

SMA Directional Coupler 30 dB Coupled Port From 800 MHz to 2.5 GHz Rated To 50 Watts

The FMCP1024-30 is an 30 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 FMCP1024-30 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.



Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	0.8		2.5	GHz
Impedance		50		Ohms
Coupling		30 ±1		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

Features:

- 0.8 to 2.5 GHz
- 50 Watts Max Power
- 30 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

Mechanical Specifications

Size	
Length	5.99 in [152.15 mm]
Width/Dia.	0.435 in [11.05 mm]
Height	0.965 in [24.51 mm]
Weight	0.13 lbs [58.97 g]

Configuration

Package Type	Connectorized
Input Connector	SMA Female
Output Connector	SMA Female
Coupled Connectors	SMA 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

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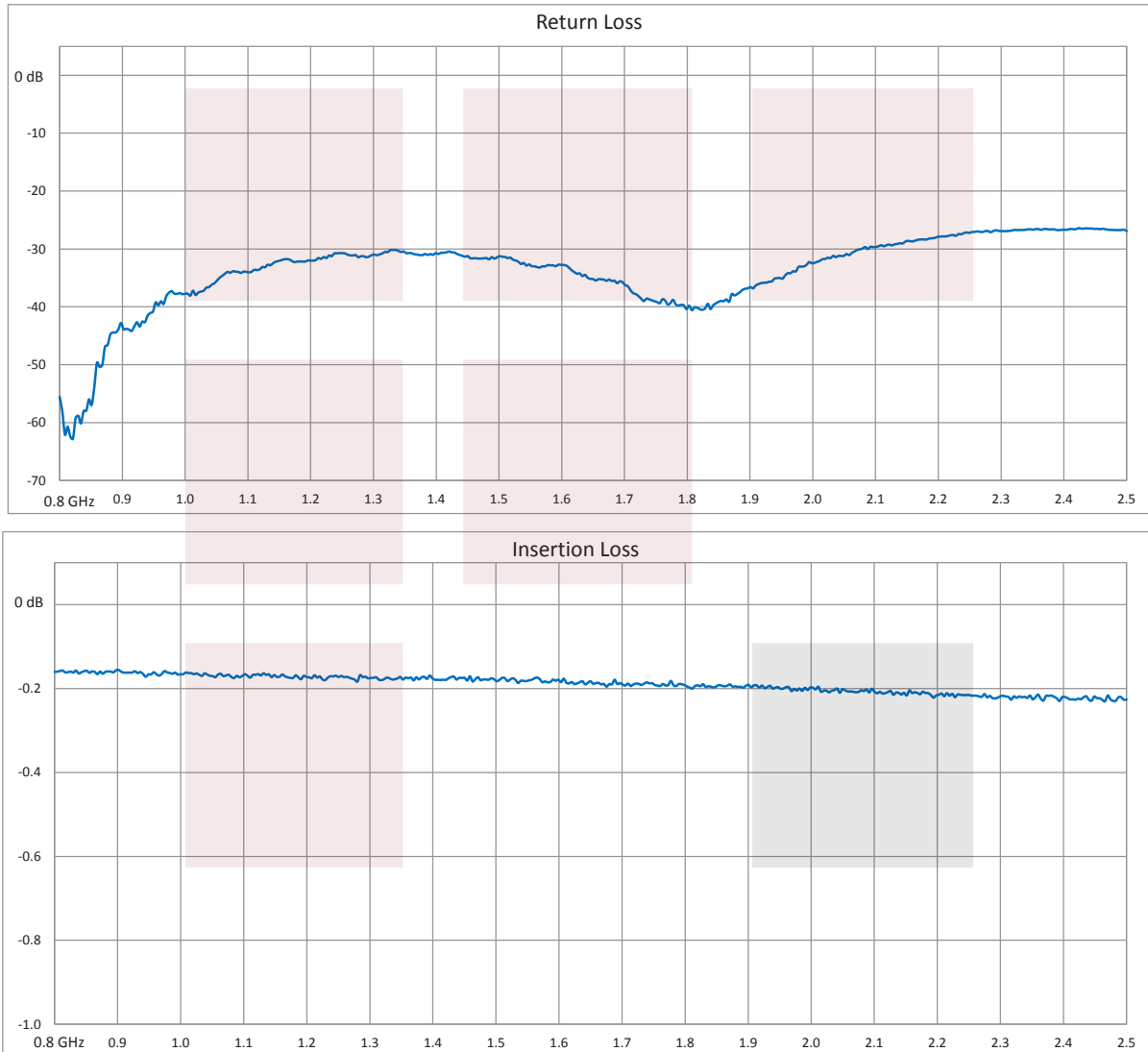
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

