



SMA Directional Coupler 10 dB 7 GHz to 12.4 GHz Rated to 50 Watts

The FMCP1105 is an 10 dB RF coupler with 50 ohm SMA connectors operating from 7 to 12.4 GHz with a maximum input power of 50 Watts CW, and peak power handling of 3 kilowatt. The FMCP1105 has a coupling factor of 1 dB, insertion loss of (excluding coupled power) and a maximum VSWR of 1.3:1.The coupler operates over a temperature range of -45° to 85° C and meets environmental standard for humidity, shock, vibration, and altitude. Couplers have many Applications and perform several functions within the RF/Microwave industry such as circuit feedback and signal sampling for measurement or monitoring.



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Description	Min	Тур	Max	Units
Frequency Range	7		12.4	GHz
Impedance		50		Ohms
Coupling	9	10	11	dB
Freq. Sensitivity		±0.4	±0.5	dB
Insertion Loss		0.2	0.3	dB
Directivity	17	19		dB
Main Line VSWR		1.25:1	1.3:1	
Input Power (CW)			50	Watts
Input Power (Peak)			3	kWatts



Features:

- 7 to 12.4 GHz
- 50 Watts CW Max Power
- 10 dB Coupling Value
- Directional SMA Coupler
- Meets Standards for Humidity, Shock, Vibration, Altitude

Applications:

- Communications Systems
- CDMA, GSM, LTE
- Amplifier Systems
- Amplifier Power Dividing
- Aviation/Aerospace
- Defense Applications
- Wireless Telecommunications

Mechanical Specifications

Size

 Length
 1 in [25.4 mm]

 Width/Dia.
 0.38 in [9.65 mm]

 Height
 0.5 in [12.7 mm]

Finish Gray
Housing Material and Plating Aluminum

Configuration

Input ConnectorSMA FemaleOutput ConnectorSMA FemaleCoupled ConnectorsSMA Female

Environmental Specifications Temperature

remperature

Operating Range -45 to +85 deg C Storage Range -55 to +125 deg C

Humidity 100% RH at 35°C, 95% RH at 40°C Shock 20G for 11msec half sine wave, 3 axis

both directions

Vibration 25g RMS (15 degrees 2KHz) endurance,

1 hour per axis

Altitude 30,000 ft. (Epoxy Sealed Controlled en-

vironment)

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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMA Directional Coupler 10 dB 7 GHz to 12.4 GHz Rated to 50 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 7 GHz to 12.4 GHz Rated to 50 Watts FMCP1105

URL: https://www.fairviewmicrowave.com/sma-directional-standard-10-db-12.4-ghz-fmcp1105-p.aspx

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