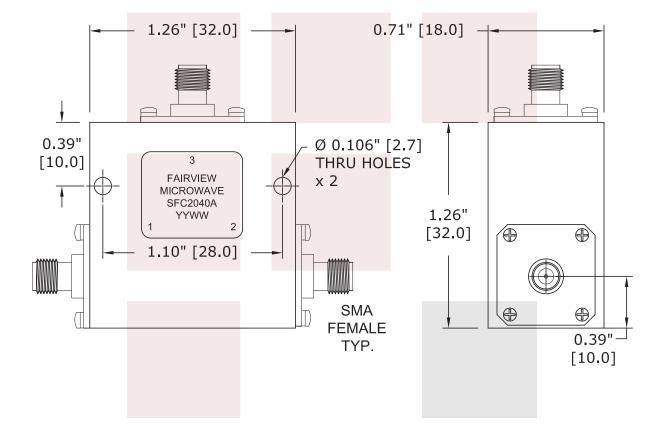
URL: http://www.fairviewmicrowave.com/sma-circulator-16-db-isolation-2-4-ghz-sfc2040a-p.aspx

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FAIRVIEW MICROWAVE INC.	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].					
Circulator SMA Female With 16 dB Isolation From 2 GHz to 4 GHz Rated to 10 Watts	DWG NO SFC2040A			CAGE CODE 3FKR5		
	CAD FILE 042716	SHEET	SCAL	E N/A	SIZE A	3045

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