



High Power Circulator SMA Female with 17 dB Isolation from 4 GHz to 8 GHz Rated to 80 Watts

The FMCR1034 is an RF circulator offering a forward and reverse power rating of 80 watts over an operational frequency band of 4 to 8 GHz. This coaxial part uses SMA female connectors on all ports and has a minimum of 17 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.



Description	Min	Тур	Max	Units
Frequency Range	4		8	GHz
Impedance		50		Ohms
Insertion Loss			0.6	dB
Isolation	17			dB
VSWR			1.4:1	
Forward Power, CW			80	Watts



Features:

- Forward/Reverse Power 80 watts
- Wide-Band Operating Frequency Range of 4 to 8 GHz
- Female SMA Connectors
- Low VSWR of 1.40:1 Max
- Low Insertion Loss of 0.6 dB
- Good Isolation Performance of 17 dB Minimum

Applications:

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

Mechanical Specifications

Size

Length 1.02 in [25.91 mm]
Width 0.79 in [20.07 mm]
Height 0.55 in [13.97 mm]
Weight 0.08 lbs [36.29 g]
Body Material and Plating Aluminum, Nickel

Configuration

Design Single Junction
Direction Clockwise
Connector 1 SMA Female
Connector 2 SMA Female
Connector 3 SMA Female

Environmental Specifications

Temperature

Operating Range -20 to +70 deg CStorage Range -40 to +85 deg C

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

Vibration 25g RMS

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

vironment)

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Compliance Certifications (see product page for current document)

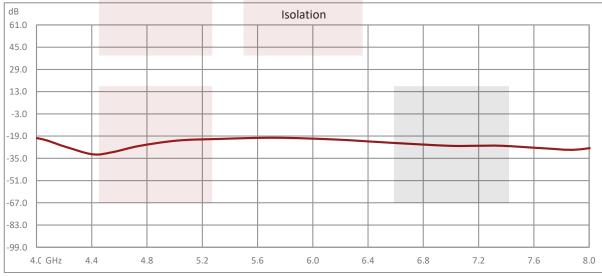
Plotted and Other Data

Notes:

• Values at 25°C, sea level.

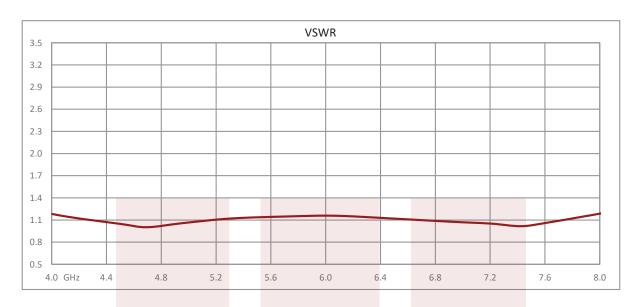
Typical Performance Data











High Power Circulator SMA Female with 17 dB Isolation from 4 GHz to 8 GHz Rated to 80 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 Circulator SMA Female with 17 dB Isolation from 4 GHz to 8 GHz Rated to 80 Watts FMCR1034

URL: https://www.fairviewmicrowave.com/high-power-circulator-sma-female-17db-isolation-8-ghz-80-watts-fmcr1034-p. aspx

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