



Zero Biased Ka Band Waveguide Detector, WR-28,
Negative Video Out, 26.5 GHz to 40 GHz, UG-599/U

TECHNICAL DATA SHEET

PE80T3005

The PE80T3005 is an Ka Band Waveguide Detector. The Detector operates in the 26.5 GHz to 40 GHz Frequency Range and has a Negative Output with a Sensitivity of -1000 mV/mW Minimum. 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-28 Waveguide with UG-599/U Flange as the RF connector and the DC Output Port uses an SMA Female Connector.

Features

- Frequency: 26.5 GHz to 40 GHz
- Sensitivity: -1000 mV/mW Minimum
- Output: Negative
- Maximum Power Input 20 dBm
- RF Connector WR-28 Waveguide with UG 599/U Flange
- DC Output: SMA Female Connector

Applications

- Test Lab
- Military Communications
- Commercial Communications

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---------------------|---------|---------|---------|-------|
| Frequency Range | 26.5 | | 40 | GHz |
| Voltage Sensitivity | -1,000 | | | 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 0.0625 lbs [28.35 g]
RF Connector WR-28 Waveguide with UG-599/U Flange
DC Connector SMA Female

Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant

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: [Zero Biased Ka Band Waveguide Detector, WR-28, Negative Video Out, 26.5 GHz to 40 GHz, UG-599/U PE80T3005](#)

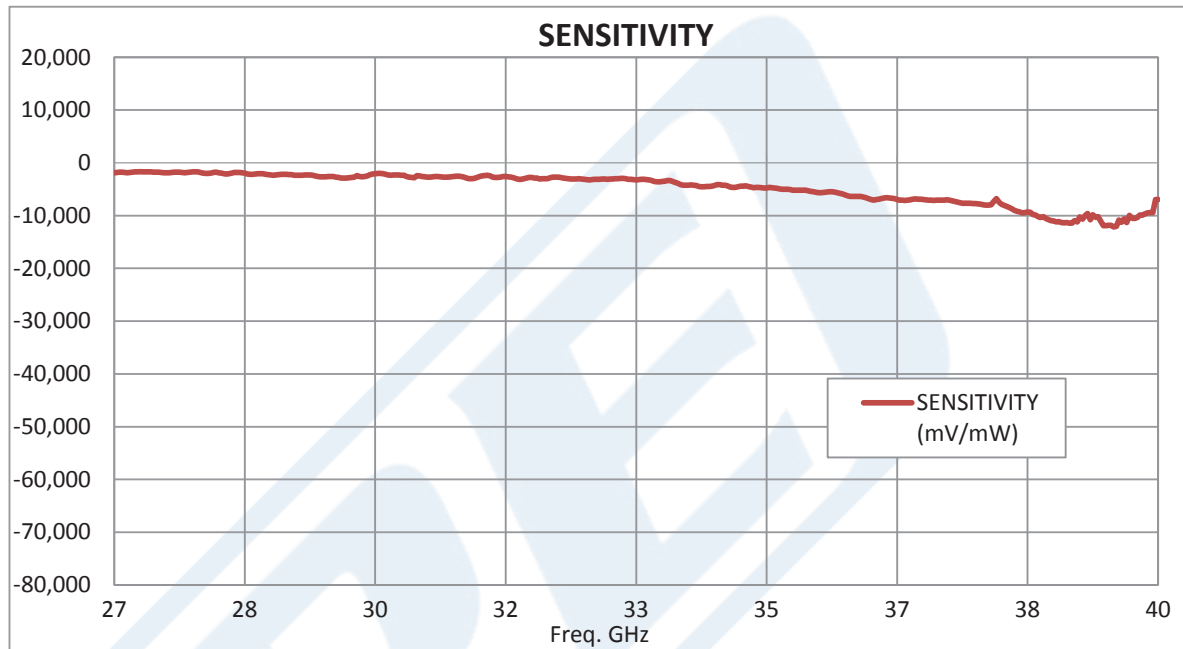


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Typical Performance Data



Zero Biased Ka Band Waveguide Detector, WR-28, Negative Video Out, 26.5 GHz to 40 GHz, UG-599/U from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

