

## Zero Biased Waveguide Detector WR-12 to SMA Female and Negative Video Out From 60 GHz to 90 GHz E Band, UG-387/U Round Cover Flange

FMMT3001 is an E Band Waveguide Detector. The Detector operates in the 60 GHz to 90 GHz Frequency Range and has a Negative Output with a Sensitivity of -600 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-12 Waveguide with UG 387/U Flange as the RF connector and the DC Output Port uses an SMA Female Connector.

### Electrical Specifications

Description	Min	Typ	Max	Unit
Frequency Range	60		90	GHz
Voltage Sensitivity	-600			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 0.07 lbs [31.75 g]

Waveguide Size WR-12  
Flange Destination UG-387/U  
Flange Type Flange Type  
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.



### Features:

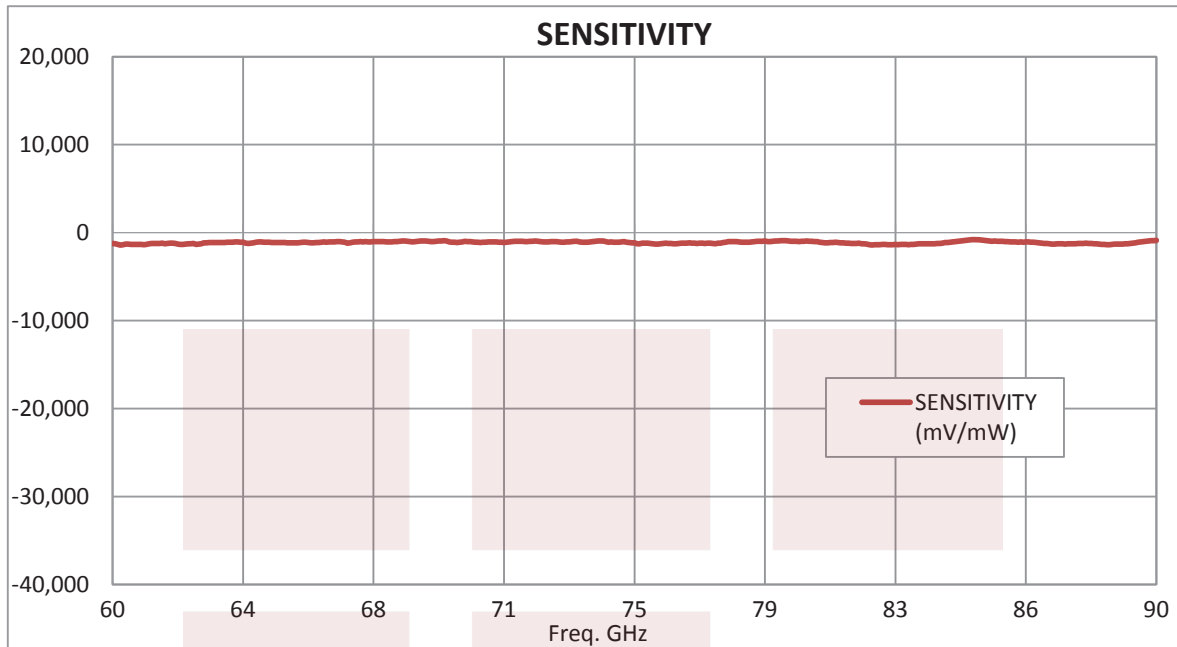
- Frequency: 60 GHz to 90 GHz
- Sensitivity: -600 mV/mW Minimum; -900 mV/mW Typical
- Output: Negative
- Maximum Power Input 20 dBm
- RF Connector WR-12 Waveguide with UG 387/U Flange
- DC Output: SMA Female Connector

### Applications:

- Test Lab
- Military Communications
- Commercial Communications

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**Typical Performance Data**



Zero Biased Waveguide Detector WR-12 to SMA Female and Negative Video Out From 60 GHz to 90 GHz E Band, UG-387/U Round Cover Flange from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

