

MC2017-06 DATA SHEET

SMA Directional Coupler 6 dB Coupled Port From 1 GHz to 2 GHz Rated To 4 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 MC2017-06 is a 6 dB directional coupler that operates from 1 to 2 GHz and can handle up to 50 Watts (CW) with 25 dB directivity minimum and 1.15:1 VSWR maximum. The package interface uses SMA female connectors, and is also REACH and RoHS compliant.

The MC2017-06 is part of Fairview Microwave's family of directional/dual-directional couplers that offer coupling ratios 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

Description	Min	Тур	Max	Units
Frequency Range	1		2	GHz
Impedance		50		Ohms
Coupling		6 ±1		dB
Freq. Sensitivity			±0.6	dB
Insertion Loss			0.2	dB
Directivity	25			dB
Main Line VSWR			1.15:1	
Input Power (CW)			4	Watts



Features:

- Directional Coupler
- 1 to 2 GHz Frequency Range
- Coupling 6±1.0 dB
- Directivity > 25 dB
- Low VSWR < 1.15:1
- Max Power 50 Watts (CW)

Applications:

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

Mechanical Specifications

Size

 Length
 1.84 in [46.74 mm]

 Width/Dia.
 0.4 in [10.16 mm]

 Height
 0.54 in [13.72 mm]

 Weight
 0.0675 lbs [30.62 g]

Finish Blue

Configuration

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

Environmental Specifications

Temperature

Operating Range -55 to +110 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

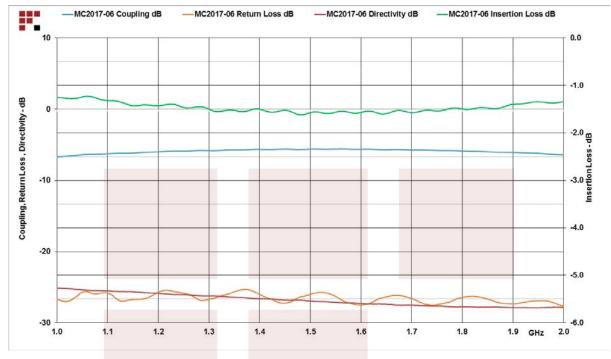
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Typical Performance Data



SMA Directional Coupler 6 dB Coupled Port From 1 GHz to 2 GHz Rated To 4 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 6 dB Coupled Port From 1 GHz to 2 GHz Rated To 4 Watts MC2017-06

URL: https://www.fairviewmicrowave.com/sma-directional-coupler-6-db-2-ghz-4-watts-mc2017-06-p.aspx

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