

N Directional Coupler 20 dB Coupled Port From 4 GHz to 8 GHz Rated To 50 Watts

Directional couplers are indispensable components for isolating, separating and combining signals. For example, they provide a simple way of sampling microwave signals. They also can make accurate attenuator measurements since reflections are eliminated. The MC4052-20 is a 20 dB directional coupler that operates from 4 GHz to 8 GHz with 13 dB directivity minimum and can handle up to 50 Watts of CW power. The package interface has type N inputs on all of the ports.

The MC4052-20 is part of Fairview Microwave's family of directional/dual-directional couplers that offer coupling ratio up to 50 dB with excellent performance featuring high directivity, low insertion loss and VSWR. They are available in both narrow and broad bandwidths and can be used in a wide variety of applications including signal sampling, VSWR measurements, power combining and distribution.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	4		8	GHz
Impedance		50		Ohms
Coupling		20 ±2		dB
Freq. Sensitivity		±0.85		dB
Insertion Loss			1.8	dB
Directivity	13			dB
Main Line VSWR			1.6:1	
Sec. Line VSWR			1.6:1	
Input Power (CW)			50	Watts
Reverse Power (CW)			50	Watts
Input Power (Peak)			3	KWatts

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

Mechanical Specifications

Size	
Length	1.9 in [48.26 mm]
Width/Dia.	1 in [25.4 mm]
Height	1 in [25.4 mm]
Weight	0.3184 lbs [144.42 g]

Configuration

Input Connector	N Female
Output Connector	N Female
Coupled Connectors	N Female

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:



Features:

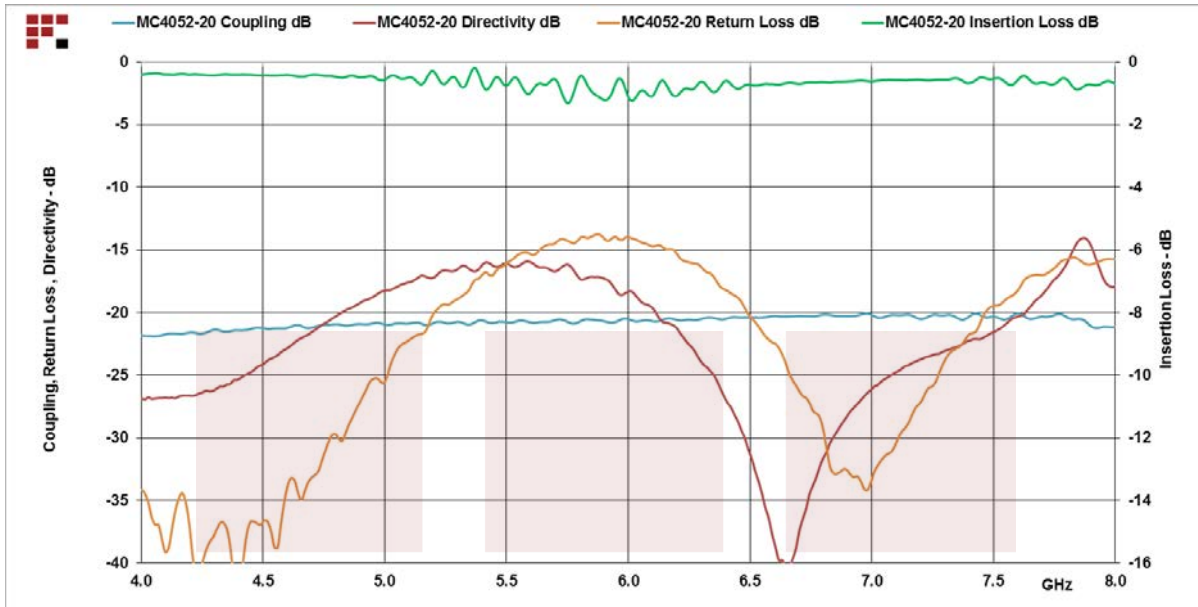
- Directional Coupler
- 4 GHz to 8 GHz Frequency Range
- Coupling 20±2 dB
- Directivity > 13 dB
- Max Power 50W (CW)

Applications:

