

## Isolator 2.92mm Female with 13 dB Isolation from 22 GHz to 33 GHz Rated to 10 Watts

The FMIR1035 is an RF isolator offering a forward power rating of 10 watts over an operational frequency band of 22 to 33 GHz. This coaxial part uses 2.92mm female connectors on all ports and has a minimum of 13 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.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	22		33	GHz
Impedance		50		Ohms
Insertion Loss			1.7	dB
Isolation	13			dB
VSWR			1.8:1	
Forward Power, CW			10	Watts

### Mechanical Specifications

<b>Size</b>	
Length	1.02 in [25.91 mm]
Width	0.51 in [12.95 mm]
Height	0.65 in [16.51 mm]
Weight	0.066 lbs [29.94 g]
Body Material and Plating	Copper, Nickel

### Configuration

Direction	Clockwise
Connector 1	2.92mm Female
Connector 2	2.92mm Female

### Environmental Specifications

#### Temperature

Operating Range	-40 to +85 deg C
Storage Range	-40 to +85 deg C

Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions
Vibration	25gRMS (15 degrees 2KHz) endurance, 1 hour per axis
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)

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

### Plotted and Other Data

Notes:



### Features:

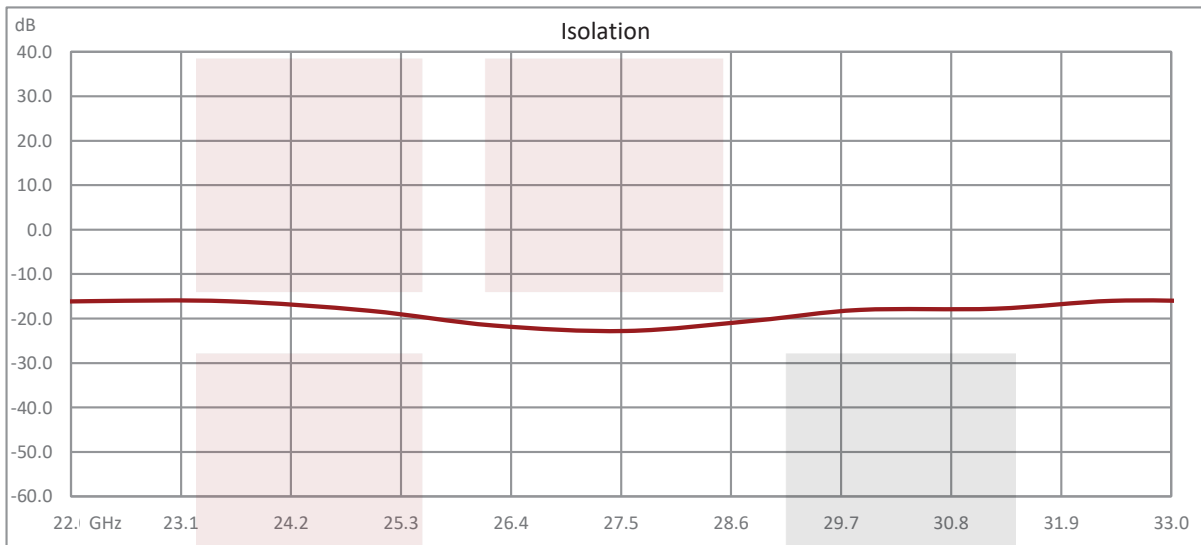
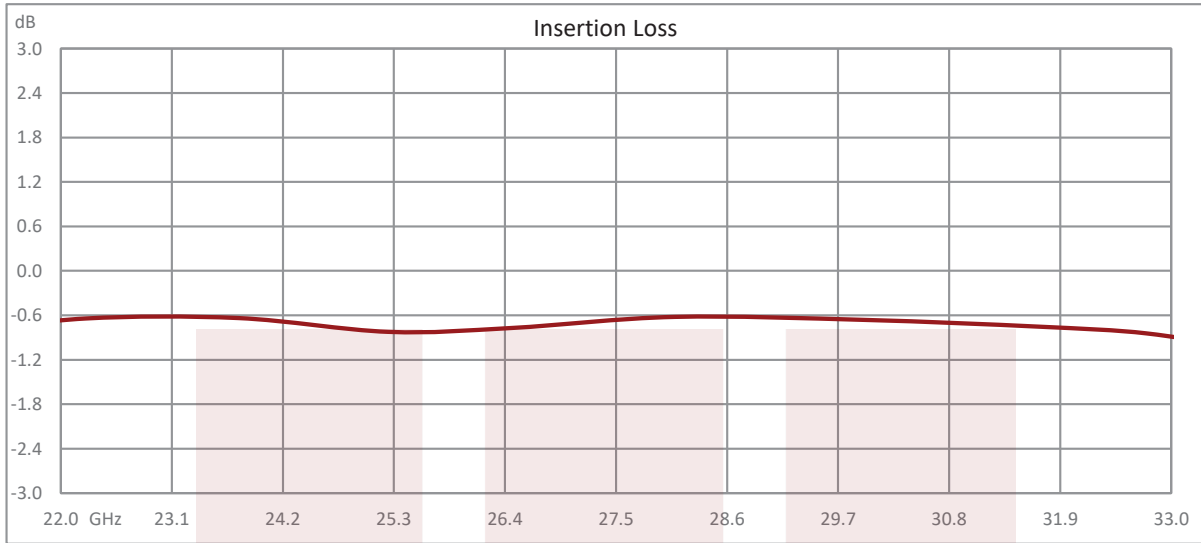
- Forward Power 10 watts
- Wide-Band Operating of 22 to 33 GHz
- Female 2.92mm Connectors
- Low VSWR of 1.80:1 Max
- Low Insertion Loss of 1.7 dB Max
- Good Isolation Performance of 13 dB Minimum