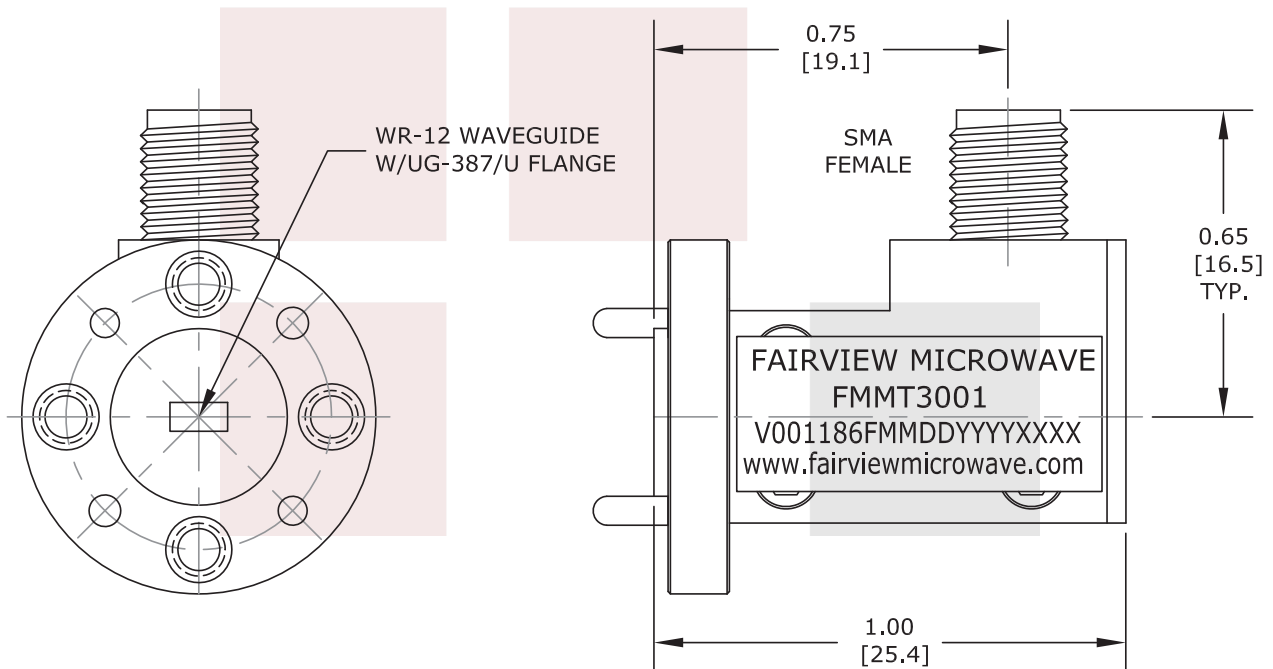
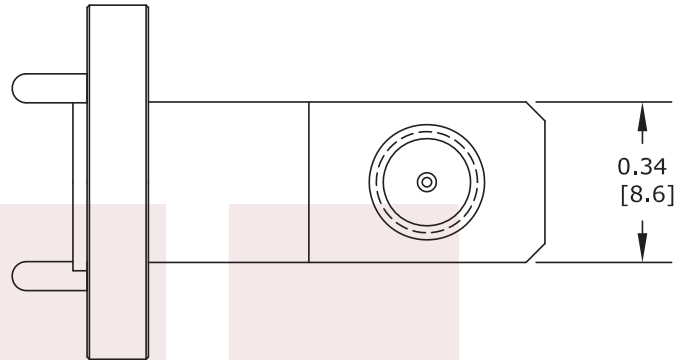
For additional information on this product, please click the following link: [Zero Biased Waveguide Detector WR-12 to SMA Female and Negative Video Out From 60 GHz to 90 GHz E Band, UG-387/U Round Cover Flange FMMT3001](https://www.fairviewmicrowave.com/zero-biased-waveguide-detector-wr-12-sma-female-negative-60-90-ghz-fm-mt3001-p.aspx)

URL: <https://www.fairviewmicrowave.com/zero-biased-waveguide-detector-wr-12-sma-female-negative-60-90-ghz-fm-mt3001-p.aspx>

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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:	
DECIMALS	ANGLES
.XX ± .01	± 1/2° ± 1/64
.XXX ± .005	
FRACTIONS	
<u>HOLE DIAMETER</u>	<u>TOLERANCE</u>
.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.



<b>FAIRVIEW MICROWAVE INC.</b> ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		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].			
TITLE Zero Biased Waveguide Detector WR-12 to SMA Female and Negative Video Out From 60 GHz to 90 GHz E Band, UG-387/U Round Cover Flange		DWG NO FMMT3001		CAGE CODE 3FKR5	
CAD FILE	040615	SHEET	SCALE	N/A	SIZE A 2233