



# SMA Dual Directional Coupler 20 dB 2 GHz to 8 GHz Rated to 50 Watts

The FMCP1113 is an 20 dB RF coupler with 50 ohm SMA connectors operating from 2 to 8 GHz with a maximum input power of 50 Watts CW, and peak power handling of 2 kilowatt. The FMCP1113 has a coupling factor of 1 dB, insertion loss of (excluding coupled power) and a maximum VSWR of 1.2:1.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.



Description	Min	Тур	Max	Units
Frequency Range	2		8	GHz
Impedance		50		Ohms
Coupling	19	20	21	dB
Freq. Sensitivity		±0.5	±0.7	dB
Insertion Loss			0.5	dB
Directivity	20	22		dB
Main Line VSWR		1.18:1	1.2:1	
Input Power (CW)			50	Watts
Input Power (Peak)			2	kWatts



### **Features:**

- 2 to 8 GHz
- 50 Watts CW Max Power
- 20 dB Coupling Value
- Dual 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
 1.69 in [42.93 mm]

 Width/Dia.
 0.43 in [10.92 mm]

 Height
 0.94 in [23.88 mm]

Finish Gray
Housing Material and Plating Aluminum

Configuration

Input ConnectorSMA FemaleOutput ConnectorSMA FemaleCoupled ConnectorsSMA Female

## **Environmental Specifications**

**Temperature** 

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)

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:

SMA Dual Directional Coupler 20 dB 2 GHz to 8 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 Dual Directional Coupler 20 dB 2 GHz to 8 GHz Rated to 50 Watts FMCP1113

URL: https://www.fairviewmicrowave.com/sma-dual-directional-standard-20-db-8-ghz-fmcp1113-p.aspx

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