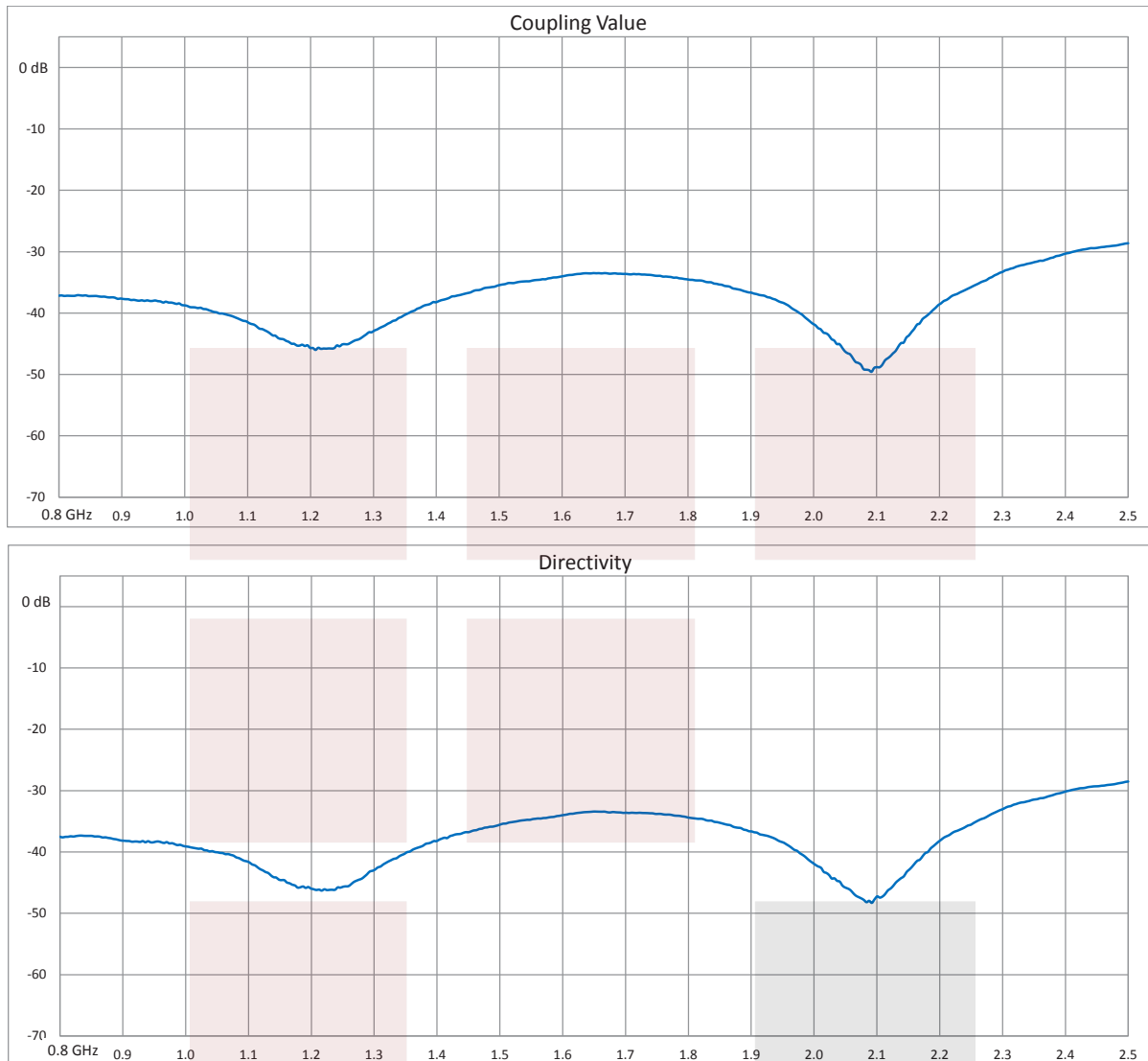
RoHS Compliant Yes
 REACH Compliant 12/17/2015

Plotted and Other Data

- Notes:
 • Values at 25°C, sea level.