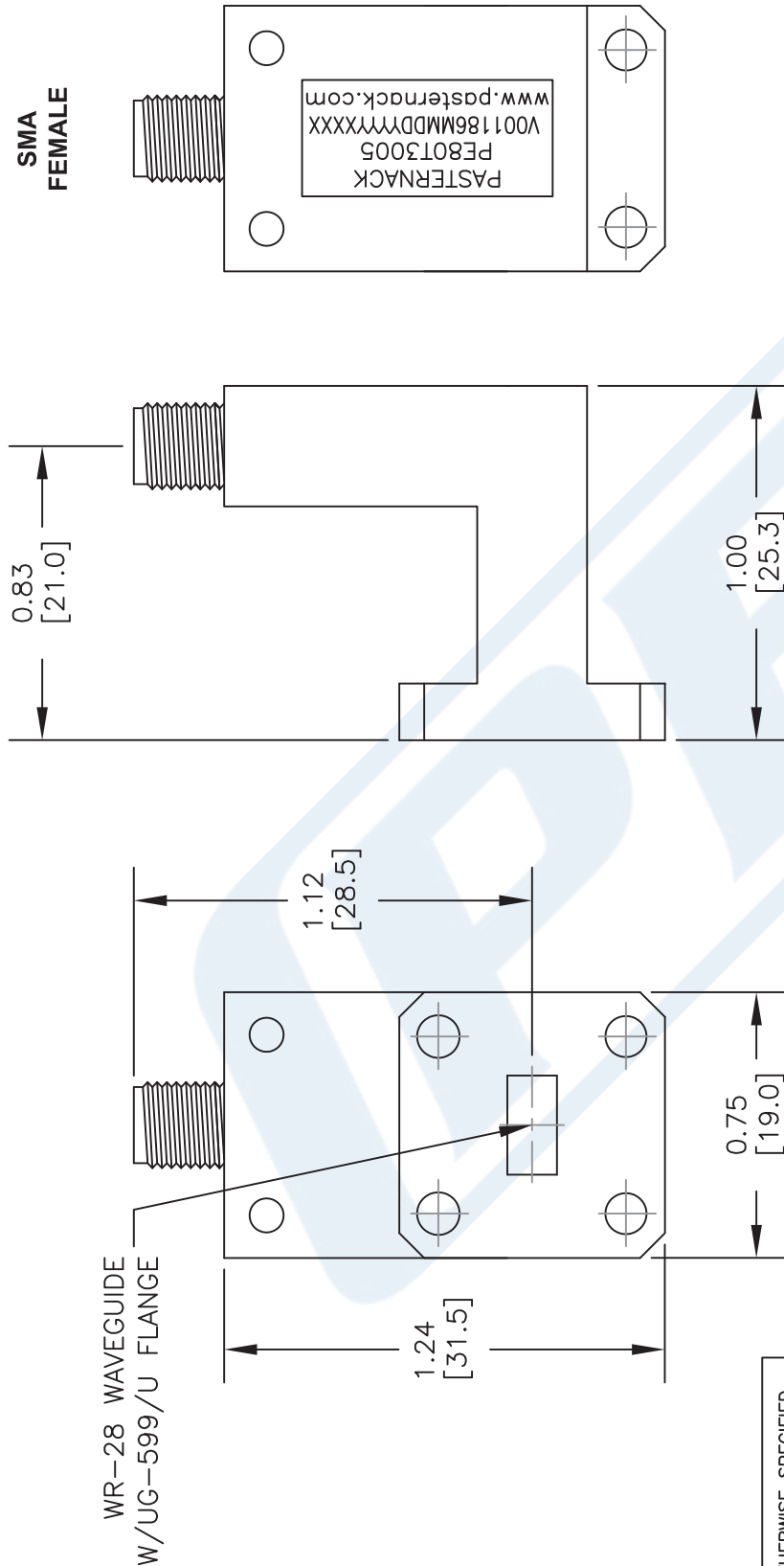
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PE80T3005 CAD Drawing

Zero Biased Ka Band Waveguide Detector, WR-28, Negative
Video Out, 26.5 GHz to 40 GHz, UG-599/U



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:

DECIMALS ANGLES FRACTIONS
.XX ±.01 ± 1/2° ± 1/64
.XXX ±.005

| HOLE DIAMETER | TOLERANCE |
|----------------|--------------|
| .0135 TO .125 | +.004/- .001 |
| .126 TO .250 | +.005/- .001 |
| .251 TO .500 | +.006/- .001 |
| .501 TO .750 | +.008/- .001 |
| .751 TO 1.000 | +.010/- .001 |
| 1.001 TO 2.000 | +.012/- .001 |

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

PE PASTERNAK
THE ENGINEER'S RF SOURCE

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DWG TITLE

PE80T3005

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].

FSCM NO. 53919

CAD FILE 040615

SCALE N/A

SIZE A

2233