

## 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	0.0579 lbs [26.26 g]

### Configuration

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

### Environmental Specifications

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

### Plotted and Other Data

Notes:



### Features:

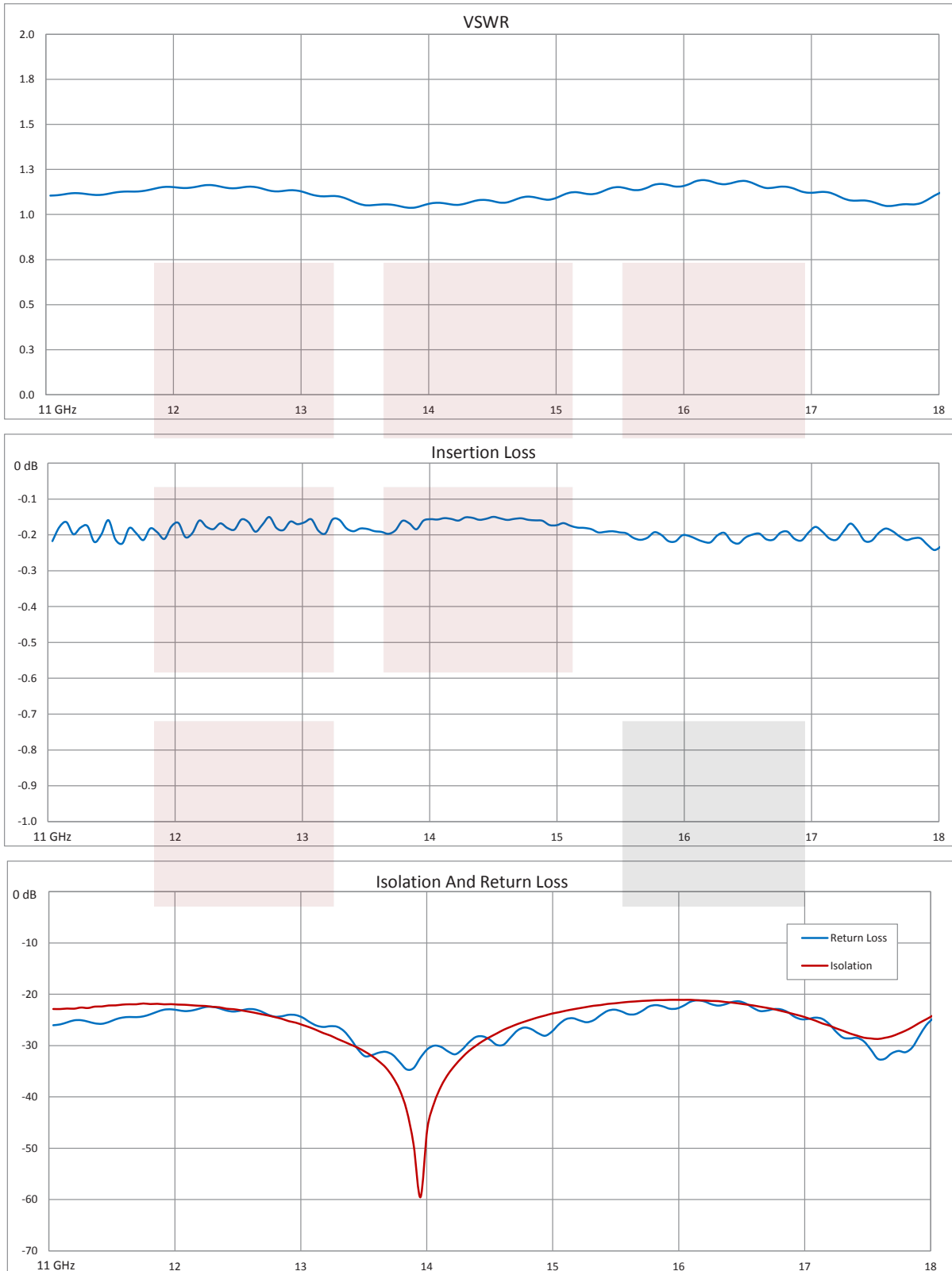
- Forward Power 50 watts
- Frequency Range of 11 to 18 GHz
- Female SMA Connectors
- VSWR 1.25:1
- Isolation 20 dB

