

FMIR1002 DATA SHEET

High Power Isolator SMA Female with 20 dB Isolation from 1.7 GHz to 2.2 GHz Rated to 100 Watts

The FMIR1002 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 1.7 to 2.2 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.



| Description | Min | Тур | Max | Units |
|-------------------|-----|-----|--------|-------|
| Frequency Range | 1.7 | | 2.2 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 0.4 | dB |
| Isolation | 20 | | | dB |
| VSWR | | | 1.25:1 | |
| Forward Power, CW | | | 100 | Watts |
| Reverse Power, CW | | | 50 | Watts |
| | | | | |



Features:

- Forward Power 100 Watts
- Reverse Power 50 Watts
- Frequency Range of 1.7 to 2.2 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

Mechanical Specifications

Size Lengt

 Length
 2.5 in [63.5 mm]

 Width
 1.02 in [25.91 mm]

 Height
 2.5 in [63.5 mm]

 Weight
 0.889 lbs [403.24 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:

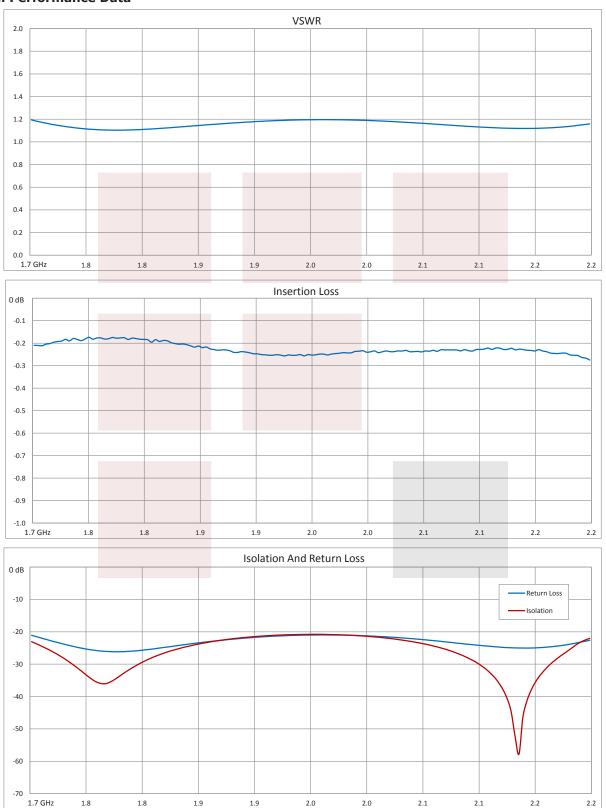
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Typical Performance Data







High Power Isolator SMA Female with 20 dB Isolation from 1.7 GHz to 2.2 GHz Rated to 100 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.

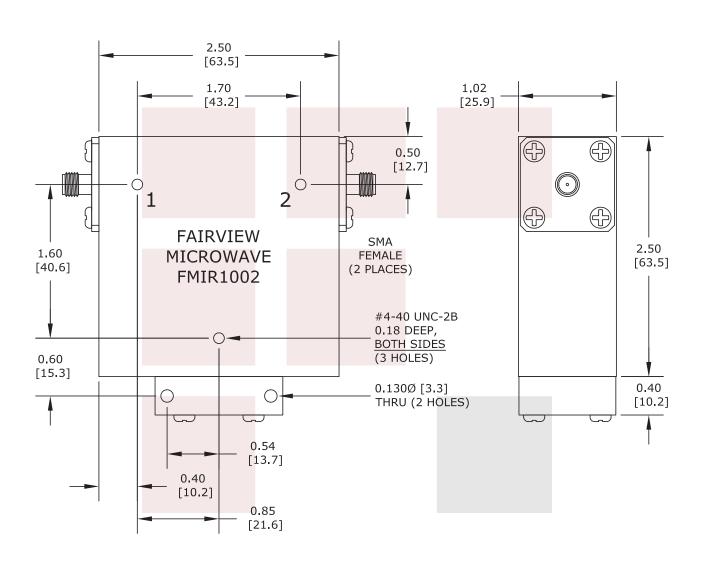
For additional information on this product, please click the following link: High Power Isolator SMA Female with 20 dB Isolation from 1.7 GHz to 2.2 GHz Rated to 100 Watts FMIR1002

URL: https://www.fairviewmicrowave.com/high-power-isolator-sma-female-20db-isolation-2.2-ghz-100-watts-fmir1002-p. aspx









| FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. | | | | | | |
|--|---|-------|-------|-----------------|--------|------|--|
| High Power Isolator SMA Female with 20 dB Isolation from 1.7 GHz to 2.2 GHz Rated to 100 Watts | DWG NO FMIR1002 | | | CAGE CODE 3FKR5 | | | |
| | CAD FILE 012516 | SHEET | SCALE | ≣ N/A | SIZE A | 2233 | |