

## Isolator 2.92mm Female with 12 dB Isolation from 26.5 GHz to 40 GHz Rated to 10 Watts

The FMIR1036 is an RF isolator offering a forward power rating of 10 watts over an operational frequency band of 26.5 to 40 GHz. This coaxial part uses 2.92mm female connectors on all ports and has a minimum of 12 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	26.5		40	GHz
Impedance		50		Ohms
Insertion Loss			1.7	dB
Isolation	12			dB
VSWR			1.7:1	
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	0.075 lbs [34.02 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	-20 to +70 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:

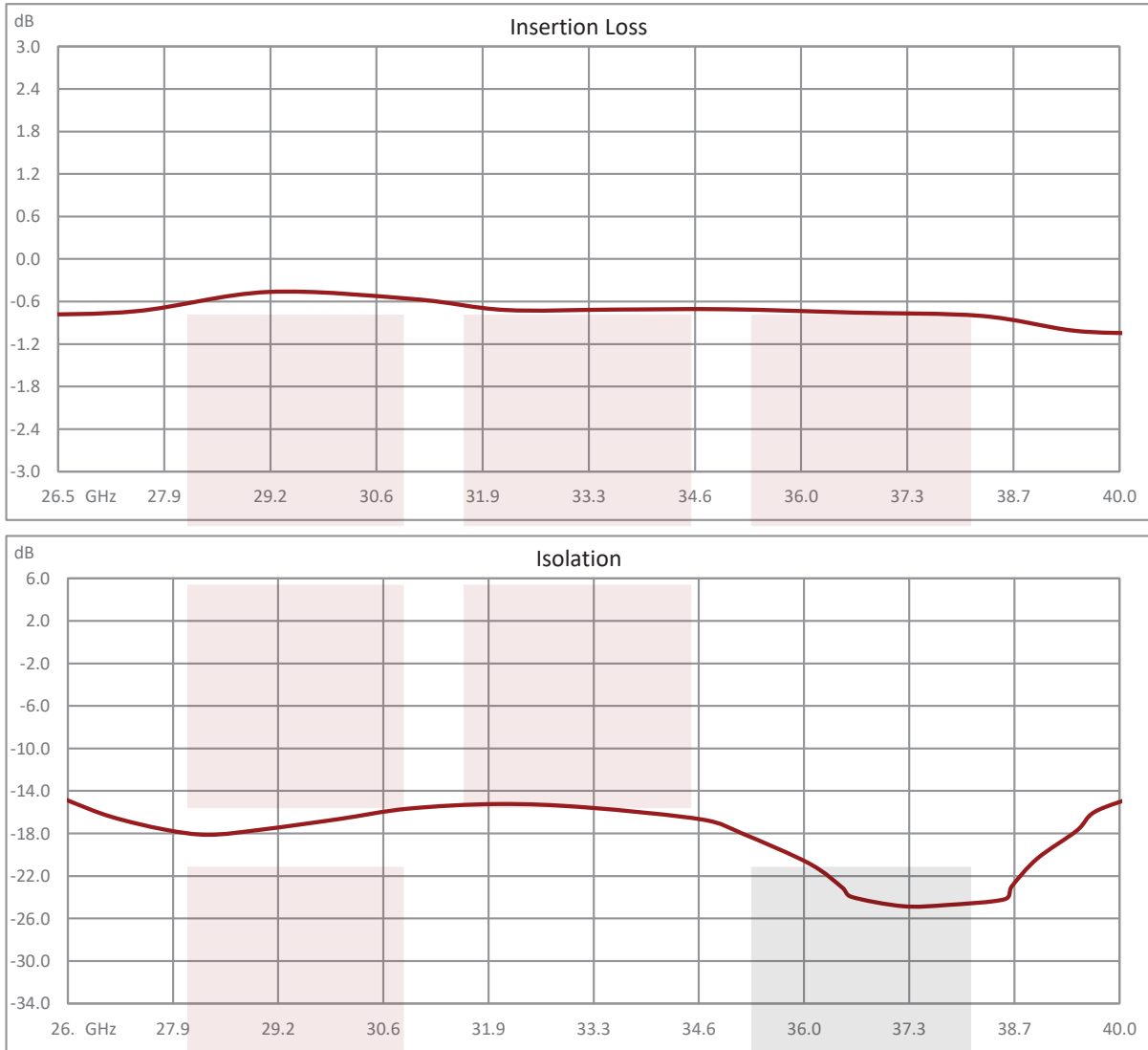
- Forward Power 10 watts
- Wide-Band Operating of 26.5 to 40 GHz
- Female 2.92mm Connectors
- Low VSWR of 1.70:1 Max
- Low Insertion Loss of 1.7 dB Max
- Good Isolation Performance of 12 dB Minimum

