

# **MC51008-10 DATA SHEET**

# SMA Directional Coupler 10 dB Coupled Port From 5 MHz to 1,000 MHz Rated To 1 Watts

This RF coupler from Fairview Microwave is just part of a wide selection of coaxial coupler products supplied for laboratory test and measurement, defense / military, antenna and other signal related uses. Our radio frequency coupler is directional and built with SMA ports. The Fairview Microwave directional coupler design uses SMA ports that have a gender of female and the impedance is 50 Ohm.

Directional coupler design for part number MC51008-10 from Fairview Microwave is rated for a 5 MHz minimum frequency and a 1000 MHz maximum frequency. Our directional coupler is designed with a 10 dB coupling value and a directional dB coupler directivity. This female SMA directional coupler is rated for a 0 dB maximum insertion loss and a 1 watts maximum input power.

Fairview is where to buy a directional coupler with SMA that is rated for a 0 dB maximum insertion loss and a 1.5 maximum VSWR. More female SMA coupler specs for this radio frequency component can be found on its directional coupler PDF specifications datasheet above. MC51008-10 directional 10 dB SMA coupler is part of over a million RF, microwave and millimeter wave components supplied by Fairview and this component can be bought and then shipped worldwide the same-day as with Fairview Microwave's other in-stock RF parts.

### **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	5		1,000	MHz
Impedance		50		Ohms
Coupling	10 ±0.5			dB
Freq. Sensitivity			±0.5	dB
Main Line Loss			1.6	dB
Directivity	23			dB
Main Line VSWR			1.3:1	
Input Power (CW)			1	Watt

#### **Mechanical Specifications**

Size

 Length
 0.9 in [22.86 mm]

 Width/Dia.
 0.9 in [22.86 mm]

 Height
 0.5 in [12.7 mm]

 Weight
 0.0575 lbs [26.08 g]

#### Configuration

Input Connector SMA Female
Output Connector SMA Female
Coupled Connectors SMA Female

## **Environmental Specifications Temperature**

Operating Range +80 to -25 deg C



#### **Features:**

- Directional Coupler
- 5 MHz to 1,000 MHz Frequency Range
- Coupling 10±0.5 dB
- Directivity > 23 dB
- Max Power 1W (CW)

### **Applications:**

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

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**Compliance Certifications** (see product page for current document)

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

Notes:

SMA Directional Coupler 10 dB Coupled Port From 5 MHz to 1,000 MHz Rated To 1 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SMA Directional Coupler 10 dB Coupled Port From 5 MHz to 1,000 MHz Rated To 1 Watts MC51008-10

URL: https://www.fairviewmicrowave.com/sma-directional-coupler-10-db-1000-mhz-2-watts-mc51008-10-p.aspx

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