



## Zero Biased W Band Waveguide Detector, WR-10, Negative Video Out, 75 GHz to 100 GHz, UG-387/U Round Cover Flange

### TECHNICAL DATA SHEET

PE80T3000

The PE80T3000 is a W Band Waveguide Detector. The Detector operates in the 75 GHz to 100 GHz Frequency Range and has a Negative Output with a Sensitivity of -500 mV/mW Minimum and -900 mV/mW Typical. The unit operates over a 0°C to +50°C Temperature Range and has a Maximum Input Power Rating of +20 dBm. The Detector has a WR-10 Waveguide with UG-387/U Flange as the RF connector and the DC Output Port uses an SMA Female Connector.

#### Features

- Frequency: 75 GHz to 100 GHz
- Sensitivity: -500 mV/mW Minimum; -900 mV/mW Typical
- Maximum Power Input 20 dBm
- RF Connector WR-10 Waveguide with UG 387/U Flange

#### Applications

- Test Lab
- Military Communications
- Commercial Communications

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	75		100	GHz
Voltage Sensitivity	-500	-900		mV/mW
Input Power			+20	dBm

#### Mechanical Specifications

##### Temperature

Operating Range 0 to +50 deg C

##### Size

Length 1.24 in [31.5 mm]  
Width 1 in [25.4 mm]  
Height 0.75 in [19.05 mm]  
Weight 0.042 lbs [19.05 g]

Waveguide Size WR-10  
Flange Destination UG-387/U  
Flange Type Round Cover  
DC Connector SMA Female

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

#### Plotted and Other Data

Notes:

- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Zero Biased W Band Waveguide Detector, WR-10, Negative Video Out, 75 GHz to 100 GHz, UG-387/U Round Cover Flange PE80T3000](#)

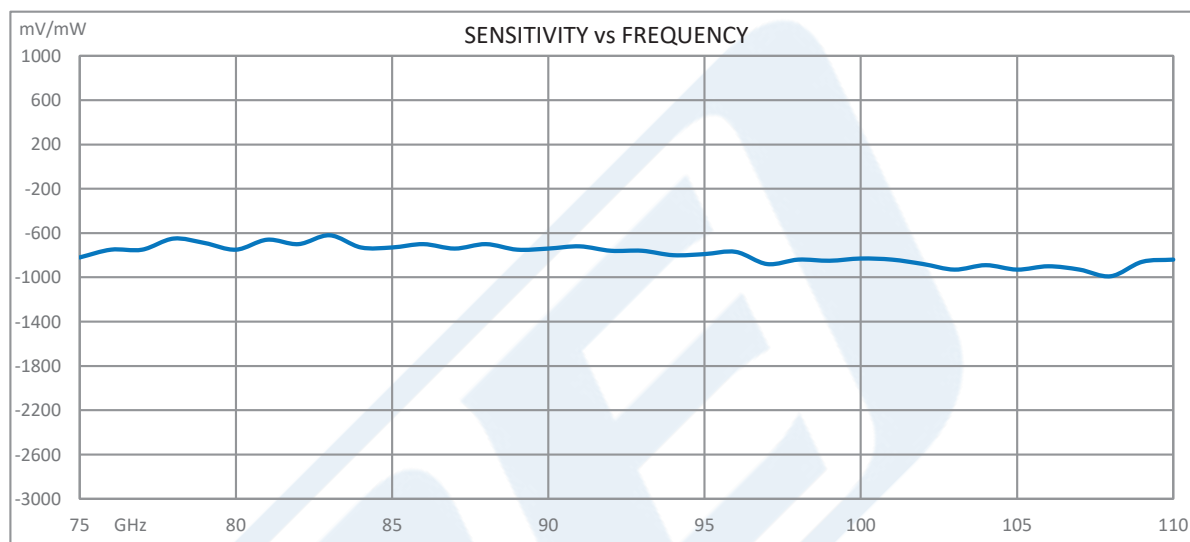


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Video Out, 75 GHz to 100 GHz, UG-387/U Round Cover Flange

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Typical Performance Data



Zero Biased W Band Waveguide Detector, WR-10, Negative Video Out, 75 GHz to 100 GHz, UG-387/U Round Cover Flange 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.

