

**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
Impedance		50		Ohms
Coupling		10 ±1.25		dB
Freq. Sensitivity			±1	dB
Insertion Loss			2.06	dB
Directivity	20			dB
Main Line VSWR			1.37:1	
Input Power (CW)			30	Watts
Input Power (Peak)			3	kWatts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.5 to 4	4 to 8	8 to 12	12.4 to 18		GHz
Insertion Loss, Typ	0.96	1.16	1.6	2.06		dB
Main Line VSWR, Typ	1.22:1	1.22:1	1.28:1	1.37:1		

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]
Weight	0.13 lbs [58.97 g]

Configuration

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



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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

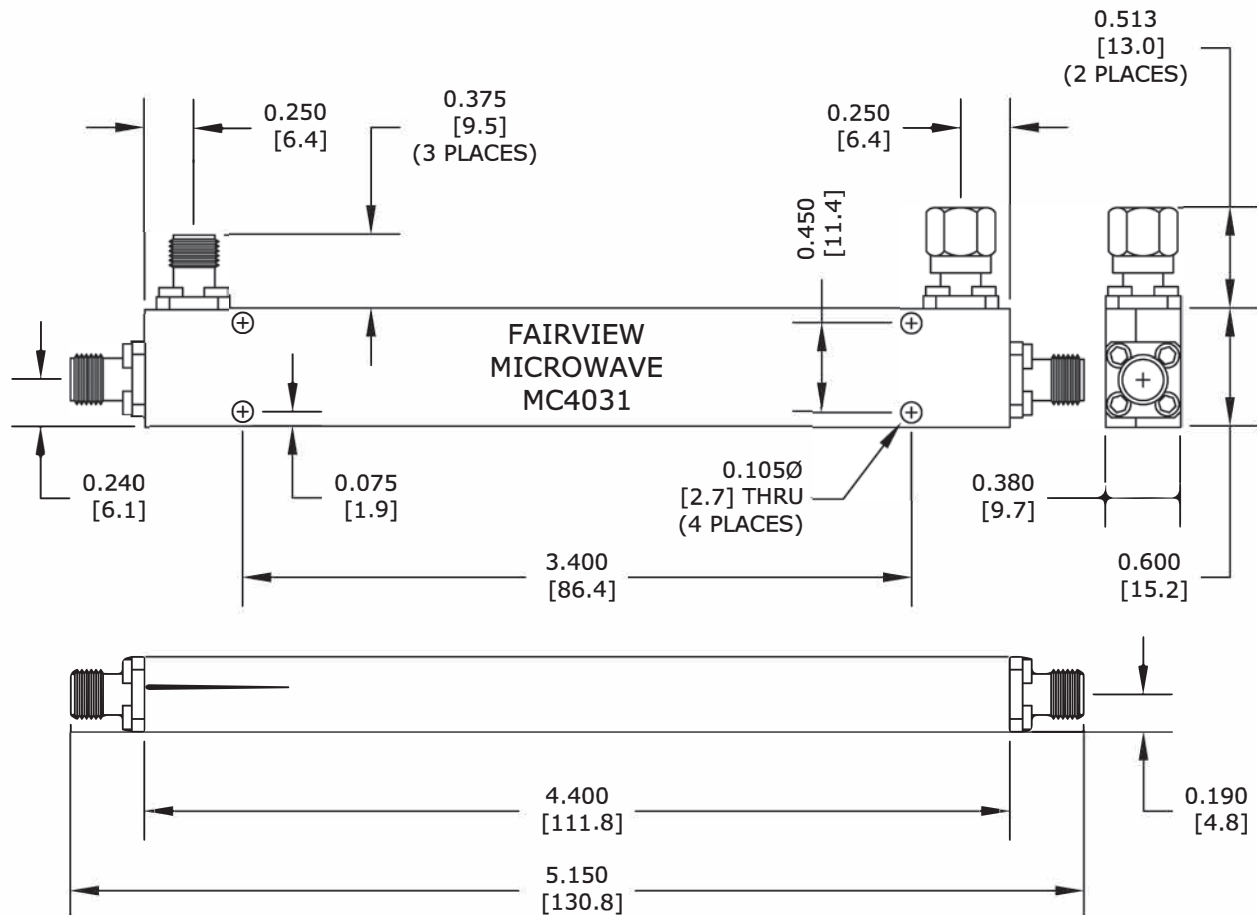
SMA Directional Coupler 10 dB Coupled Port From 500 MHz to 18 GHz Rated To 30 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is 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: <https://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



FAIRVIEW MICROWAVE INC.		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].			
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TITLE		MC4031		3FKR5	
SMA Directional Coupler 10 dB Coupled Port From 500 MHz to 18 GHz Rated To 30 Watts		CAD FILE	091614	SHEET	2233
		SCALE	N/A	SIZE	A