



Dual Junction Circulator N Female With 36 dB Isolation From 1.7 GHz to 2.2 GHz Rated to 10 Watts

The FMCR1016 is a dual junction circulator offering 36 dB minimum dualjunction isolation over a frequency band of 1.7 to 2.2 GHz. This coaxial part uses N female connectors on all ports and has a power rating of 10 watts in the forward and reverse direction.

Fairview offers a wide variety of circulators to fit your needs. These unique devices enable two signals to use a single channel. The classic use of a circulator (a three port device) is for the line/coax between the antenna and a transceiver, allowing the signal to come from the antenna to the receiver while the transmit signal goes from the transmitter to the antenna. As a dual junction device, this is essentially two circulators in one package and has four ports. This allows for roughly twice the isolation of a standard circulator. By terminating one of the four ports (using a 50 ohm load), it becomes a three port device and can be connected as a standard circulator. An isolator can be created by terminating another port, creating a two port device. These devices 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.ty.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	1.7		2.2	GHz
Insertion Loss			0.8	dB
Dual Junction Isolation (ports 2-1, 4-3)	36			dB
Single Junction Isolation (ports 1-4, 3-2)		15		dB
VSWR			1.25:1	
Forward Power, CW			10	Watts
Forward Power, Peak			30	Watts
Reverse Power, CW			10	Watts

Electrical Specification Notes:

Values at 25°C, sea level.

Mechanical Specifications

 Size

 Length
 5 in [127 mm]

 Width
 1.02 in [25.91 mm]

 Height
 2.5 in [63.5 mm]

 Weight
 1.7 lbs [771.11 q]

Configuration

Design Dual Junction
Package Style Connectorized
Connector 1 N Female
Connector 2 N Female
Connector 3 N Female
Connector 4 N Female



Features:

- High Dual Junction
 Isolation of 36 dB
- Frequency Range of 1.7 to 2.2 GHz
- Female N Connectors
- VSWR of 1.25:1
- Forward and Reverse Power of 10 watts

Applications:

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

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Environmental Specifications

Temperature

Operating Range 0 to +50 deg C

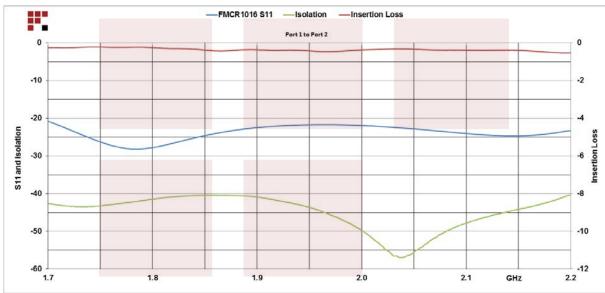
Compliance Certifications (see product page for current document)

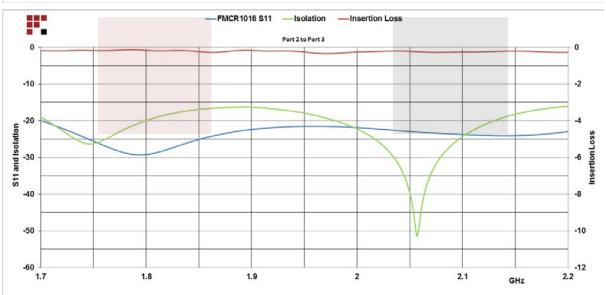
Plotted and Other Data

Notes:

• Values at 25°C, sea level.

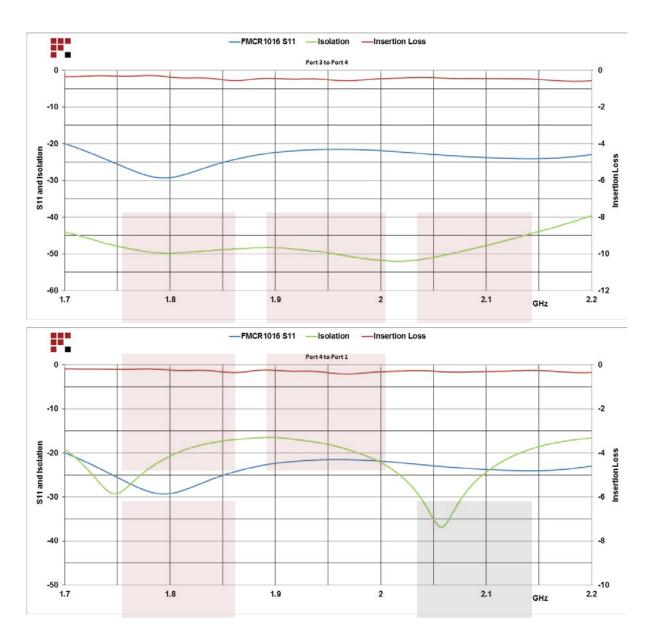
Typical Performance Data





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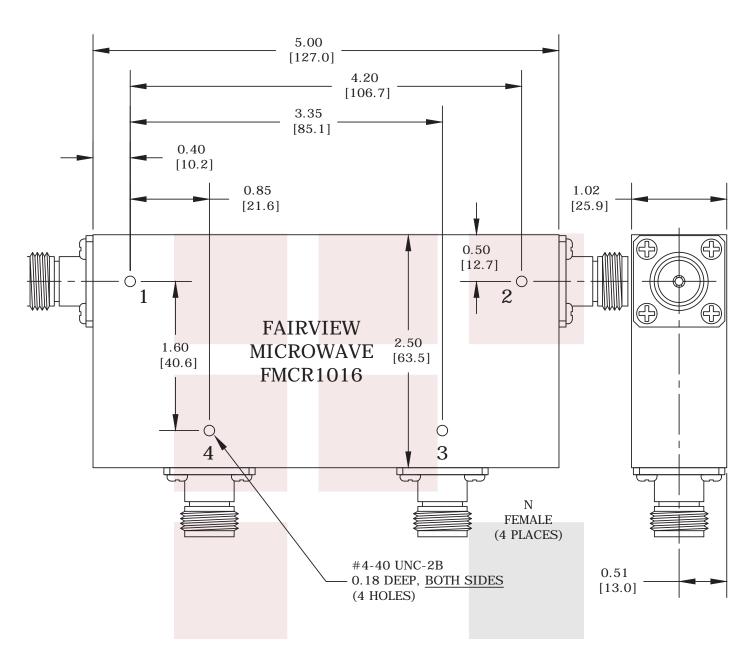
For additional information on this product, please click the following link: Dual Junction Circulator N Female With 36 dB Isolation From 1.7 GHz to 2.2 GHz Rated to 10 Watts FMCR1016

URL: https://www.fairviewmicrowave.com/dual-junction-circulator-n-female-40db-isolation-2.2-ghz-10-watts-fmcr1016-p. aspx

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TITLE

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1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
3. DIMENSIONS ARE IN INCHES [mm].

DWG NO FMCR1016				CAGE CODE 3FKR5			
CAD FILE	022416	SHEET	SCAL	E N/A	SIZE A	2233	