

# Directional 20 dB SMA Coupler From 1 GHz to 2 GHz Rated to 50 Watts



# Couplers Technical Data Sheet

PE2CP1108

#### **Features**

- 1 to 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 PE2CP1108 is an 20 dB RF coupler with 50 ohm SMA connectors operating from 1 to 2 GHz with a maximum input power of 50 Watts CW, and peak power handling of 3 kilowatt. The PE2CP1108 has a coupling factor of 1 dB, insertion loss of (excluding coupled power) and a maximum VSWR of 1.1:1. 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	1		2	GHz
Impedance		50		Ohms
Coupling	18.75	20	21.25	dB
Frequency Sensitivity			±0.75	dB
Insertion Loss			0.15	dB
Directivity	25			dB
Main Line VSWR			1.1:1	
Input Power (CW)			50	Watts
Input Power (Peak)			3	kWatts

#### **Mechanical Specifications**

Size

 Length
 1.78 in [45.21 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 1 GHz to 2 GHz Rated to 50 Watts PE2CP1108

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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 1 GHz to 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-2-ghz-pe2cp1108-p.aspx

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PE2CP1108 CAD Drawing
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