### Applications:

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

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**Typical Performance Data**



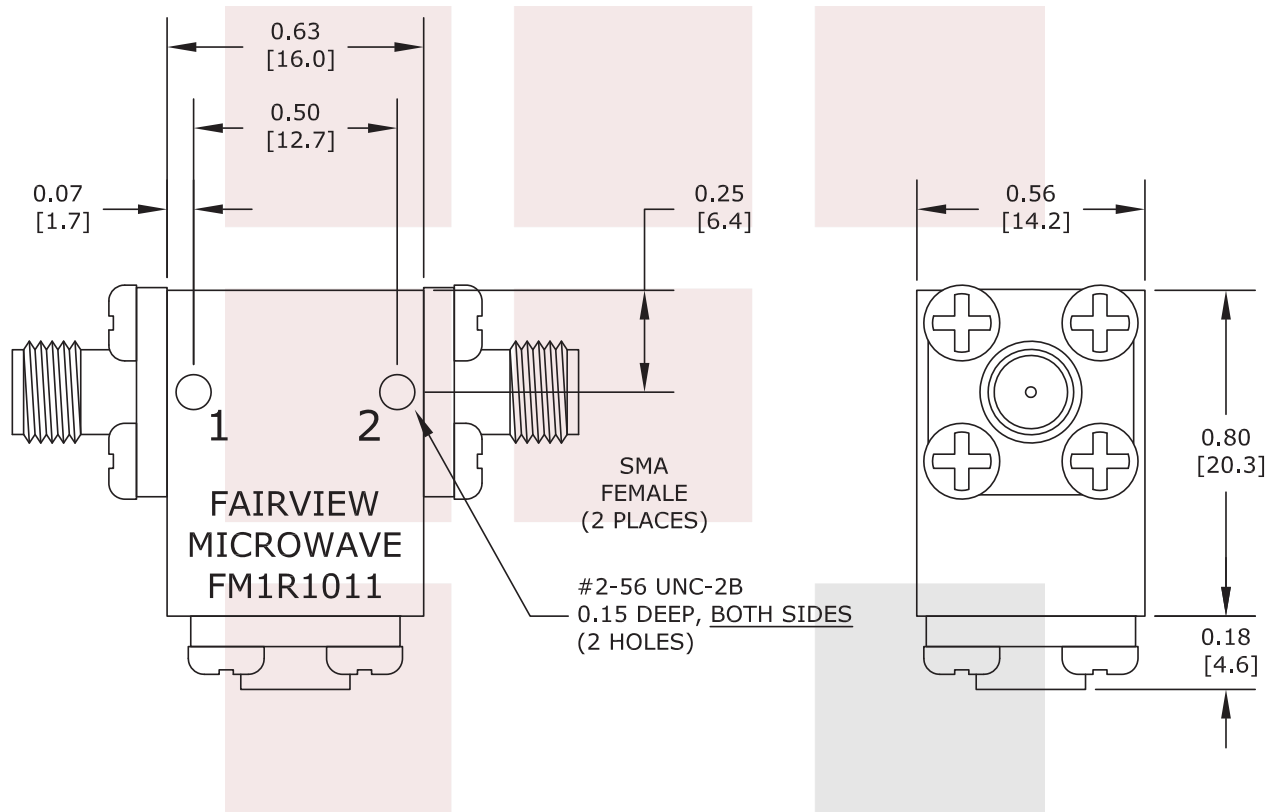
High Power Isolator SMA Female with 20 dB Isolation from 11 GHz to 18 GHz Rated to 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave 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		DWG NO FMiR1011		CAGE CODE 3FKR5	
CAD FILE	012616	SHEET	SCALE	N/A	SIZE A 2233