

SMC4037-10 DATA SHEET

N Directional Coupler 10 dB Coupled Port From 700 MHz to 2.7 GHz Rated To 60 Watts

Directional couplers are indispensable components for isolating, separating and combining signals. For example, they provide a simple way of sampling microwave signals. They also can make accurate attenuator measurements since reflections are eliminated. The SMC4037-10 is a 10 dB directional coupler that operates from 0.7 to 2.7 GHz with 20 dB directivity minimum and 1.25:1 VSWR maximum. The package interface uses N female connectors, and is also RoHS compliant.

The SMC4037-10 is part of Fairview Microwave's family of directional/dualdirectional couplers that offer coupling ratio up to 50 dB with excellent performance featuring high directivity, low insertion loss and VSWR. They are available in both narrow and broad bandwidths and can be used in a wide variety of applications including signal sampling, VSWR measurements, power combining and distribution.

Electrical Specifications

Min	Ту	/p	Max	Units
0.7			2.7	GHz
	5	0		Ohms
10 ±0.8				dB
			0.7	dB
	0.	5		dB
20				dB
			1.25:1	
			60	Watts
	0.7	0.7 5 10 ±	0.7 50 10 ±0.8 0.5	0.7 2.7 50 10 ±0.8 0.7 0.7 0.5 1.25:1

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Size	
Length	4.13 in [104.9 mm]
Width/Dia.	0.83 in [21.08 mm]
Height	1.18 in [29.97 mm]
Weight	0.41315 lbs [187.4 g]

Configuration

Package Type Input Connector Output Connector Coupled Connectors

Environmental Specifications

TemperatureOperating RangeStorage Range-20 to +70 deg C-40 to +70 deg C

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

RoHS Compliant

Connectorized

N Female N Female

N Female



Features:

- Directional Coupler
- 0.7 to 2.7 GHz Frequency Range
- Coupling 10±0.8 dB
- Directivity > 20 dB
- VSWR < 1.25:1
- Max Power 60 Watts (CW)

Applications:

- Test and Measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM

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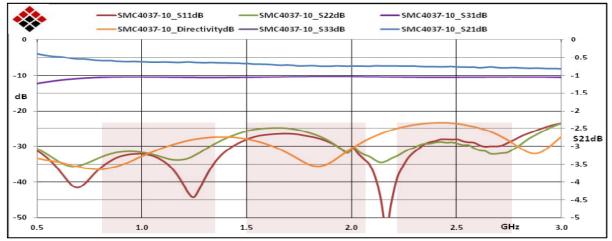




Plotted and Other Data

Notes:

Typical Performance Data



N Directional Coupler 10 dB Coupled Port From 700 MHz to 2.7 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 10 dB Coupled Port From 700 MHz to 2.7 GHz Rated To 60 Watts SMC4037-10

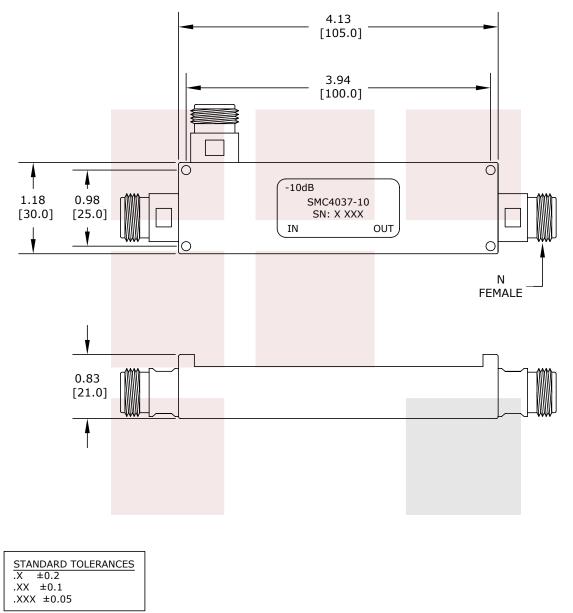
URL: http://www.fairviewmicrowave.com/n-directional-coupler-10-db-2.7-ghz-60-watts-smc4037-10-p.aspx

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*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].						
N Directional Coupler 10 dB Coupled Port From 700 MHz to 2.7 GHz Rated To 60 Watts	DWG NO SMC4037-10			CAGE CODE 3FKR5			
	CAD FILE 041316	SHEET	SCALE N/A		SIZE A	3045	

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