Typical Performance Data



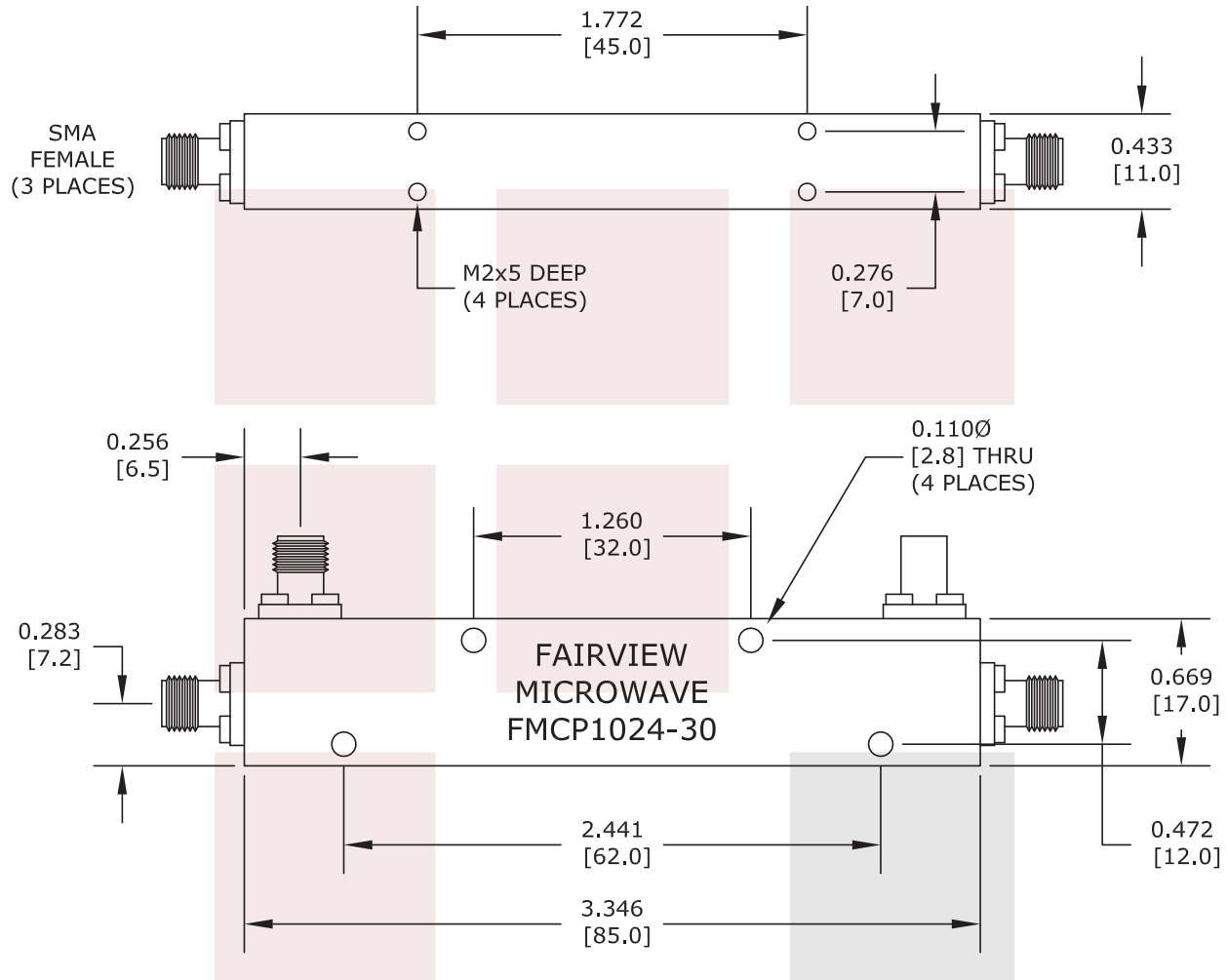


SMA Directional Coupler 30 dB Coupled Port From 800 MHz to 2.5 GHz Rated To 50 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Directional Coupler 30 dB Coupled Port From 800 MHz to 2.5 GHz Rated To 50 Watts FMCP1024-30](http://www.fairviewmicrowave.com/sma-directional-coupler-30-db-2.5-ghz-50-watts-fmcp1024-30.aspx)

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TITLE SMA Directional Coupler 30 dB Coupled Port From 800 MHz to 2.5 GHz Rated To 50 Watts		DWG NO FMCP1024-30		CAGE CODE 3FKR5	
CAD FILE	041415	SHEET	SCALE	N/A	SIZE A 2233