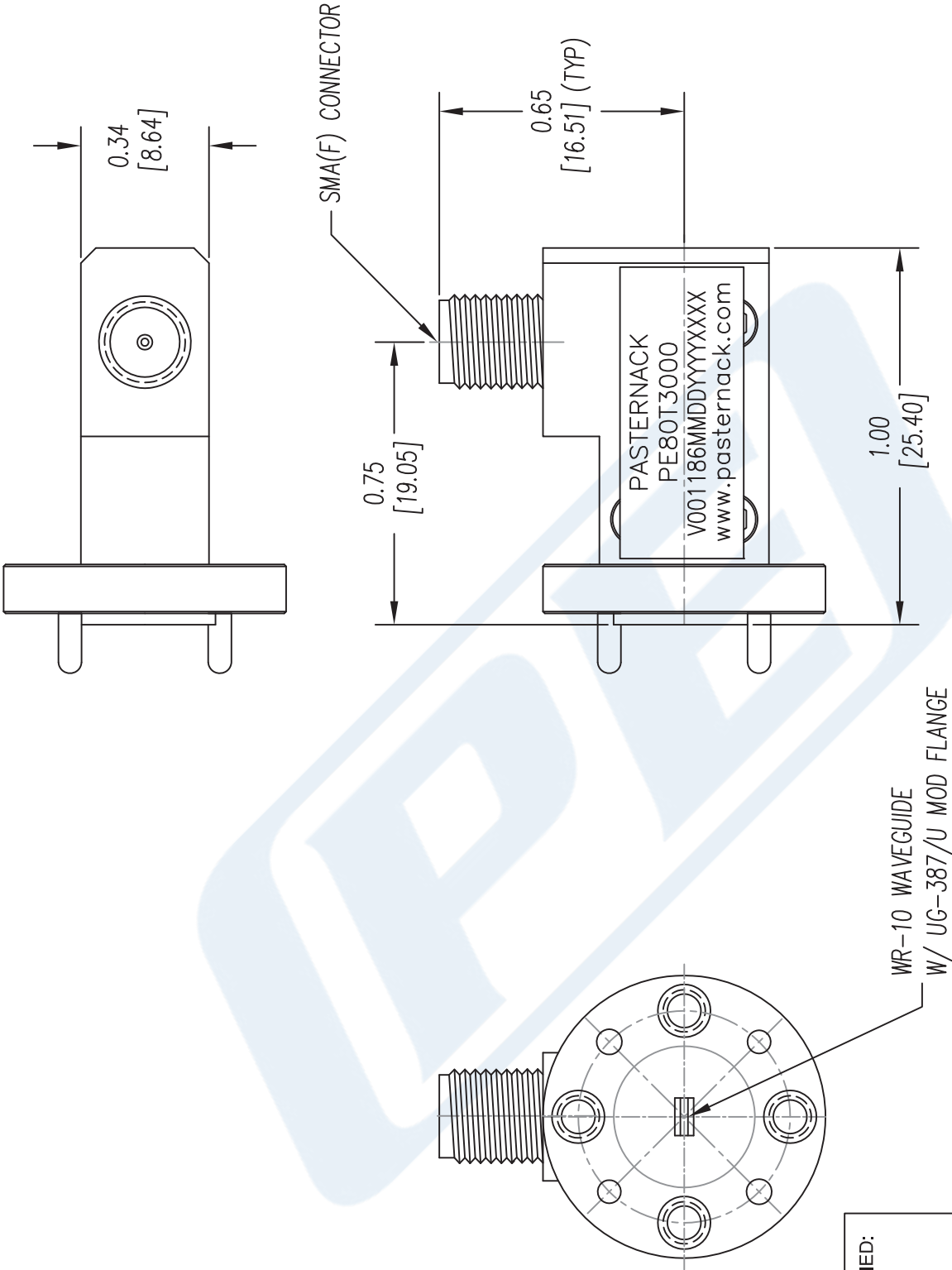
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PE80T3000 CAD Drawing

Zero Biased W Band Waveguide Detector, WR-10, Negative Video  
Out, 75 GHz to 100 GHz, UG-387/U Round Cover Flange



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  
**PE80T3000**

FSCM NO. 53919

2233

SIZE A

SCALE N/A

CAD FILE 071715

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\* THESE DIMENSIONS AND TOLERANCES  
SUPERSEDE NOTE #1 ON TITLE BLOCK.