



Biased Detector With 50 Ohm SMA Male to SMA  
 Female Video Out Operating From 2 GHz to 4 GHz

TECHNICAL DATA SHEET

PE8003

**Biased Detector With 50 Ohm SMA Male to SMA Female Video Out Operating From 2 GHz to 4 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	2 to 4
Voltage Sensitivity, mV/mW	2,000
Tangential Signal Sensitivity	-52
Flatness, dB	0.5
Maximum Input Power, Watts	23
Video Capacitance, pF	20

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

RoHS Compliant	Yes
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**Plotted and Other Data**

Notes:	Values at 25 °C, sea level
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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 2 GHz to 4 GHz PE8003](#)

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 2 GHz to 4 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.

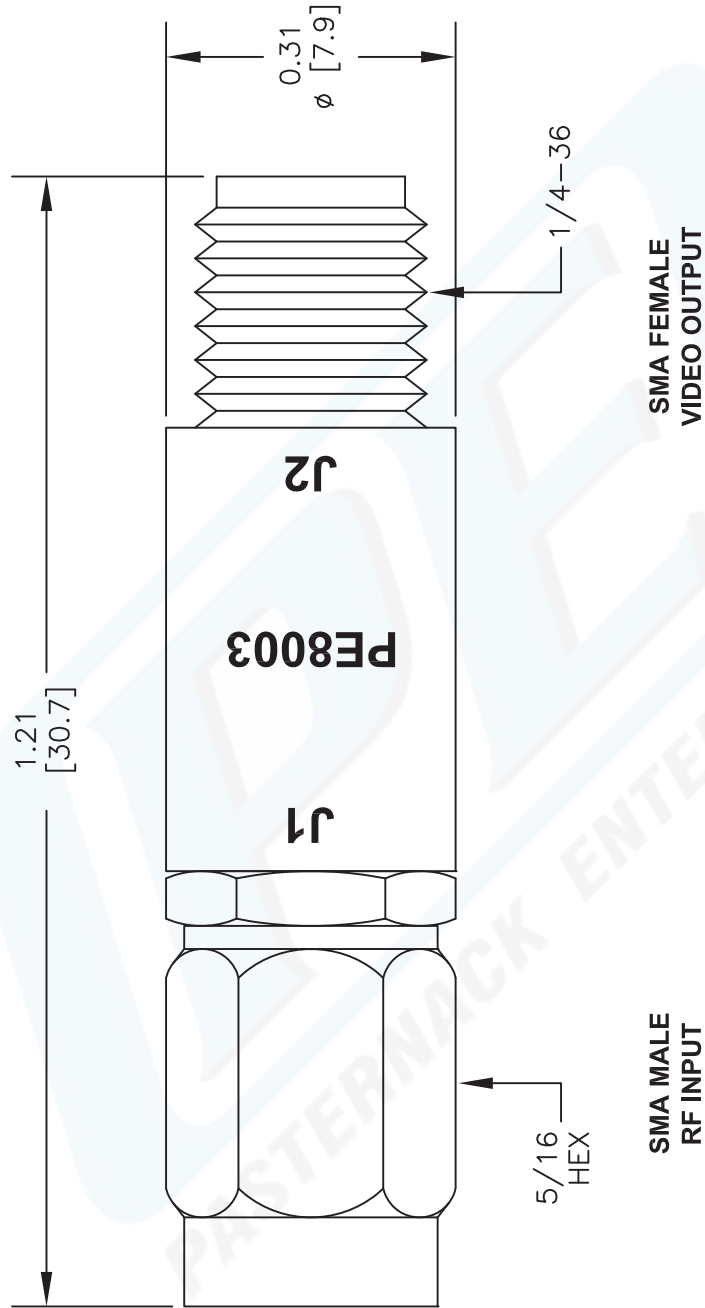
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Biased Detector With 50 Ohm SMA Male to SMA Female Video Out Operating From 2 GHz to 4 GHz PE8003](http://www.pasternack.com/negative-biased-schottky-diode-detector-20-40-ghz-pe8003-p.aspx)

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# PE8003 CAD Drawing

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Video Out Operating From 2 GHz to 4 GHz



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  
**PE8003**

FSCM NO. 53919

CAD FILE 020413

SCALE N/A

SIZE A

2233

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