



Dual Junction Circulator SMA Female With 36 dB Isolation From 2 GHz to 4 GHz Rated to 10 Watts

The FMCR1017 is a dual junction circulator offering 36 dB minimum dual junction isolation over a frequency band of 2 to 4 GHz. This coaxial part uses SMA female connectors on all ports and has a power rating of 10 watts in the forward and reverse direction.

Fairview offers a wide variety of circulators to fit your needs. These unique devices enable two signals to use a single channel. The classic use of a circulator (a three port device) is for the line/coax between the antenna and a transceiver, allowing the signal to come from the antenna to the receiver while the transmit signal goes from the transmitter to the antenna. As a dual junction device, this is essentially two circulators in one package and has four ports. This allows for roughly twice the isolation of a standard circulator. By terminating one of the four ports (using a 50 ohm load), it becomes a three port device and can be connected as a standard circulator. An isolator can be created by terminating another port, creating a two port device. These devices can be used in antenna transmitting and receiving, radar, amplifier systems and anything 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.



Description	Min	Тур	Max	Units
Frequency Range	2		4	GHz
Insertion Loss			1	dB
Dual Junction Isolation (ports 2-1, 4-3)	36			dB
Single Junction Isolation (ports 1-4, 3-2)		15		dB
VSWR			1.3:1	
Forward Power, CW			10	Watts
Forward Power, Peak			30	Watts
Reverse Power, CW			10	Watts

Electrical Specification Notes:

Values at 25°C, sea level.

Mechanical Specifications

Size

 Length
 3.2 in [81.28 mm]

 Width
 0.6 in [15.24 mm]

 Height
 1.6 in [40.64 mm]

 Weight
 0.359 lbs [162.84 g]

Configuration

Design Dual Junction
Package Style Connectorized
Connector 1 SMA Female
Connector 2 SMA Female
Connector 3 SMA Female
Connector 4 SMA Female



Features:

- High Dual Junction
 Isolation of 36 dB
- Frequency Range of 2 to 4 GHz
- Female SMA Connectors
- VSWR of 1.3:1
- Forward and Reverse Power of 10 watts

Applications:

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

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Environmental Specifications

Temperature

Operating Range 0 to +50 deg C

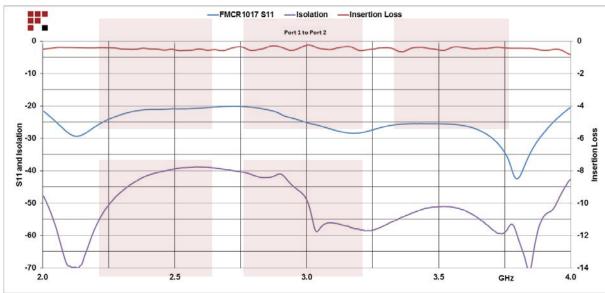
Compliance Certifications (see product page for current document)

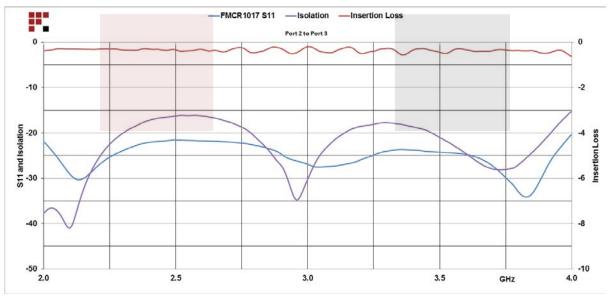
Plotted and Other Data

Notes:

• Values at 25°C, sea level.

Typical Performance Data

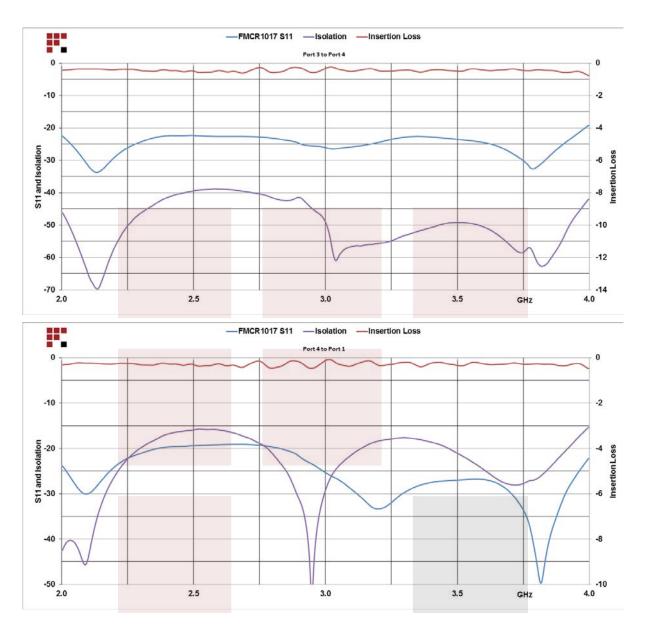




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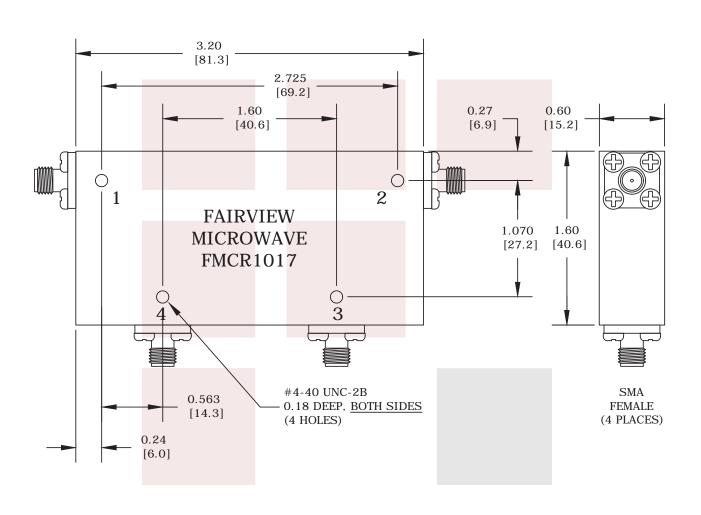
For additional information on this product, please click the following link: Dual Junction Circulator SMA Female With 36 dB Isolation From 2 GHz to 4 GHz Rated to 10 Watts FMCR1017

URL: https://www.fairviewmicrowave.com/sma-female-dual-junction-circulator-40db-isolation-4-ghz-10-watts-fm-cr1017-p.aspx

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Dual Junction Circulator SMA Female With 36 dB Isolation From 2 GHz to 4 GHz Rated to 10 Watts	DWG NO FMCR1017			CAGE CODE 3FKR5			
	CAD FILE 012016	SHEET	SCALE	E N/A	SIZE A	2233	