



## 3 Way SMA Power Divider from 2 GHz to 8 GHz Rated at 30 Watts

### Power Dividers Technical Data Sheet

PE20DV001

#### Features

- 3-Way Power Divider
- Reactive Design
- 2 GHz to 8 GHz Frequency Range
- Max Power 30W (CW)
- Isolation > 20 dB

#### Applications

- Test and Measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM

#### Description

Pasternack carries a wide selection of power dividers to fit your needs. These components are essential in many systems, allowing the combination of multiple signals or splitting of a single signal into multiple signals with equal magnitude and phase. Pasternack's resistive and reactive power dividers come with excellent performance featuring minimal loss, high isolation and low VSWR. They are available in both narrow and broad bandwidths with a variety of connector types. The PE20DV001 is a 2 way reactive power divider that operates from 2 to 8 GHz and can handle up to 30 Watts (CW). This SMA power divider offers 20 dB min isolation and 1.4:1 max VSWR. The package interface uses SMA inputs on all of the ports.

#### Electrical Specifications

Design: Reactive  
 Number of Output Ports: 3

| Description       | Minimum | Typical | Maximum | Units   |
|-------------------|---------|---------|---------|---------|
| Frequency Range   | 2       |         | 8       | GHz     |
| Impedance         |         | 50      |         | Ohms    |
| Input VSWR        |         |         | 1.4:1   |         |
| Output VSWR       |         |         | 1.4:1   |         |
| Insertion Loss    |         |         | 6.1     | dB      |
| Isolation         | 18      |         |         | dB      |
| Amplitude Balance |         |         | 0.8     | dB      |
| Phase Balance     |         |         | 5       | Degrees |
| Input Power (CW)  |         |         | 30      | Watts   |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3 Way SMA Power Divider from 2 GHz to 8 GHz Rated at 30 Watts PE20DV001](#)



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#### Mechanical Specifications

##### Size

|        |                   |
|--------|-------------------|
| Length | 2.63 in [66.8 mm] |
| Width  | 1.5 in [38.1 mm]  |
| Height | 0.4 in [10.16 mm] |

|                              |                |
|------------------------------|----------------|
| Housing Material and Plating | Aluminum, Gray |
|------------------------------|----------------|

##### Configuration

|                   |            |
|-------------------|------------|
| Input Connector   | SMA Female |
| Output Connectors | SMA Female |

#### Environmental Specifications

##### Temperature

|                 |                  |
|-----------------|------------------|
| Operating Range | -55 to +85 deg C |
|-----------------|------------------|

