



Couplers Technical Data Sheet PE2CP1104

Features

- 4 to 18 GHz
- · 50 Watts CW Max Power
- 10 dB Coupling Value

Applications

- Communications Systems
- CDMA, GSM, LTEAmplifier Systems
- Amplifier Power DividingAviation/Aerospace
- Defense Applications

Meets Standards for Humidity, Shock, Vibration, Alti-

· Directional SMA Coupler

tude

Wireless Telecommunications

Description

The PE2CP1104 is an 10 dB RF coupler with 50 ohm SMA connectors operating from 4 to 18 GHz with a maximum input power of 50 Watts CW, and peak power handling of 1 kilowatt. The PE2CP1104 has a coupling factor of 1 dB, insertion loss of (excluding coupled power) and a maximum VSWR of 1.35:1.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 | 4 | | 18 | GHz |
| Impedance | | 50 | | Ohms |
| Coupling | 9 | 10 | 11 | dB |
| Frequency Sensitivity | | | ±0.5 | dB |
| Insertion Loss | | | 0.5 | dB |
| Directivity | 12 | 15 | | dB |
| Main Line VSWR | | 1.25:1 | 1.35:1 | |
| Input Power (CW) | | | 50 | Watts |
| Input Power (Peak) | | | 1 | kWatts |

Mechanical Specifications

| Size | |
|------------|--------------------|
| Length | 1.36 in [34.54 mm] |
| Width/Dia. | 0.38 in [9.65 mm] |
| Height | 0.6 in [15.24 mm] |

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 4 GHz to 18 GHz Rated to 50 Watts PE2CP1104

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





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Weight

Finish Housing Material and Plating

Configuration Input Connector Output Connector Coupled Connectors

Environmental Specifications

Temperature Operating Range Storage Range

Humidity Shock Vibration Altitude 0.058 lbs [26.31 g] Gray Aluminum

SMA Female SMA Female SMA Female

-45 to +85 deg C -55 to +125 deg C

100% RH at 35°C, 95% RH at 40°C 20G for 11msec half sine wave, 3 axis both directions 25g RMS (15 degrees 2KHz) endurance, 1 hour per axis 30,000 ft. (Epoxy Sealed Controlled environment)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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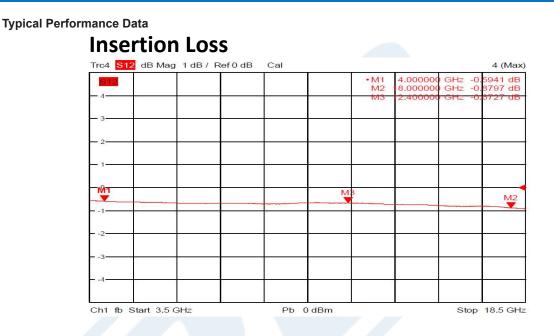
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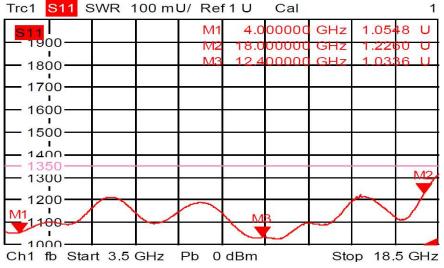


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Primary VSWR



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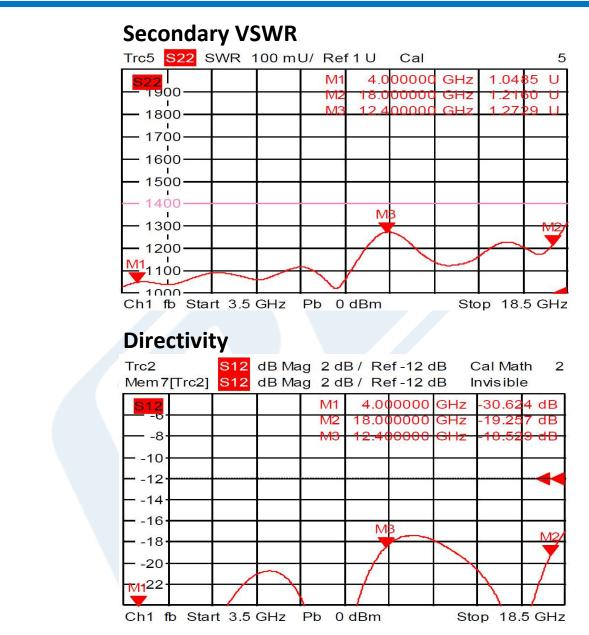
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Nominal Coupling

Trc4 S12 dB Mag 0.5 dB / Ref-9.9 dB Cal 4 dB Mag 0.5 dB / Ref-9.9 dB Mem6[Trc4] S12 **M1** 4.000000 GHz 975 dB M2 18.000000 GHz dB 1/3 8.4 8.9 94 M -9.9 -10.4-10.9114 1.9 fb Start 3.5 GHz Pb 0 dBm Stop 18.5 GHz Ch1

Directional 10 dB SMA Coupler From 4 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-pe2cp1104-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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PE2CP1104 CAD Drawing

Directional 10 dB SMA Coupler From 4 GHz to 18 GHz Rated to 50 Watts

