

# DET-10PP00WG

## Detector WR-10 (W-Band)

### DEVICE OVERVIEW

#### General Description

Detector WR-10 Marki Microwave W-Band Detectors, operating from 75-110 GHz, are built with high quality materials and by experienced high precision assemblers. These detectors utilize a very sensitive Low-Barrier Schottky Diode.



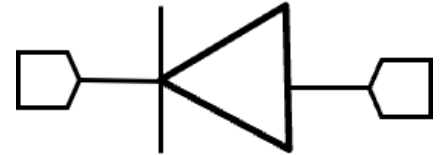
#### Features

- Greater than 800mV/mW sensitivity
- Less than 3dB variation over band
- Compact and lightweight

#### Applications

- Radar
- Frequency Counters
- Power Monitoring
- Communication Systems

#### Functional Block Diagram



#### Part Ordering Options

Part Number	Description	Package	Green Status	Product Lifecycle	Export Classification
DET-10PP00WG	Detector WR-10 (W-Band)	WR-10	REACH RoHS	Released	EAR99

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**Revision History**

Revision Code	Revision Date	Comment
-	2024-05-01	Initial Release

## Specifications

### Absolute Maximum Ratings

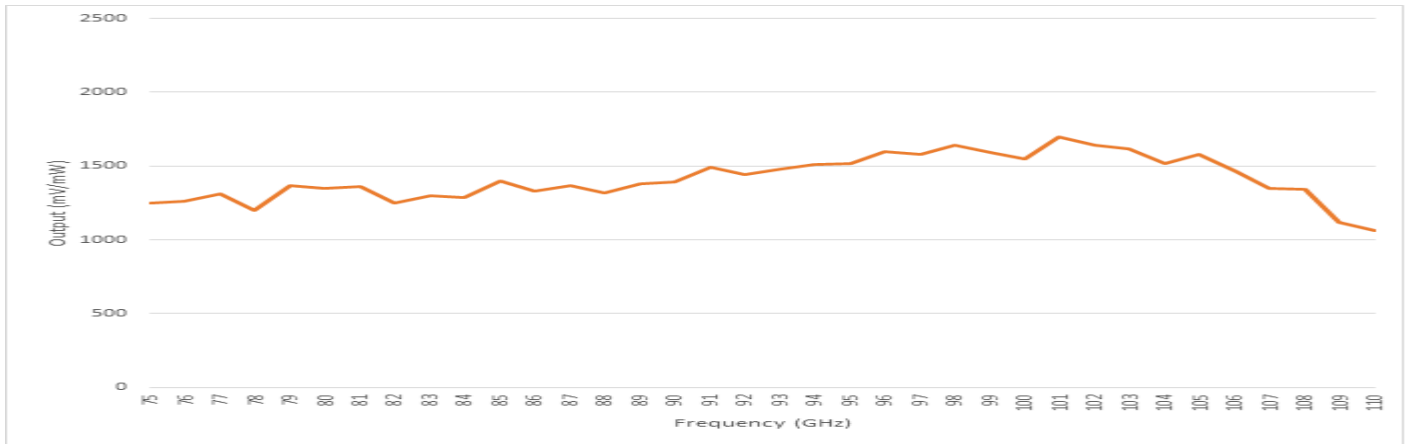
Permanent damage may occur if any of these limits are exceeded.

Parameter	Maximum Rating	Unit
Maximum Operating Temperature	70	°C
Maximum Storage Temperature	100	°C
Minimum Operating Temperature	-20	°C
Minimum Storage Temperature	-55	°C
RF Input Power	17	dBm

**Electrical Specifications**

Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Amplitude Flatness	-	75	110	-	-	1.5	dB
Input Power for Linear Operation	-	75	110	-35	-	-10	dBm
Operating Input Power Range	-	75	110	-40	-	15	dBm
Sensitivity	-	75	110	800	-	-	mV/mW

**Typical Performance**





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