

# Directional 20 dB SMA Coupler From 2.6 GHz to 5.2 GHz Rated to 50 Watts



## Couplers Technical Data Sheet

PE2CP1109

#### **Features**

- 2.6 to 5.2 GHz
- 50 Watts CW Max Power
- 20 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

#### **Description**

The PE2CP1109 is an 20 dB RF coupler with 50 ohm SMA connectors operating from 2.6 to 5.2 GHz with a maximum input power of 50 Watts CW, and peak power handling of 3 kilowatt. The PE2CP1109 has a coupling factor of 1 dB, insertion loss of (excluding coupled power) and a maximum VSWR of 1.25:1. The coupler operates over a temperature range of -55° to 105° 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.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	2.6		5.2	GHz
Impedance		50		Ohms
Coupling	18.75	20	21.25	dB
Frequency Sensitivity			±0.75	dB
Insertion Loss			0.2	dB
Directivity	20			dB
Main Line VSWR			1.25:1	
Input Power (CW)			50	Watts
Input Power (Peak)			3	kWatts

#### **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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Directional 20 dB SMA Coupler From 2.6 GHz to 5.2 GHz Rated to 50 Watts PE2CP1109

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Configuration

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

#### **Environmental Specifications**

**Temperature** 

Operating Range -55 to +105 deg C Storage Range -55 to +125 deg C

Humidity

100% RH at 35°C, 95% RH at 40°C

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 environment)

Compliance Certifications (see product page for current document)

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

Notes:

Directional 20 dB SMA Coupler From 2.6 GHz to 5.2 GHz Rated to 50 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/directional-20-db-sma-coupler-5.2-ghz-pe2cp1109-p.aspx

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# PE2CP1109 CAD Drawing

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