

**SMA Directional Coupler 10 dB Coupled Port From
 500 MHz to 18 GHz Rated To 30 Watts**

Electrical Specifications*



Description	Min	Typ	Max	Units
Frequency Range	0.5		18	GHz
Directivity	20			dB
Impedance		50		Ohms
Insertion Loss			2.06	dB
Input Power			30	Watts
Input VSWR			1.37:1	
Peak Power			3	KWatts
Coupling Value		10		dB
Coupling Tolerance			± 1.25	dB
Frequency Sensitivity		1		dB

* Values at 25°C, sea level

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	0.5 to 4	4 to 8	8 to 12.4	12.4 to 18		GHz
Insertion Loss	0.96	1.16	1.6	2.06		dB
VSWR	1.22	1.22:1	1.28:1	1.37:1		

Features:

- Connector 1: SMA Female
- Connector 2: SMA Female
- Coupled Connectors: SMA Female
- Design: Directional Coupler

Mechanical Specifications

Size

Length 5.15 in [130.81 mm]
 Width/Dia. 0.38 in [9.65 mm]
 Height 1.11 in [28.19 mm]

Connector 1

Type SMA Female

Connector 2

Type SMA Female

Connector 3

Type SMA Female

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

RoHS Compliant Yes

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

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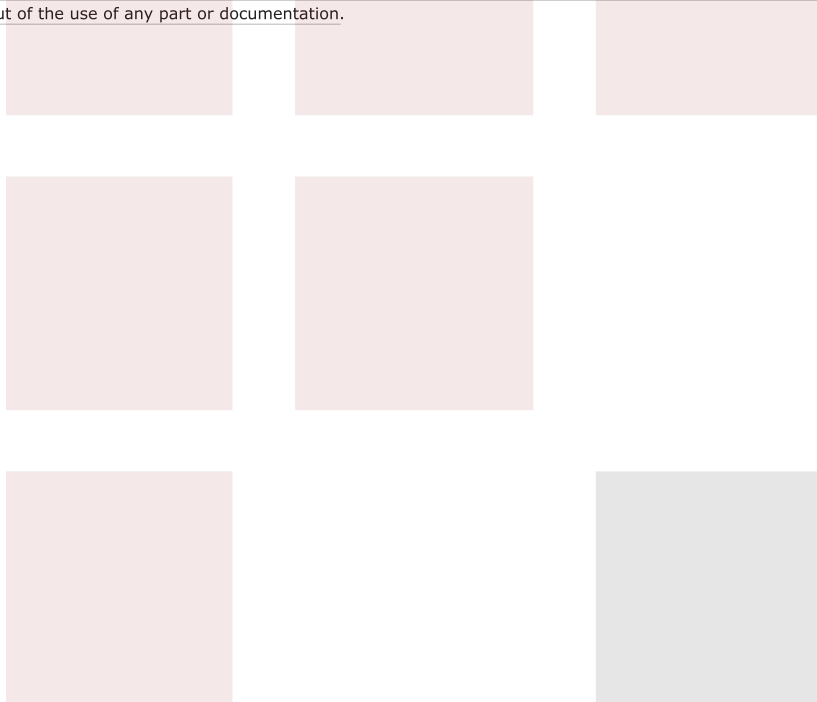
Power Data

SMA Directional Coupler 10 dB Coupled Port From 500 MHz to 18 GHz Rated To 30 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.

