



High Power Isolator SMA Female with 20 dB Isolation from 2 GHz to 4 GHz Rated to 100 Watts

The FMIR1004 is a high power isolator offering a forward power rating of 100 Watts and reverse power rating of 50 Watts over an operational frequency band of 2 to 4 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 Microwave'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			0.6	dB
Isolation	20			dB
VSWR			1.3:1	
Forward Power, CW			100	Watts
Reverse Power, CW			50	Watts

Electrical Specification Notes:

To meet the 50 watt reverse power specification, a heat sink will be required.

Mechanical Specifications

Size

 Length
 1.6 in [40.64 mm]

 Width
 0.6 in [15.24 mm]

 Height
 1.6 in [40.64 mm]

 Weight
 0.2145 lbs [97.3 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 100 Watts
- Reverse Power 50 Watts
- Frequency Range of 2 to 4 GHz
- Female SMA Connectors
- VSWR 1.3:1
- Isolation 20 dB

Applications:

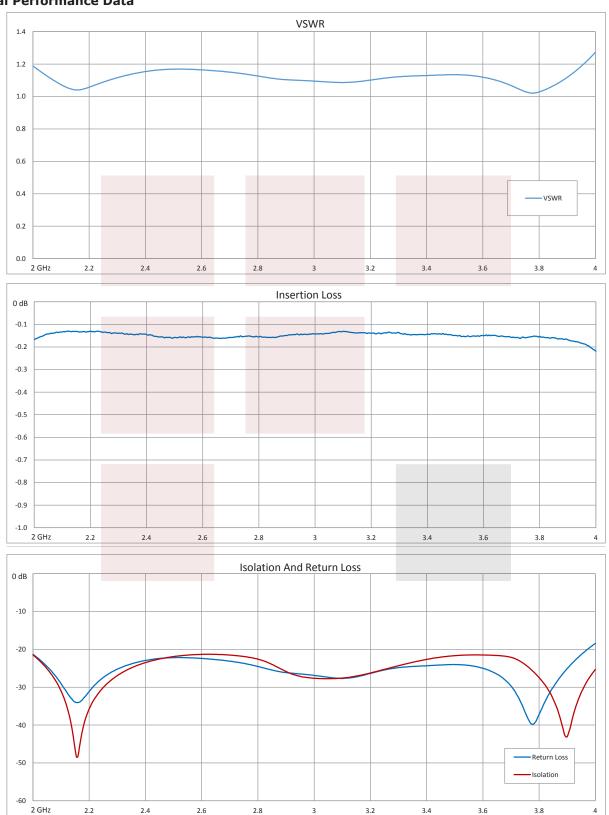
- Radar Systems
- Military
- Wireless Radio Systems
- Telecom Infrastructure
- Communication Systems
- R&D Labs
- Microwave Radio Systems

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Typical Performance Data







High Power Isolator SMA Female with 20 dB Isolation from 2 GHz to 4 GHz Rated to 100 Watts from Fairview Microwave is instock 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 2 GHz to 4 GHz Rated to 100 Watts FMIR1004

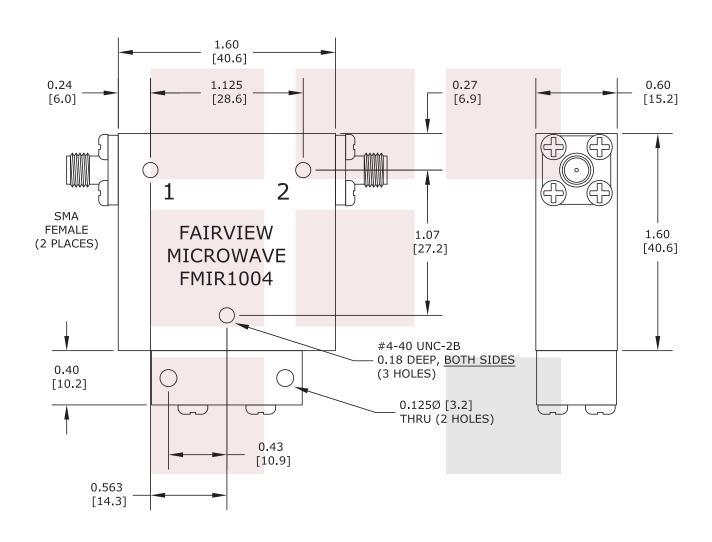
URL: https://www.fairviewmicrowave.com/high-power-isolator-sma-female-20db-isolation-4-ghz-100-watts-fmir1004-p. aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order

to implem	ent improvements	. Fairview	Microw	ave reserve	es the righ	nt to mal	ke such	changes	as req	uired.	Unles	s oth	nerwise
	specifications are												
	of the part descril				purpose,	and Fai	rview M	1icrowave	does	not as	sume	any l	liability
arising out	t of the use of any	part or do	ocument	ation.									







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	CAD FILE 012616	SHEET	SCAL	E N/A	SIZE A	2233	