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

3 Way SMA Power Divider from 2 GHz to 8 GHz Rated at 30 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.

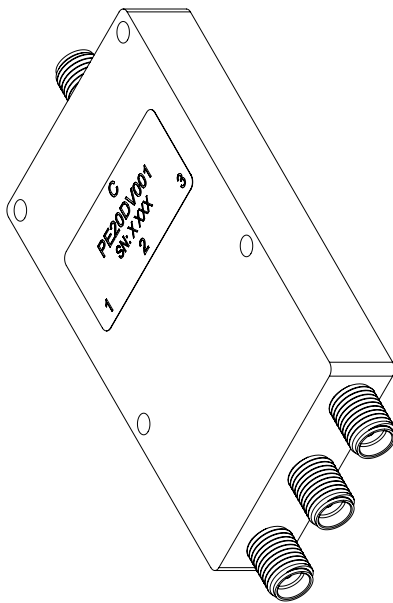
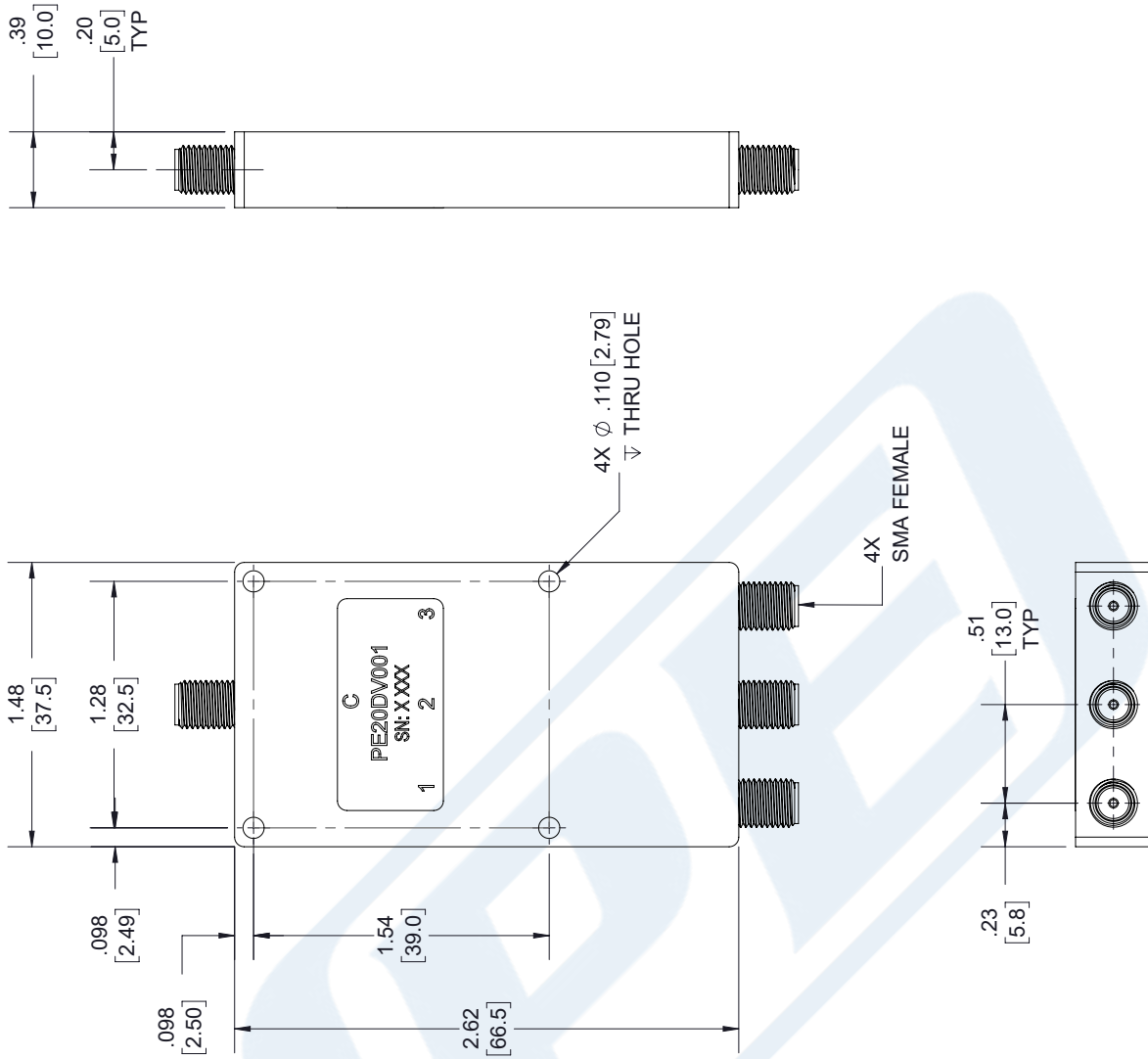
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URL: <https://www.pasternack.com/3-way-sma-power-divider-8-ghz-pe20dv001-p.aspx>

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.

# PE20DV001 CAD Drawing

3 Way SMA Power Divider from 2 GHz to 8 GHz Rated at 30 Watts



| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.2   |
| .XX                 | ±0.01  |
| .XXX                | ±0.005 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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DWG TITLE  
**PE20DV001**

CAGE CODE **53919**

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES [mm].

CAD FILE 07/19/18 SCALE N/A SIZE A 7361