

## High Power Isolator SMA Female with 20 dB Isolation from 11 GHz to 18 GHz Rated to 50 Watts

The FMIR1011 is a high power isolator offering a forward and reverse power rating of 50 watts over an operational frequency band of 11 to 18 GHz. This coaxial part uses SMA female connectors on all ports and has a minimum of 20 dB of isolation.

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.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	11		18	GHz
Impedance		50		Ohms
Insertion Loss			0.6	dB
Isolation	20			dB
VSWR			1.25:1	
Forward Power, CW			50	Watts
Reverse Power, CW			10	Watts

### Mechanical Specifications

<b>Size</b>	
Length	0.63 in [16 mm]
Width	0.56 in [14.22 mm]
Height	0.8 in [20.32 mm]
Weight	0.0605 lbs [27.44 g]

### Configuration

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

### Environmental Specifications

<b>Temperature</b>	
Operating Range	0 to +70 deg C

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:



### Features:

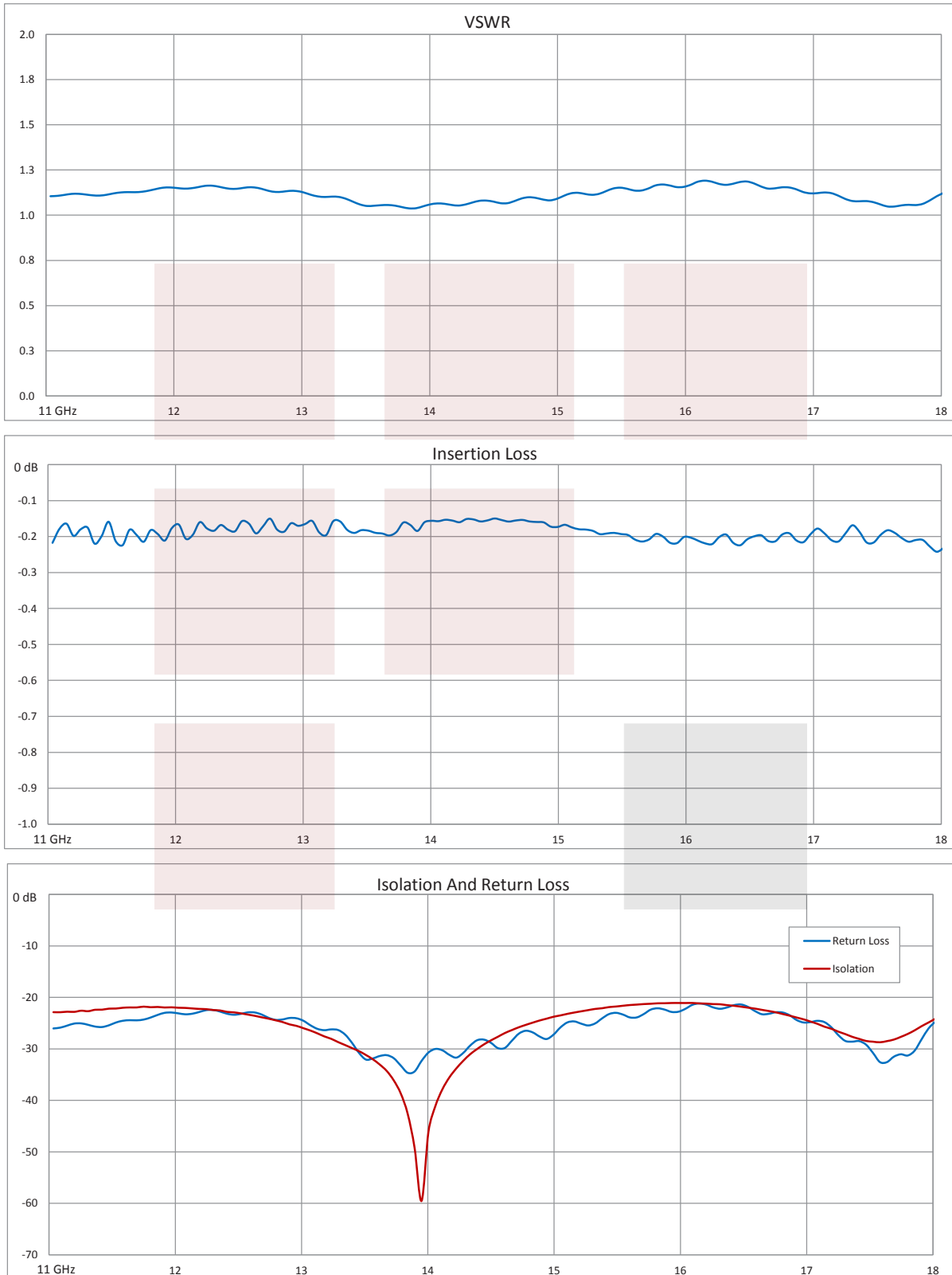
- Forward Power 50 watts
- Frequency Range of 11 to 18 GHz
- Female SMA Connectors
- VSWR 1.25:1
- Isolation 20 dB

