



Biased Detector With 50 Ohm SMA Male to SMA Female  
Video Out Operating From 8 GHz to 18 GHz

**TECHNICAL DATA SHEET**

**PE8008**

**Biased Detector With 50 Ohm SMA Male to SMA Female Video Out Operating From 8 GHz to 18 GHz**

**Configuration**

|                        |            |
|------------------------|------------|
| Bias Type              | Biased     |
| Detector Polarity      | Negative   |
| Body Style             | Straight   |
| RF Input Connector     | SMA Male   |
| RF Input Impedance     | 50 Ohms    |
| Video Output Connector | SMA Female |

**Electrical Specifications**

|                               |         |
|-------------------------------|---------|
| Frequency Range, GHz          | 8 to 18 |
| Voltage Sensitivity, mV/mW    | 1,600   |
| Tangential Signal Sensitivity | -52     |
| Flatness, dB                  | 0.7     |
| Maximum Input Power, Watts    | 23      |
| Video Capacitance, pF         | 10      |

**Mechanical Specifications**

**Temperature**

|                        |             |
|------------------------|-------------|
| Operating Range, deg C | -55 to +125 |
| Storage Range, deg C   | -65 to +150 |

**RF Input**

|                |          |
|----------------|----------|
| Type           | SMA Male |
| Hex Size, Inch | 5/16     |

**Video Output**

|      |            |
|------|------------|
| Type | SMA Female |
|------|------------|

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

|                |     |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

**Plotted and Other Data**

|        |                            |
|--------|----------------------------|
| Notes: | Values at 25 °C, sea level |
|--------|----------------------------|

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Biased Detector With 50 Ohm SMA Male to SMA Female Video Out Operating From 8 GHz to 18 GHz PE8008](#)

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.

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Biased Detector With 50 Ohm SMA Male to SMA Female Video Out Operating From 8 GHz to 18 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

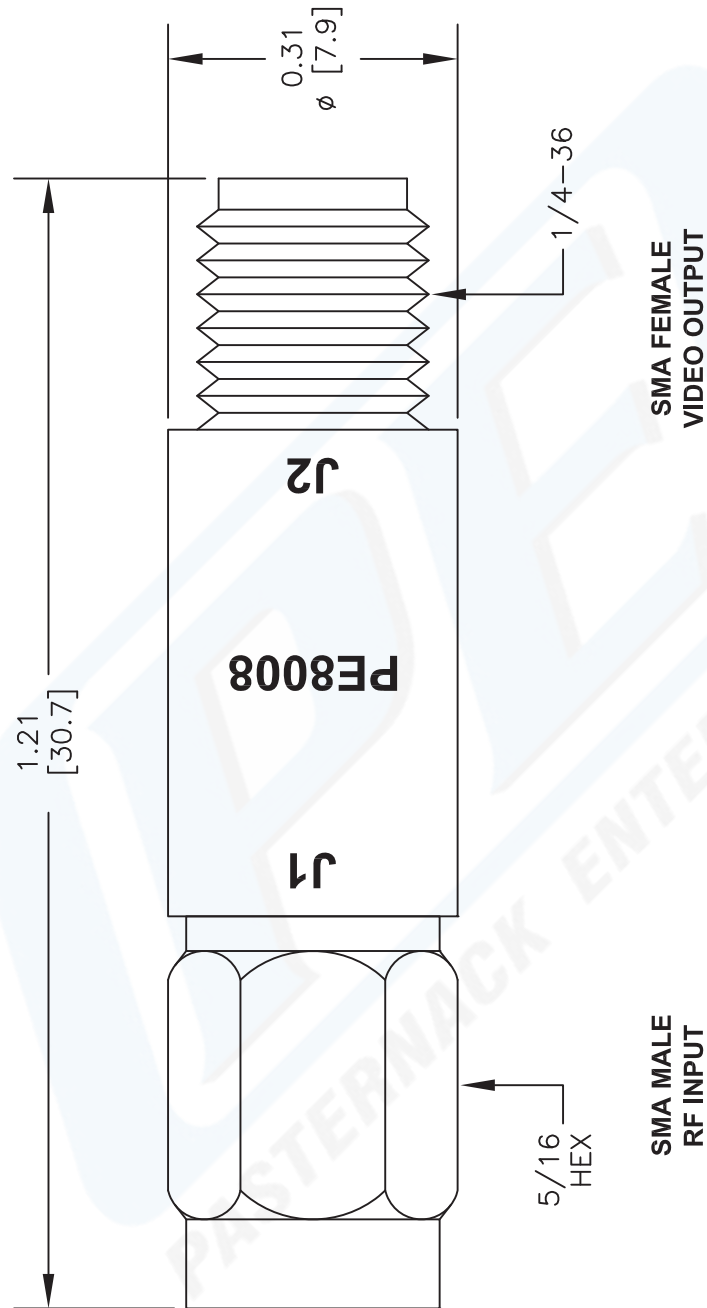
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Biased Detector With 50 Ohm SMA Male to SMA Female Video Out Operating From 8 GHz to 18 GHz PE8008](http://www.pasternack.com/negative-biased-schottky-diode-detector-80-180-ghz-pe8008-p.aspx)

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# PE8008 CAD Drawing

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## 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].

DWG TITLE

**PE8008**

FSCM NO. 53919



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3