



# Dual Junction Isolator SMA Female with 40 dB Isolation from 2 GHz to 4 GHz Rated to 50 Watts

The FMIR1017 is a dual junction isolator offering 40 dB minimum of 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 50 Watts in forward and 2 Watts in reverse direction.

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's isolators feature excellent insertion loss, high isolation and reliability, low VSWR, and a wide dynamic temperature range.



Description	Min	Тур	Max	Units
Frequency Range	2		4	GHz
Impedance		50		Ohms
Insertion Loss			1	dB
Isolation	40			dB
VSWR			1.3:1	
Forward Power, CW			50	Watts
Reverse Power, CW			2	Watts

**Electrical Specification Notes:** 

Electrical Performance Is Guaranteed Only At 25C Ambient

#### **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
 0.347 lbs [157.4 g]

# Configuration

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

#### **Environmental Specifications**

**Temperature** 

Operating Range 0 to +50 deg C

**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:



## **Features:**

- High Isolation of 40 dB
- Frequency Range of 2 to 4 GHz
- Female SMA Connectors
- VSWR of 1.3:1

# **Applications:**

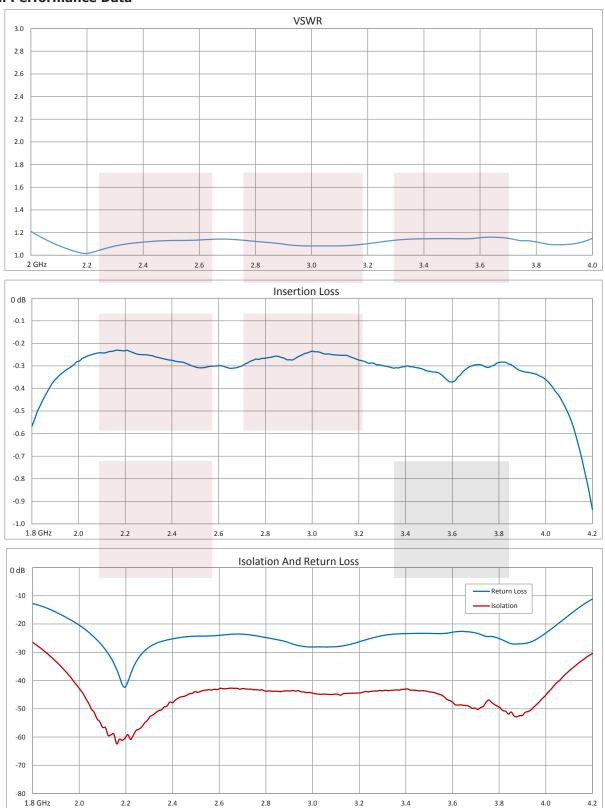
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## **Typical Performance Data**







Dual Junction Isolator SMA Female with 40 dB Isolation from 2 GHz to 4 GHz Rated to 50 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Dual Junction Isolator SMA Female with 40 dB Isolation from 2 GHz to 4 GHz Rated to 50 Watts FMIR1017

URL: https://www.fairviewmicrowave.com/dual-junction-isolator-sma-female-40db-isolation-4-ghz-50-watts-fmir1017-p. aspx