### Applications:

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

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**Typical Performance Data**



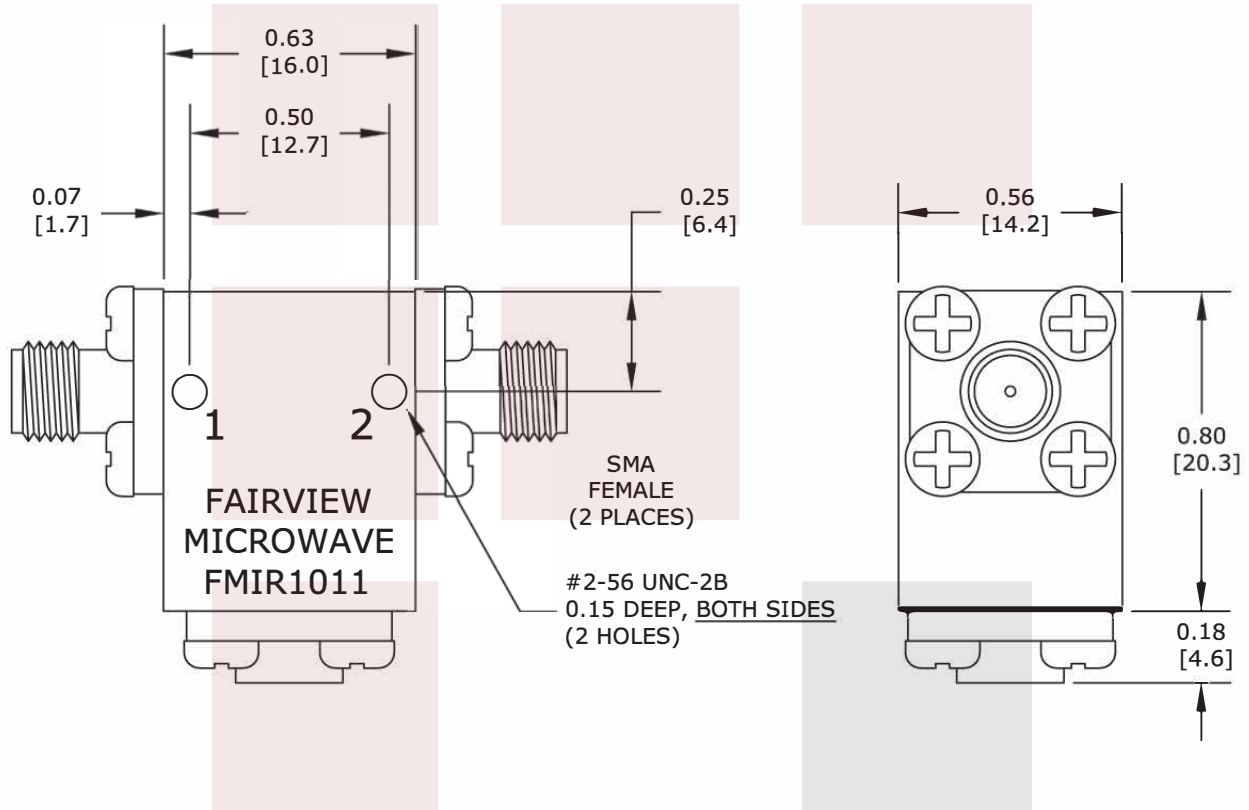
High Power Isolator SMA Female with 20 dB Isolation from 11 GHz to 18 GHz Rated to 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [High Power Isolator SMA Female with 20 dB Isolation from 11 GHz to 18 GHz Rated to 50 Watts FMIR1011](#)

URL: <https://www.fairviewmicrowave.com/sma-female-high-power-isolator-20db-isolation-18-ghz-50-watts-fmir1011-p.aspx>

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TITLE High Power Isolator SMA Female with 20 dB Isolation from 11 GHz to 18 GHz Rated to 50 Watts		FMIR1011	3FKR5	
CAD FILE	012616	SHEET	SCALE	N/A
			SIZE	A
				2233