



Circulator 2.92mm Female with 14 dB Isolation from 32 GHz to 36 GHz Rated to 10 Watts

The FMCR1029 is an RF circulator offering a forward and reverse power rating of 10 watts over an operational frequency band of 32 to 36 GHz. This coaxial part uses 2.92mm female connectors on all ports and has a minimum of 14 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	Max	Units
Frequency Range	32		36	GHz
Impedance		50		Ohms
Insertion Loss			1.7	dB
Isolation	14			dB
VSWR			1.8:1	
Forward Power, CW			10	Watts



Features:

- Forward/Reverse Power 10 watts
- Wide-Band Operating Frequency Range of 32 to 36 GHz
- Female 2.92mm Connectors
- Low VSWR of 1.80:1 Max
- Low Insertion Loss of 1.7 dB
- Good Isolation Performance of 14 dB Minimum

Applications:

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

Mechanical Specifications

Size

Lenath 0.98 in [24.89 mm] Width 0.91 in [23.11 mm] 0.66 in [16.76 mm] Height Weight 0.066 lbs [29.94 g] Body Material and Plating Copper, Nickel

Configuration

Design Single Junction Direction Clockwise 2.92mm Female Connector 1 2.92mm Female Connector 2 2.92mm Female Connector 3

Environmental Specifications

Temperature

Operating Range -40 to +80 deg C Storage Range -55 to +125 deg C

100% RH at 35c. Humidity Shock 20G for 11msec Vibration

25a RMS

30,000 ft. (Epoxy Sealed Controlled en-Altitude vironment)

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Compliance Certifications (see product page for current document)

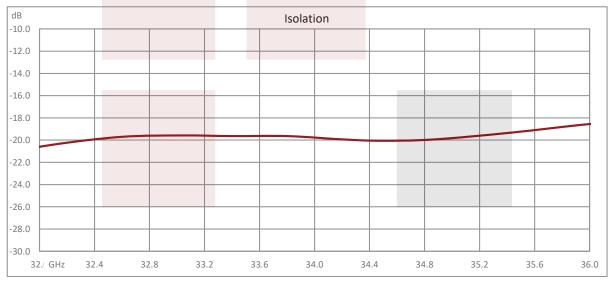
Plotted and Other Data

Notes:

• Values at 25°C, sea level.

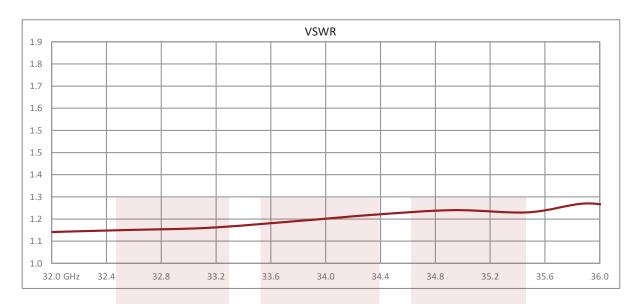
Typical Performance Data











Circulator 2.92mm Female with 14 dB Isolation from 32 GHz to 36 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 14 dB Isolation from 32 GHz to 36 GHz Rated to 10 Watts FMCR1029

URL: https://www.fairviewmicrowave.com/circulator-2.92mm-female-14db-isolation-36-ghz-10-watts-fmcr1029-p.aspx

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