

Directional 10 dB SMA Coupler From 2 GHz to 18 GHz Rated to 50 Watts



Couplers Technical Data Sheet

PE2CP1103

Features

- 2 to 18 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

Description

The PE2CP1103 is an 10 dB RF coupler with 50 ohm SMA connectors operating from 2 to 18 GHz with a maximum input power of 50 Watts CW, and peak power handling of 1 kilowatt. The PE2CP1103 has a coupling factor of 1 dB, insertion loss of (excluding coupled power) and a maximum VSWR of 1.5:1. 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		18	GHz
Impedance		50		Ohms
Coupling	9	10	11	dB
Frequency Sensitivity		±0.5	±0.7	dB
Insertion Loss		0.5	0.7	dB
Directivity	12	14		dB
Main Line VSWR		1.4:1	1.5:1	
Input Power (CW)			50	Watts
Input Power (Peak)			1	kWatts

Mechanical Specifications

Size

 Length
 1.69 in [42.93 mm]

 Width/Dia.
 0.43 in [10.92 mm]

 Height
 0.59 in [14.99 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 10 dB SMA Coupler From 2 GHz to 18 GHz Rated to 50 Watts PE2CP1103

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Configuration

Input Connector SMA Female
Output Connector SMA Female
Coupled Connectors SMA 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

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 10 dB SMA Coupler From 2 GHz to 18 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-10-db-sma-coupler-18-ghz-pe2cp1103-p.aspx

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PE2CP1103 CAD Drawing

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