



High Power Circulator SMA Female With 17 dB Isolation From 18 GHz to 26.5 GHz Rated to 50 Watts

The FMCR1012 is a high power circulator offering a forward and reverse power rating of 50 watts over an operational frequency band of 18 to 26.5 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 isolator 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, low VSWR, and a wide dynamic temperature range



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Description	Min	Тур	Max	Units	
Frequency Range	18		26.5	GHz	
Insertion Loss			0.6	dB	
Isolation	17			dB	
VSWR			1.4:1		
Forward Power, CW			50	Watts	
Forward Power, Peak			60	Watts	
Reverse Power, CW			50	Watts	

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Size Length Width Height

Weight

0.5 in [12.7 mm] 0.5 in [12.7 mm] 0.67 in [17.02 mm] 0.0452 lbs [20.5 g]

Configuration

Design Single Junction
Package Style Connectorized
Connector 1 SMA Female
Connector 2 SMA Female
Connector 3 SMA Female

Environmental Specifications

Temperature

Operating Range 0 to +70 deg C



Features:

- Forward Power of 50 watts
- Frequency Range of 18 to 26.5 GHz
- Female SMA Connectors
- VSWR of 1.4:1
- Isolation of 17 dB

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





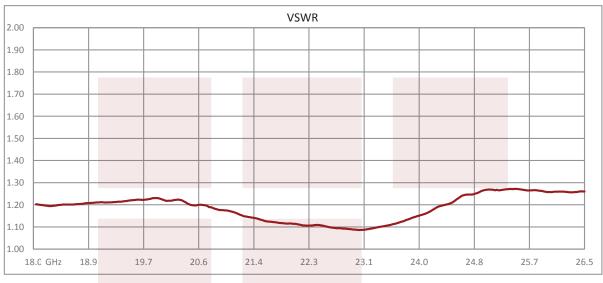
Compliance Certifications (see product page for current document)

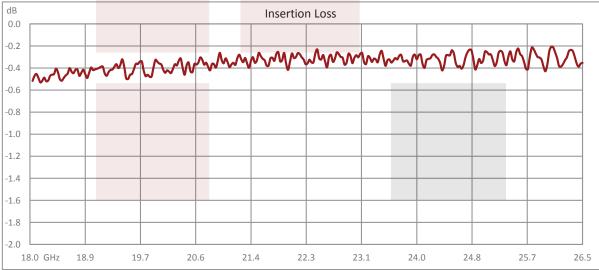
Plotted and Other Data

Notes:

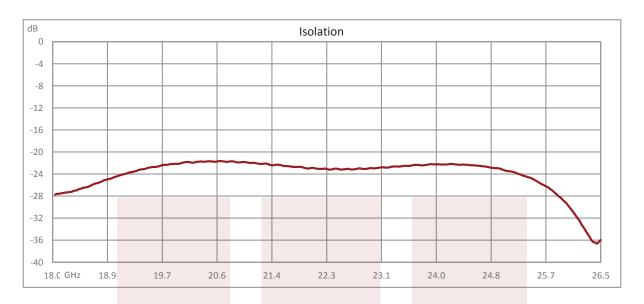
• Values at 25°C, sea level.

Typical Performance Data









High Power Circulator SMA Female With 17 dB Isolation From 18 GHz to 26.5 GHz Rated to 50 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 Allen, Texas. Fairview Microwave is RF on-demand.

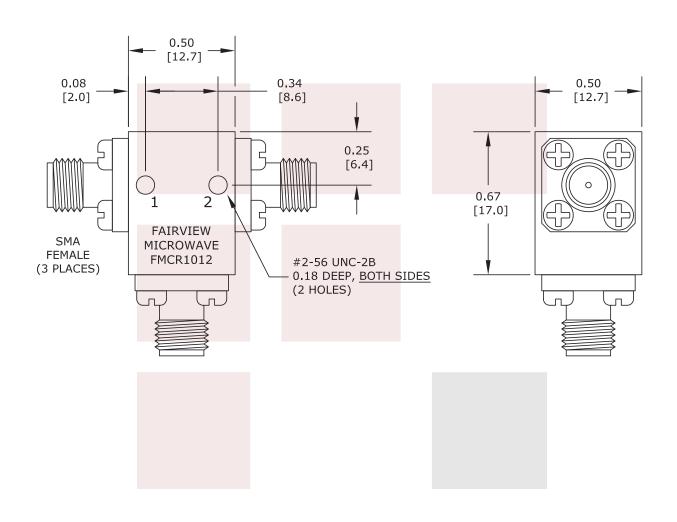
For additional information on this product, please click the following link: High Power Circulator SMA Female With 17 dB Isolation From 18 GHz to 26.5 GHz Rated to 50 Watts FMCR1012

URL: https://www.fairviewmicrowave.com/high-power-circulator-sma-female-17db-isolation-26.5-ghz-50-watts-fm-cr1012-p.aspx

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High Power Circulator SMA Female With 17 dB Isolation From 18 GHz to 26.5 GHz Rated to 50 Watts	DWG NO FMCR1012			CAGE CODE 3FKR5			
	CAD FILE 020216	SHEET	SCAL	E N/A	SIZE A	2233	