

N Directional Coupler 20 dB Coupled Port From 800 MHz to 2.5 GHz Rated To 60 Watts

The FMCP1023-20 is an 20 dB RF coupler with 50 ohm N connectors operating from 0.8 to 2.5 GHz with a maximum input power of 60 Watts, and peak power handling of 1 kilowatt. The FMCP1023-20 has a coupling factor of 1 dB, insertion loss of 0.4 (excluding coupled power) and a maximum VSWR of 1.25. 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.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	0.8		2.5	GHz
Impedance		50		Ohms
Coupling		20 ±1		dB
Freq. Sensitivity			±0.7	dB
Insertion Loss			0.4	dB
Directivity	20			dB
Main Line VSWR			1.25:1	
Input Power (CW)			60	Watts
Input Power (Peak)			1	KWatts

Mechanical Specifications

Size	
Length	5.63 in [143 mm]
Width/Dia.	0.825 in [20.96 mm]
Height	1.94 in [49.28 mm]
Weight	0.5305 lbs [240.63 g]

Configuration

Package Type	Connectorized
Input Connector	N Female
Output Connector	N Female
Coupled Connectors	N 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
- 60 Watts Max Power
- 20 dB Coupling Value
- Directional N 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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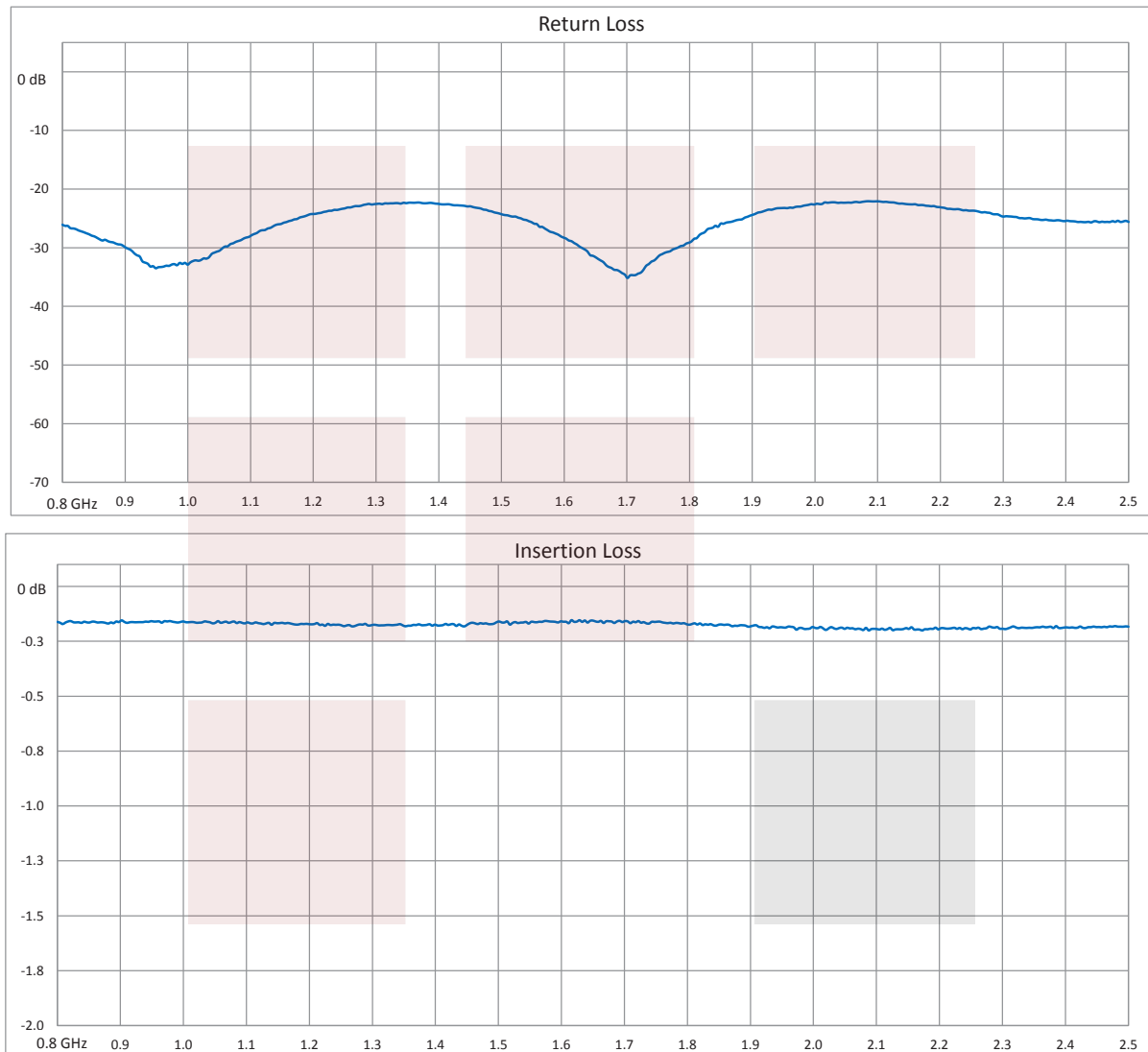
Compliance Certifications (see [product page](#) for current document)