- Test and Measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM

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

Typical Performance Data

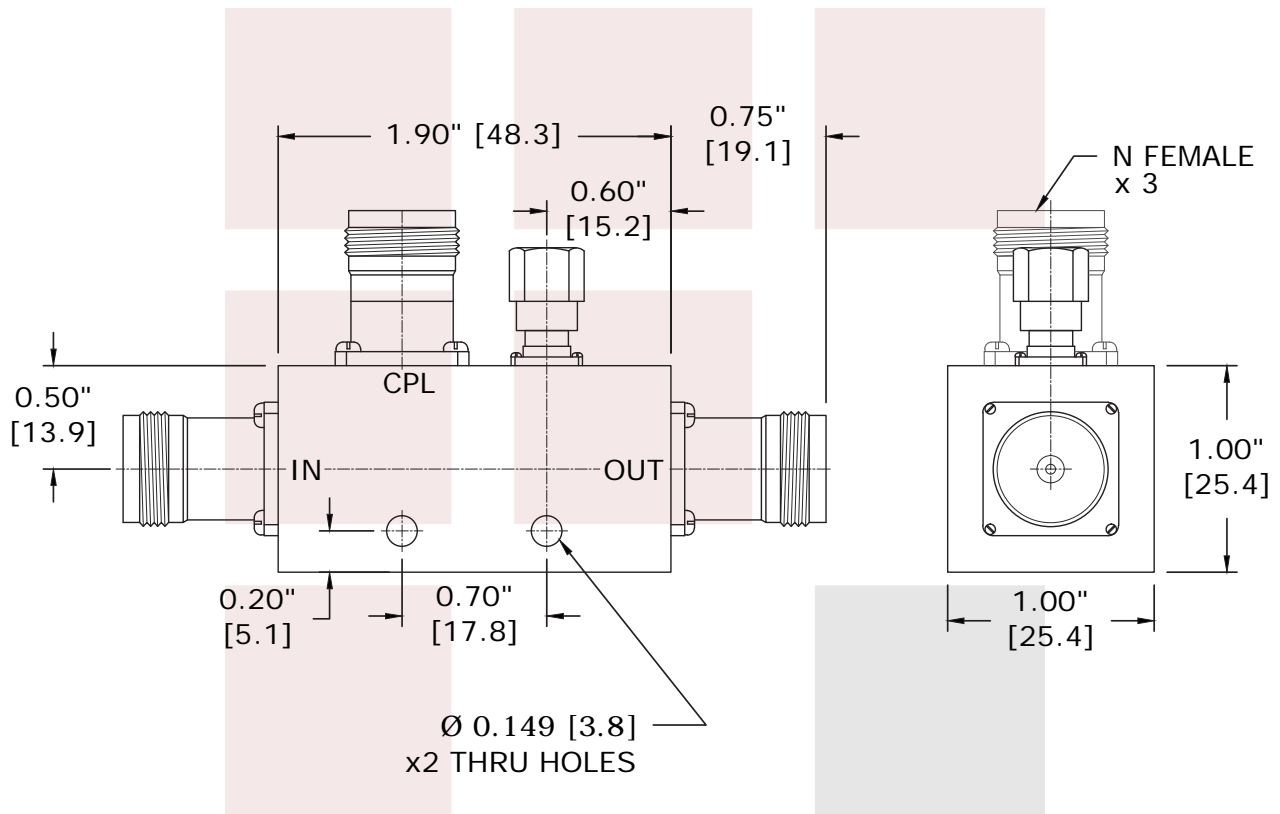


N Directional Coupler 20 dB Coupled Port From 4 GHz to 8 GHz Rated To 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [N Directional Coupler 20 dB Coupled Port From 4 GHz to 8 GHz Rated To 50 Watts MC4052-20](https://www.fairviewmicrowave.com/n-directional-coupler-20-db-8-ghz-mc4052-20)

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TITLE N Directional Coupler 20 dB Coupled Port From 4 GHz to 8 GHz Rated To 50 Watts		DWG NO MC4052-20		CAGE CODE 3FKR5	
CAD FILE	011415	SHEET	SCALE	N/A	SIZE A 5568