

FMCP1025-20 DATA SHEET

SMA Directional Coupler 20 dB Coupled Port From 800 MHz to 2.5 GHz Rated To 50 Watts

The FMCP1025-20 is an 20 dB RF coupler with 50 ohm SMA connectors operating from 0.8 to 2.5 GHz with a maximum input power of 50 Watts, and peak power handling of 1 kilowatt. The FMCP1025-20 has a coupling factor of 1 dB, insertion loss of 0.4 (excluding coupled power) and a maximum VSWR of 1.20. The coupler operates over a temperature range of -55° to 125° C and meets military environmental standard for humidity, shock, vibration, altitude and temperature. Couplers have many application and perform many valuable functions within the RF/Microwave world such as circuit feedback and signal sampling for measurement or monitoring.



Description	Min	Тур	Max	Units
Frequency Range	0.8		2.5	GHz
Impedance		50		Ohms
Coupling		dB		
Freq. Sensitivity			0.7	dB
Insertion Loss			0.4	dB
Directivity	20			dB
Main Line VSWR			1.2:1	
Input Power (CW)			50	Watts
Input Power (Peak)			1	KWatts

Electrical Specification Notes:

Values at 25°C, sea level.

Mechanical Specifications

Size

 Length
 4.1 in [104.14 mm]

 Width/Dia.
 0.63 in [16 mm]

 Height
 0.9 in [22.86 mm]

 Weight
 0.13 lbs [58.97 g]

Configuration

Input ConnectorSMA FemaleOutput ConnectorSMA FemaleCoupled ConnectorsSMA Female

Environmental Specifications

Temperature

Operating Range -55 to +85 deg C Storage Range -65 to +125 deg C

Humidity MIL-STD-202F METHOD 103B COND. B Shock MIL-STD-202F METHOD 213B COND. B Vibration MIL-STD-202F METHOD 204D COND. B Altitude MIL-STD-202F METHOD 105C COND. B Temperature Cycle MIL-STD-202F METHOD 107D COND. A



Features:

- 0.8 to 2.5 GHz
- 50 Watts Max Power
- 20 dB Coupling Value
- Directional SMA Coupler
- Meets MIL-STD-202F for Humidity, Shock, Vibration, Altitude, Temperature Cycle

Applications:

- Communications Systems
- CDMA,GSM,LTE
- Amplifier Systems
- Amplifier Power Dividing
- Aviation/Aerospace
- Defense Applications

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Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes

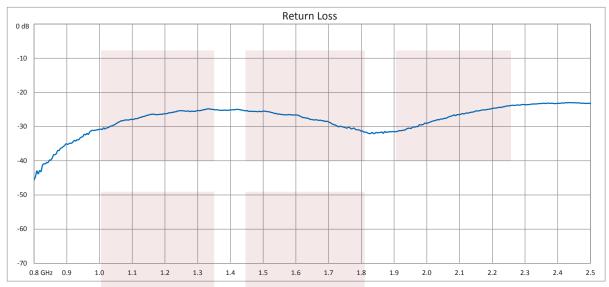
REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

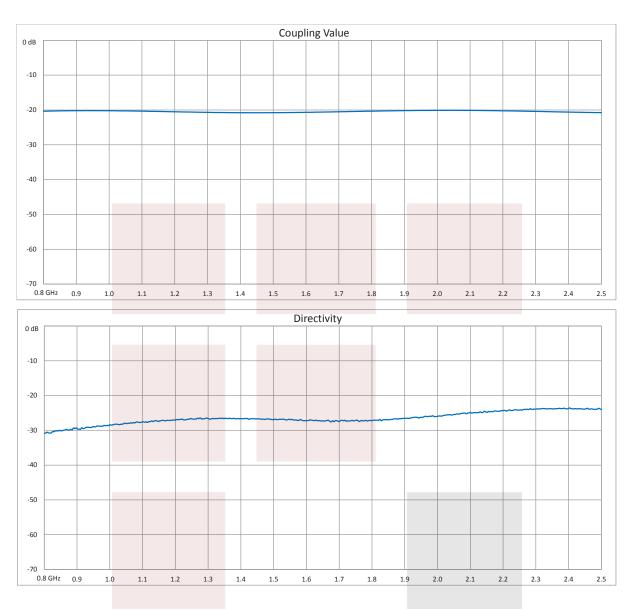
Values at 25°C, sea level.

Typical Performance Data









SMA Directional Coupler 20 dB Coupled Port From 800 MHz to 2.5 GHz Rated To 50 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 Allen, Texas. Fairview Microwave is RF on-demand.

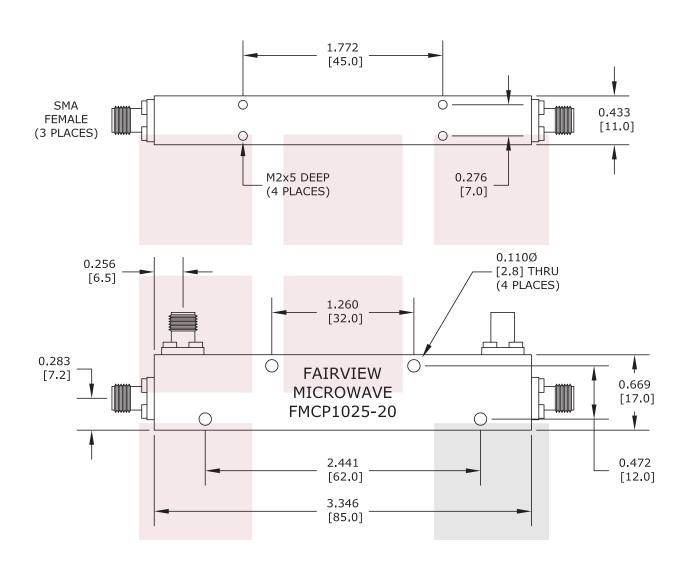
For additional information on this product, please click the following link: SMA Directional Coupler 20 dB Coupled Port From 800 MHz to 2.5 GHz Rated To 50 Watts FMCP1025-20

URL: https://www.fairviewmicrowave.com/sma-directional-coupler-20-db-2.5-ghz-50-watts-fmcp1025-20-p.aspx

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SMA Directional Coupler 20 dB Coupled Port From 800 MHz to 2.5 GHz Rated To 50 Watts	DWG NO FMCP1025-20			CAGE CODE 3FKR5		
	CAD FILE 041415	SHEET	SCALE	N/A	SIZE A	2233