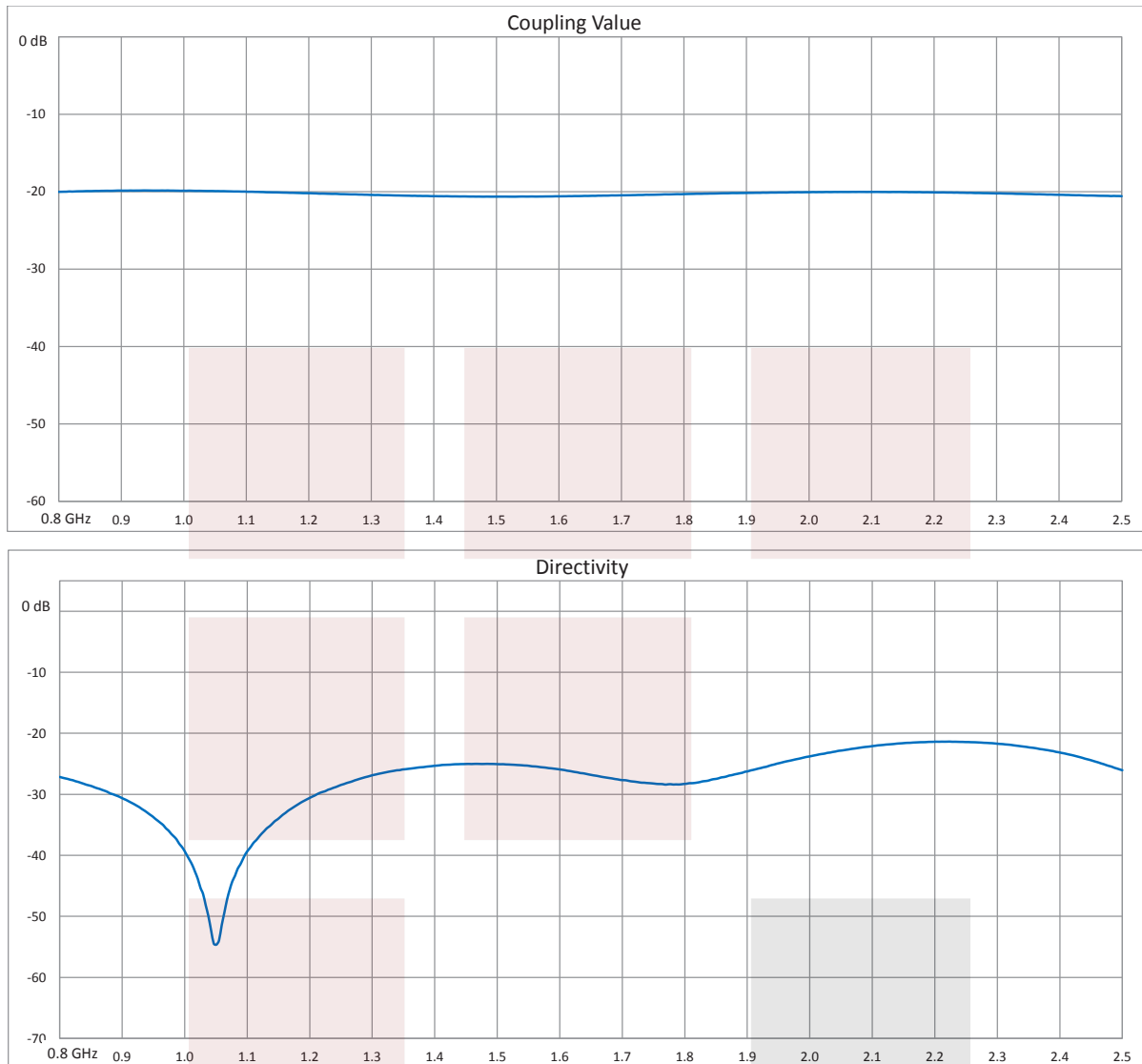
Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Typical Performance Data





N Directional Coupler 20 dB Coupled Port From 800 MHz to 2.5 GHz Rated To 60 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 20 dB Coupled Port From 800 MHz to 2.5 GHz Rated To 60 Watts FMCP1023-20](https://www.fairviewmicrowave.com/n-directional-coupler-20-db-2.5-ghz-60-watts-fmcp1023-20-p.aspx)

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