

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

The FMCR1032 is an RF circulator offering a forward and reverse 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 circulators to fit your needs. These unique devices enable two signals to use one channel. The classic use of this three port device is for the line/coax between an antenna and a transceiver, allowing the receive signal to come from the antenna (port 1) to the receiver (port 2) while the transmit signal goes from the transmitter (port 3) to the antenna (port 1). An circulator can be created by terminating one port into a matched load. These components can be used in antenna transmitting and receiving, radar, amplifier systems and anything that requires isolation from a signal reflection and the ability to send signals in opposite directions down a single channel. These circulators feature excellent insertion loss, high isolation and reliability.

Electrical Specifications

| Description | Min | Тур | Мах | Units |
|-------------------|------|-----|-------|-------|
| Frequency Range | 26.5 | | 40 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 1.7 | dB |
| Isolation | 12 | | | dB |
| VSWR | | | 1.8:1 | |
| Forward Power, CW | | | 10 | Watts |
| | | | 10 | |

Mechanical Specifications

Vibration

Altitude

| Mechanical Specificati | ons | | |
|--|-----------------------------|--|--|
| Size Length Width Height Weight Body Material and Platir | 0.91 ir 0.65 ir 0.066 | n [24.89 mm] n [23.11 mm] n [16.51 mm] lbs [29.94 g] r, Nickel | |
| Configuration Design Direction Connector 1 Connector 2 Connector 3 | Counte 2.92m 2.92m | Junction er-Clockwise m Female m Female m Female | |
| Environmental Specifie Temperature Operating Range Storage Range | -20 to | +70 deg C +125 deg C | |
| Humidity Shock | | 100% RH at 35c 20G for 11msec | |

20G for 11msec 25g RMS 30,000 ft. (Epoxy Sealed Controlled environment)

FMCR1032 DATA SHEET



Features:

- Forward/Reverse Power 10 watts
- Wide-Band Operating Frequency Range of 26.5 to 40 GHz
- Female 2.92mm Connectors
- Low VSWR of 1.80:1 Max
- Low Insertion Loss of 1.7 dB
- 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 sales@fairviewmicrowave.com





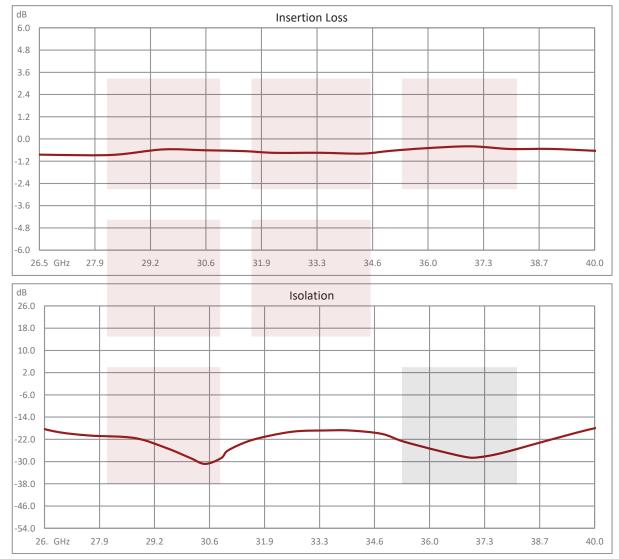
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

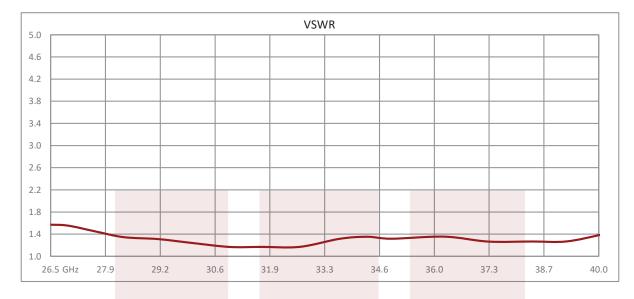
Typical Performance Data



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Circulator 2.92mm Female with 12 dB Isolation from 26.5 GHz to 40 GHz Rated to 10 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: Circulator 2.92mm Female with 12 dB Isolation from 26.5 GHz to 40 GHz Rated to 10 Watts FMCR1032

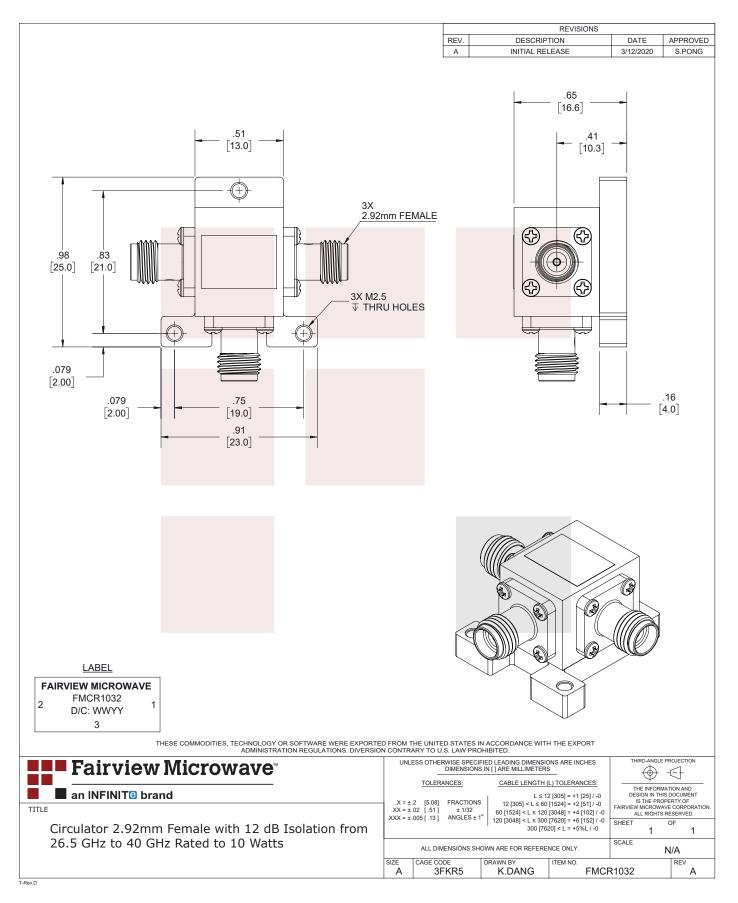
URL: https://www.fairviewmicrowave.com/circulator-2.92mm-female-12db-isolation-40-ghz-10-watts-fmcr1032-p.aspx

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301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

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