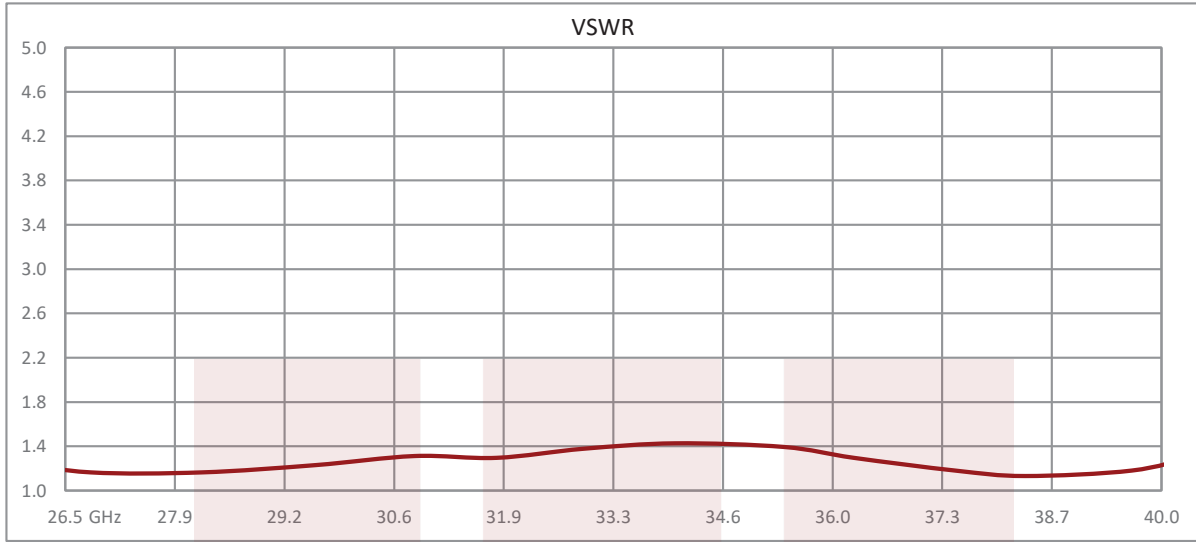
### Applications:

- 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**





Isolator 2.92mm Female with 12 dB Isolation from 26.5 GHz to 40 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 12 dB Isolation from 26.5 GHz to 40 GHz Rated to 10 Watts FMIR1036](https://www.fairviewmicrowave.com/isolator-2.92mm-female-12db-isolation-40-ghz-10-watts-fmir1036-p.aspx)

URL: <https://www.fairviewmicrowave.com/isolator-2.92mm-female-12db-isolation-40-ghz-10-watts-fmir1036-p.aspx>

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1.02 [26.0] .87 [22.0] .51 [13.0] 1 LABEL 2 2X M2.5 THRU

.65 [16.6] .16 [4.0] .67 [17.0] .50 [12.6]

LABEL:  
FAIRVIEW MICROWAVE  
FMIR1036  
D/C: XXXX

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<p><b>Fairview Microwave</b> an INFINIT<sup>®</sup> brand</p>	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS		THIRD-ANGLE PROJECTION 	
	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
TITLE Isolator 2.92mm Female with 12 dB Isolation from 26.5 GHz to 40 GHz Rated to 10 Watts		.X = ± 2 [5.08] FRACTIONS ± 1/32 .XX = ± .02 [ .51 ] ± 1/32 .XXX = ± .005 [ .13 ] ANGLES ± 1°	L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. SHEET 1 OF 1
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.				SCALE N/A
SIZE A	CAGE CODE 3FKR5	DRAWN BY DFRISIELLO	ITEM NO. FMIR1036	REV A

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