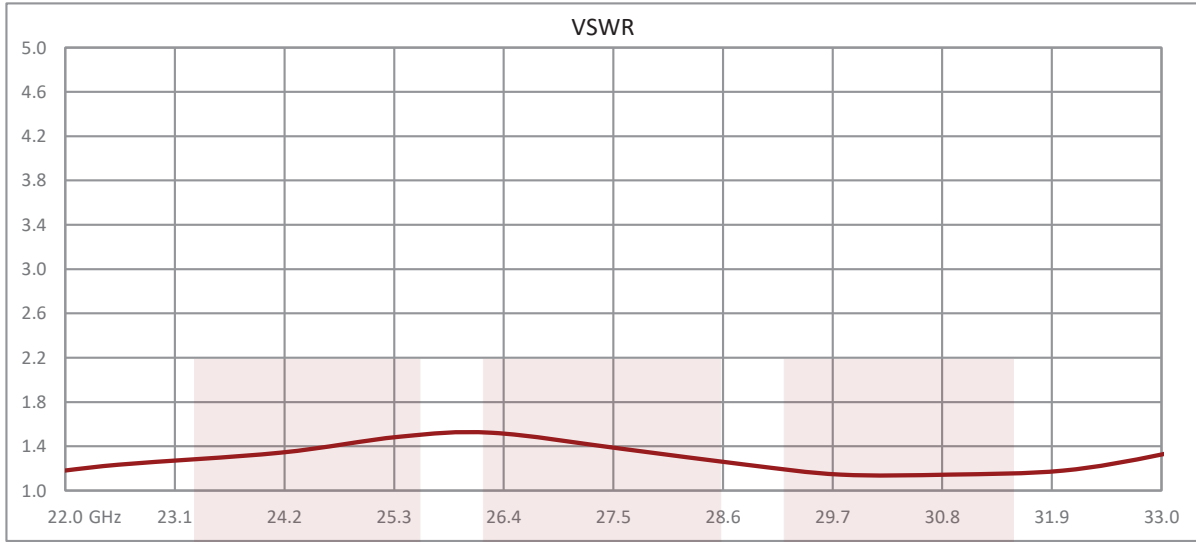
### Applications:

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

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**Typical Performance Data**





Isolator 2.92mm Female with 13 dB Isolation from 22 GHz to 33 GHz Rated to 10 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: [Isolator 2.92mm Female with 13 dB Isolation from 22 GHz to 33 GHz Rated to 10 Watts FMIR1035](https://www.fairviewmicrowave.com/isolator-2.92mm-female-13db-isolation-33-ghz-10-watts-fmir1035-p.aspx)

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