

# Priority Orders

#### PE2CP1106

#### **Features**

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

#### **Applications**

- · Communications Systems
- · CDMA, GSM, LTE
- · Amplifier Systems
- · Amplifier Power Dividing

- · Directional SMA Coupler
- · Meets Standards for Humidity, Shock, Vibration, Altitude
- · Aviation/Aerospace
- Defense Applications
- · Wireless Telecommunications

#### **Description**

The PE2CP1106 is an 10 dB RF coupler with 50 ohm SMA connectors operating from 7 to 18 GHz with a maximum input power of 50 Watts CW, and peak power handling of 1 kilowatt. The PE2CP1106 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        | Min | Тур    | Max    | Units  |
|--------------------|-----|--------|--------|--------|
| Frequency Range    | 7   |        | 18     | GHz    |
| Impedance          |     | 50     |        | Ohms   |
| Coupling           | 9   | 10     | 11     | dB     |
| Freq. Sensitivity  |     |        | ±0.75  | dB     |
| Insertion Loss     |     | 0.75   | 1      | dB     |
| Directivity        | 15  | 17     |        | dB     |
| Main Line VSWR     |     | 1.25:1 | 1.35:1 |        |
| Input Power (CW)   |     |        | 50     | Watts  |
| Input Power (Peak) |     |        | 1      | kWatts |

Aluminum

#### **Mechanical Specifications**

Size

 Length
 1 in [25.4 mm]

 Width/Dia.
 0.38 in [9.65 mm]

 Height
 0.5 in [12.7 mm]

 Weight
 0.0455 lbs [20.64 g]

 Finish
 Gray

Housing Material and Plating

Configuration

Input ConnectorSMA FemaleOutput ConnectorSMA FemaleCoupled ConnectorsSMA Female





#### PE2CP1106

#### **Environmental Specifications**

Temperature

Operating Range Storage Range

Humidity

Shock

Vibration

Altitude

-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**

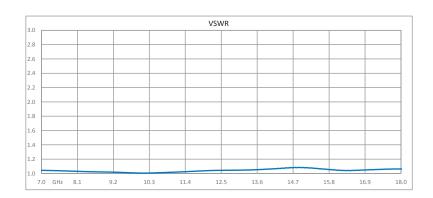
Notes:





### PE2CP1106

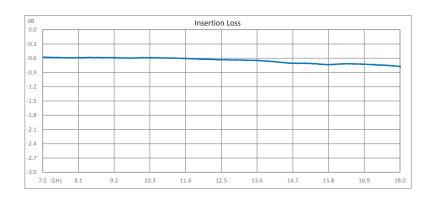
**Typical Performance Data** 





# To Total Output

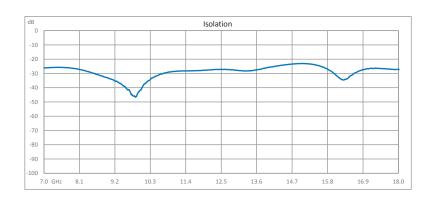
### PE2CP1106





# Ter Johns Output

### PE2CP1106







#### PE2CP1106

Directional 10 dB SMA Coupler From 7 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.

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 7 GHz to 18 GHz Rated to 50 Watts PE2CP1106

URL: https://www.pasternack.com/directional-10-db-sma-coupler-18-ghz-pe2cp1106-p.aspx

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

