

SMA Directional Coupler 20 dB Coupled Port From 1 GHz to 2 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 MC2017-20 is a 20 dB directional coupler that operates from 1 to 2 GHz and can handle up to 50 Watts (CW) with 25 dB directivity minimum and 1.1:1 VSWR maximum. The package interface uses SMA female connectors, and is also REACH and RoHS compliant.

The MC2017-20 is part of Fairview Microwave's family of directional/dual-directional couplers that offer coupling ratios 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

Mechanical Specifications

Size

Description	Min		Тур	Max	Units
Frequency Range	1			2	GHz
Impedance			50		Ohms
Coupling		20	±1.2	5	dB
Freq. Sensitivity				±0.75	dB
Insertion Loss				0.2	dB
Directivity	25				dB
Main Line VSWR				1.1:1	
Input Power (CW)				50	Watts

MC2017-20 **DATA SHEET**

Features:

- Directional Coupler
- 1 to 2 GHz Frequency Range
- Coupling 20±1.25 dB
- Directivity > 25 dB
- Low VSWR < 1.1:1
- Max Power 50 Watts (CW)

Applications:

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

Length Width/Dia. Height	1.84 in [46.74 mm] 0.4 in [10.16 mm] 0.54 in [13.72 mm]
Weight	0.077 lbs [34.93 g]
Finish	Blue
Configuration Input Connector Output Connector	SMA Female SMA Female
Coupled Connectors	SMA Female

Environmental Specifications

Temperature Operating Range

-55 to +110 deg C

Compliance Certifications (see product page for current document)

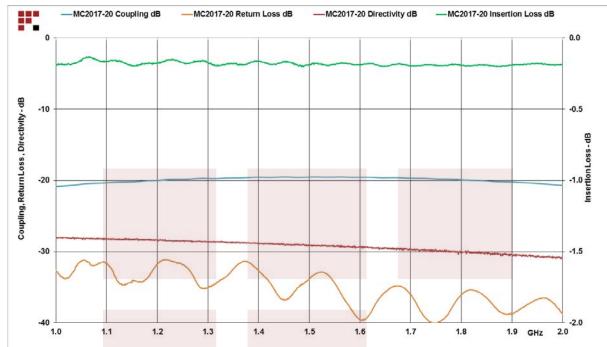
Plotted and Other Data

Notes:

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Typical Performance Data

SMA Directional Coupler 20 dB Coupled Port From 1 GHz to 2 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

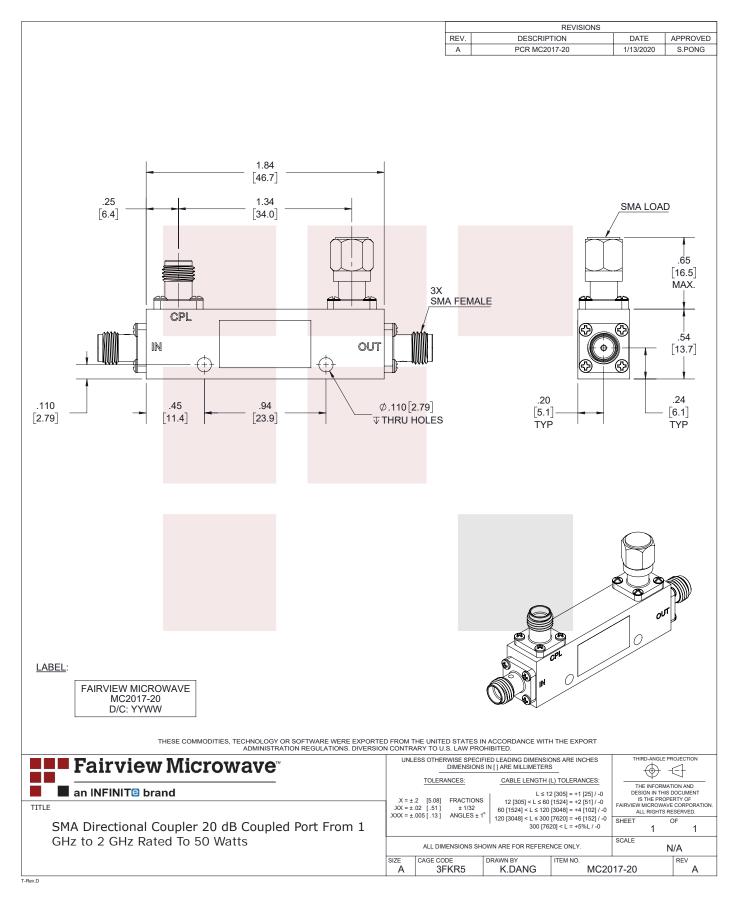
For additional information on this product, please click the following link: SMA Directional Coupler 20 dB Coupled Port From 1 GHz to 2 GHz Rated To 50 Watts MC2017-20

URL: https://www.fairviewmicrowave.com/sma-directional-coupler-20-db-2-ghz-50-watts-mc2017-20-p.aspx

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