



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

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 0.0804 lbs [36.47 g]

Waveguide Size WR-28
Flange Destination UG-599/U
Flange Type Square 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 Ka Band Waveguide Detector, WR-28, Negative Video Out, 26.5 GHz to 40 GHz, UG-599/U Square Cover Flange PE80T3005](#)



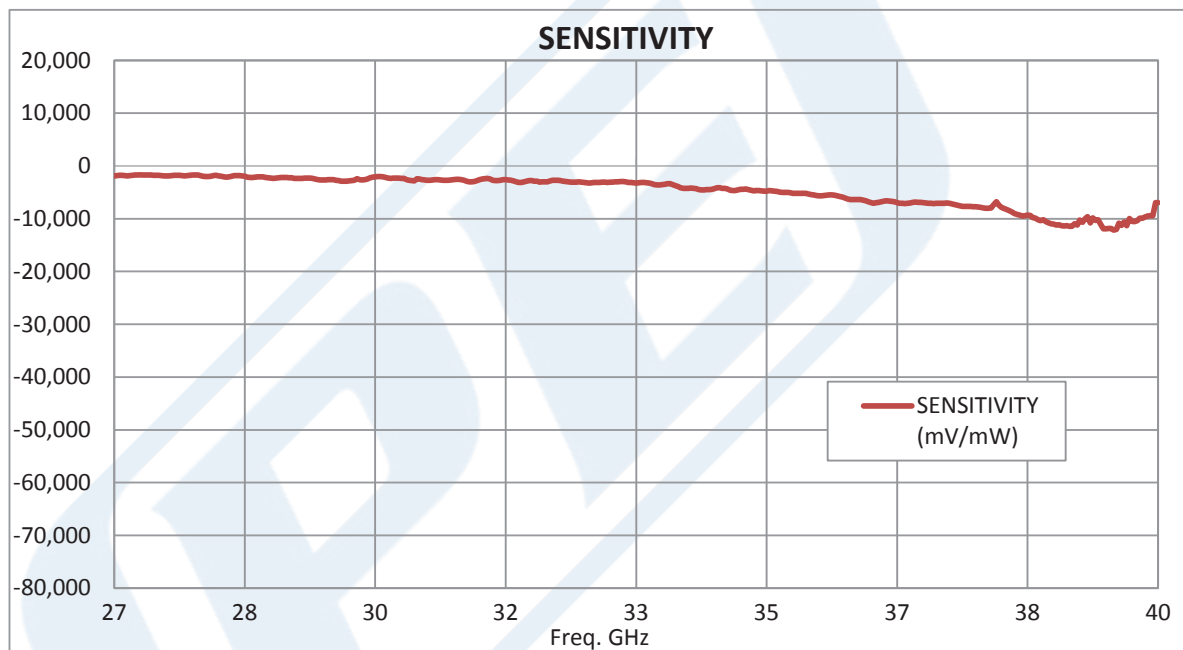
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Typical Performance Data



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

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 Square Cover Flange PE80T3005](https://www.pasternack.com/zero-biased-ka-band-waveguide-detector-wr-28-negative-26.5-40-ghz-pe80t3005-p.aspx)

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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.

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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

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PE80T3005

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