

MC4052-10 DATA SHEET

N Directional Coupler 10 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 MC4052-10 is a 10 dB directional coupler that operates from 4 GHz to 8 GHz with 17 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 MC4052-10 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	Тур	Max	Units
Frequency Range	4		8	GHz
Impedance		50		Ohms
Coupling		dB		
Freq. Sensitivity		±0.85		dB
Insertion Loss			1.8	dB
Directivity	17			dB
Main Line VSWR			1.5:1	
Sec. Line VSWR			1.5:1	
Input Power (CW)			50	Watts
Reverse Power (CW)			5	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
 0.317 lbs [143.79 g]

Configuration

Input ConnectorN FemaleOutput ConnectorN FemaleCoupled ConnectorsN 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 10±1.5 dB
- Directivity > 17 dB
- Max Power 50W (CW)

Applications:

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

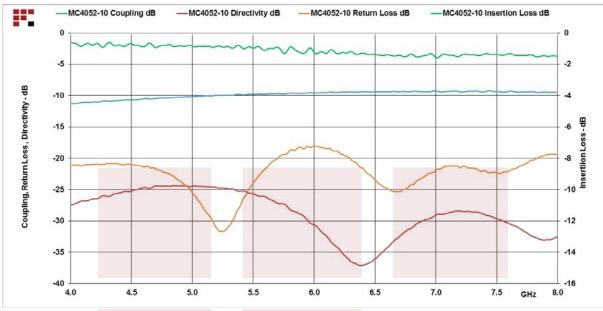
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Typical Performance Data



N Directional Coupler 10 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.

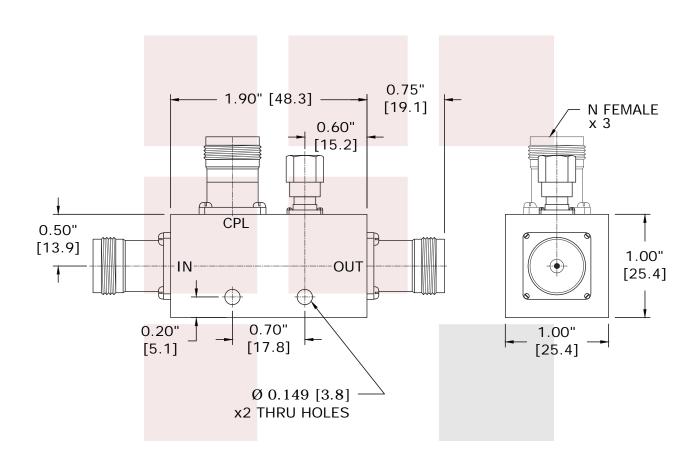
For additional information on this product, please click the following link: N Directional Coupler 10 dB Coupled Port From 4 GHz to 8 GHz Rated To 50 Watts MC4052-10

URL: https://www.fairviewmicrowave.com/n-directional-coupler-10-db-8-ghz-mc4052-10-p.aspx

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N Directional Coupler 10 dB Coupled Port From 4 GHz to 8 GHz Rated To 50 Watts	DWG NO MC4052-10			CAGE CODE 3FKR5		
	CAD FILE 011415	SHEET	SCALE	N/A	SIZE A	5568