

SMA Directional Coupler 20 dB Coupled Port From 5 MHz to 1,000 MHz Rated To 3 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 MC51008-20 from Fairview Microwave is rated for a 5 MHz minimum frequency and a 1000 MHz maximum frequency. Our directional coupler is designed with a 20 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 3 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. MC51008-20 directional 20 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	Typ	Max	Units
Frequency Range	5		1,000	MHz
Impedance		50		Ohms
Coupling		20 ±0.5		dB
Freq. Sensitivity			±0.5	dB
Main Line Loss			1.2	dB
Directivity	20			dB
Main Line VSWR			1.3:1	
Input Power (CW)			3	Watts

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	0.0536 lbs [24.31 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 20±0.5 dB
- Directivity > 20 dB
- Max Power 3W (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 20 dB Coupled Port From 5 MHz to 1,000 MHz Rated To 3 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Directional Coupler 20 dB Coupled Port From 5 MHz to 1,000 MHz Rated To 3 Watts MC51008-20](#)

URL: <https://www.fairviewmicrowave.com/sma-directional-coupler-20-db-1000-mhz-2-watts-mc51008-20-p.aspx>

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