



# N Female High Power Circulator With 18 dB Isolation From 4 GHz to 8 GHz And 50 Watts

The FMCR1007 is a high power circulator offering a forward and reverse power rating of 50 watts over an operational frequency band of 4 to 8 GHz. This coaxial part uses N female connectors on all ports and has a minimum of 18 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.



Description	Min	Тур	Max	Units
Frequency Range	4		8	GHz
Insertion Loss			0.6	dB
Isolation	18			dB
VSWR			1.3:1	
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
 1 in [25.4 mm]

 Width
 0.63 in [16 mm]

 Height
 1 in [25.4 mm]

#### Configuration

Design Single Junction
Connector 1 N Female
Connector 2 N Female
Connector 3 N Female

## **Environmental Specifications**

Temperature

Operating Range 0 to +50 deg C

**Compliance Certifications** (visit www.FairviewMicrowave.com for current

document)

RoHS Compliant Yes

REACH Compliant 12/17/2015



### **Features:**

- Forward Power of 50 watts
- Frequency Range of 4 to 8 GHz
- Female N Connectors
- VSWR of 1.3:1
- Isolation of 18 dB

# **Applications:**

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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com



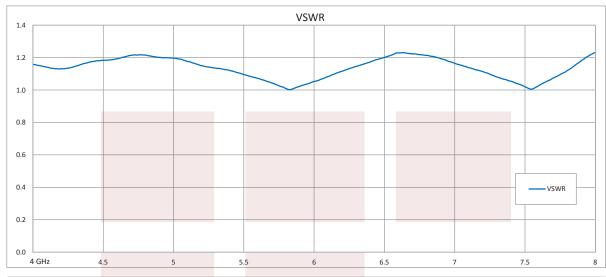


#### **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.

#### **Typical Performance Data**











N Female High Power Circulator With 18 dB Isolation From 4 GHz to 8 GHz And 50 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 Allen, Texas. Fairview Microwave is RF on-demand.

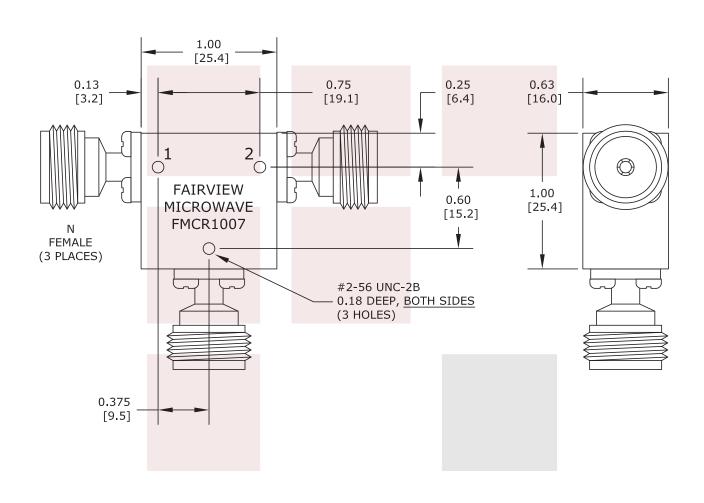
For additional information on this product, please click the following link: N Female High Power Circulator With 18 dB Isolation From 4 GHz to 8 GHz And 50 Watts FMCR1007

URL: http://www.fairviewmicrowave.com/n-female-high-power-circulator-18db-isolation-8-ghz-50-watts-fmcr1007-p.aspx

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N Female High Power Circulator With 18 dB Isolation From 4 GHz to 8 GHz And 50 Watts	DWG NO FMCR1007			CAGE CODE 3FKR5			
	CAD FILE 020116	SHEET	SCALE	E N/A	SIZE A	2233	