

N Dual Directional Coupler 40 dB Coupled Port From 500 MHz to 3 GHz Rated To 200 Watts

The FMCP1013 is an High Power 40 dB RF coupler with 50 ohm N type input/output connectors and SMA forward and reverse coupled connectors operating from 500 to 3,000 MHz with a maximum input power of 200 Watts CW. The FMCP1013 has a forward and reverse coupling factor of 1 dB, insertion loss of 0.35 (excluding coupled power) and a maximum VSWR of 1.25:1. The coupler operates over a temperature range of -55° to 85° C with an Aluminum body and Chem File clear coat per MIL-DTL-5541, type 2 . 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	0.5		3	GHz
Impedance		50		Ohms
Coupling		40 ±1		dB
Freq. Sensitivity			±0.5	dB
Insertion Loss			0.35	dB
Directivity	18			dB
Main Line VSWR			1.25:1	
Input Power (CW)			200	Watts

Mechanical Specifications

Size

Length	2.5 in [63.5 mm]
Width/Dia.	0.9 in [22.86 mm]
Height	1.3 in [33.02 mm]
Weight	0.4195 lbs [190.28 g]
Housing Material and Plating	Aluminum Alloy, Chem Film
Housing Plating Specification	MIL-DTL-5541

Configuration

Input Connector	N Female
Output Connector	N Female
Coupled Connectors	SMA Female

Environmental Specifications

Temperature

Operating Range	+85 to -55 deg C
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Features:

- 500 to 3,000 MHz
- 200 Watts CW Max Power
- 40 dB Forward and Reverse Coupling
- Dual Directional N type Female Coupler
- SMA Female Coupled Ports
- Aluminum Clear Chem Film Meets MIL-DTL-5541

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

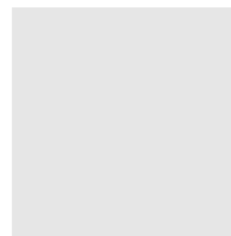
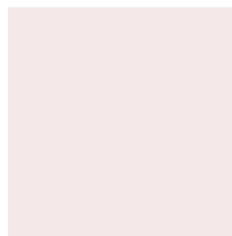
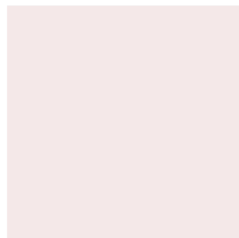
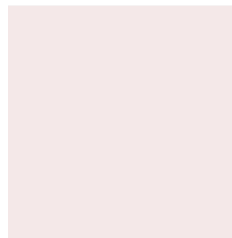
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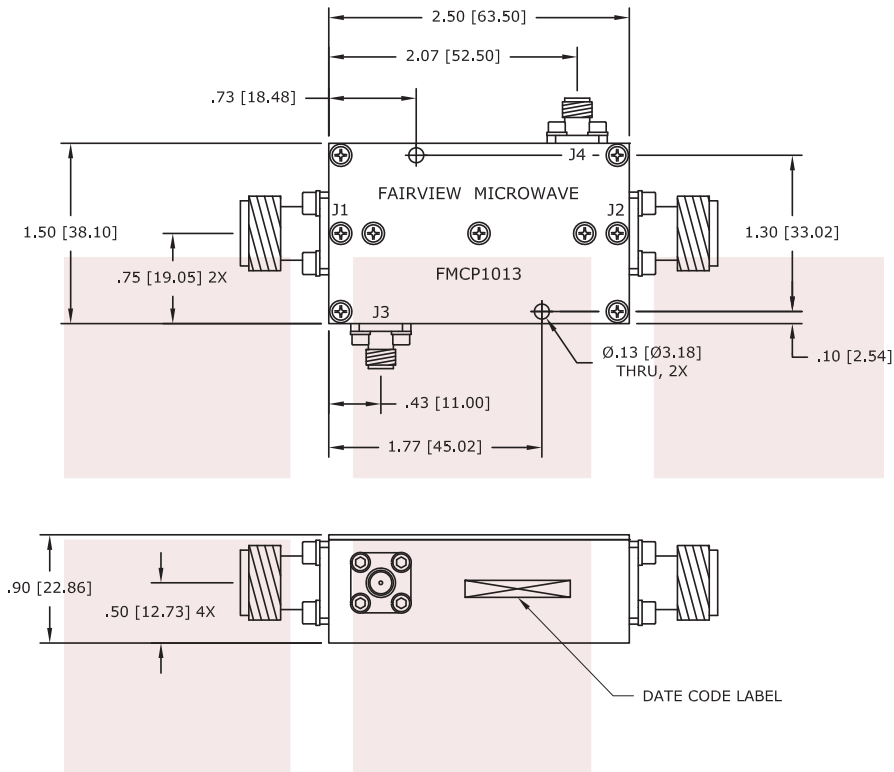
N Dual Directional Coupler 40 dB Coupled Port From 500 MHz to 3 GHz Rated To 200 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [N Dual Directional Coupler 40 dB Coupled Port From 500 MHz to 3 GHz Rated To 200 Watts FMCP1013](#)

URL: <https://www.fairviewmicrowave.com/n-dual-directional-coupler-40-db-3-ghz-200-watts-fmcp1013-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.





INPUT	OUTPUT	FORWARD COUPLING	REFLECTED COUPLING
J1	J2	J3	J4
J2	J1	J4	J3

TOLERANCE .XX ±.02
.XXX ±.005
ANG. ±1/2°

* THESE DIMENSIONS AND TOLERANCES
SUPERSEDE NOTE #1 ON TITLE BLOCK.

FAIRVIEW MICROWAVE INC.

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TITLE
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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG NO		FMCP1013		CAGE CODE		3FKR5					
CAD FILE		041015		SHEET		SCALE N/A		SIZE A		2233	