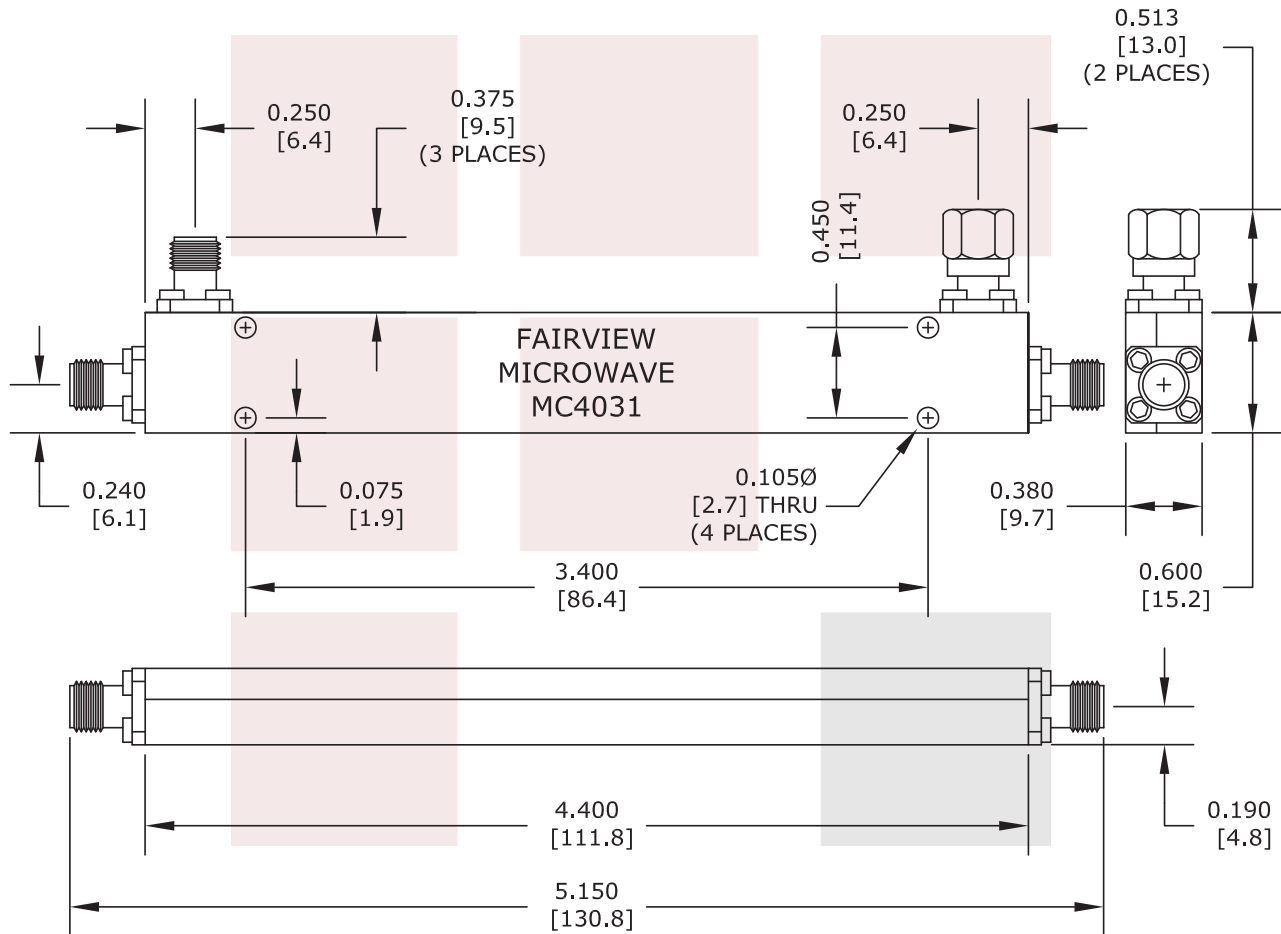
For additional information on this product, please click the following link: [SMA Directional Coupler 10 dB Coupled Port From 500 MHz to 18 GHz Rated To 30 Watts MC4031-10](#)

URL: <http://www.fairviewmicrowave.com/sma-directional-coupler-10-db-18-ghz-30-watts-mc4031-10-p.aspx>

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ATTEN.	P/N
10 dB	MC4031-10
20 dB	MC4031-20
30 dB	MC4031-30



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TITLE SMA Directional Coupler 10 dB Coupled Port From 500 MHz to 18 GHz Rated To 30 Watts		DWG NO MC4031		CAGE CODE 3FKR5	
CAD FILE	091614	SHEET	SCALE	N/A	SIZE A 2233