

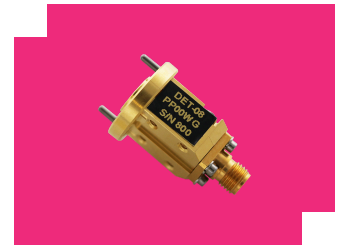
DET-08PP00WG

Detector WR-8 (F-Band)

DEVICE OVERVIEW

General Description

Detector WR-8 Marki Microwave F-Band Detectors, operating from 90-140 GHz, are built with high quality materials and by experienced high precision assemblers. These detectors utilize a very sensitive Low- Barrier Schottky Diode.



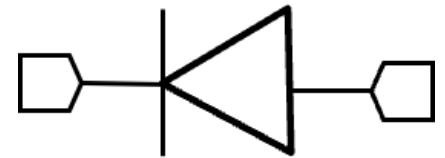
Features

- Greater than 700mV/mW sensitivity
- Less than 3.4dB 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-08PP00WG	Detector WR-8 (F-Band)	WR-08	REACH RoHS	Released	EAR99

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Revision History

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

Specifications

Absolute Maximum Ratings

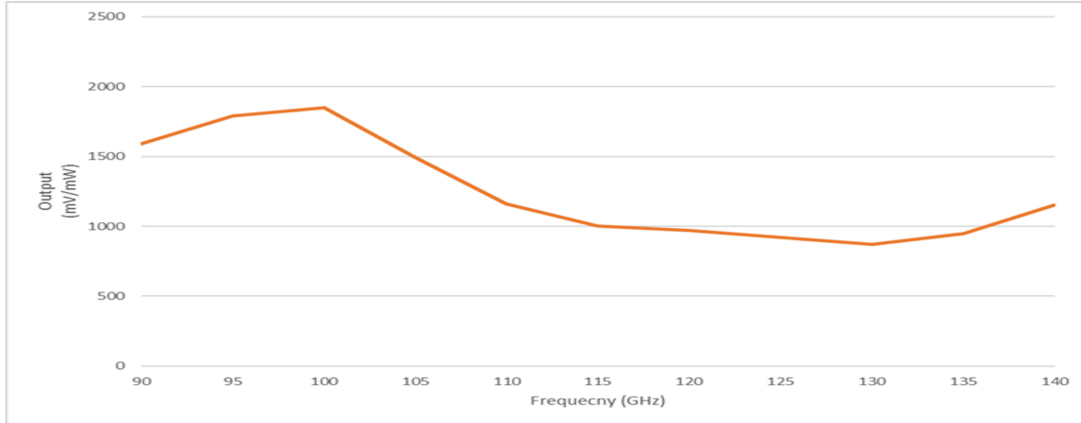
Permanent damage may occur if any of these limits are exceeded.

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	-	90	140	-	-	1.7	dB
Input Power for Linear Operation	-	90	140	-35	-	-10	dBm
Operating Input Power Range	-	90	140	-40	-	15	dBm
Sensitivity	-	90	140	700	-	-	mV/mW

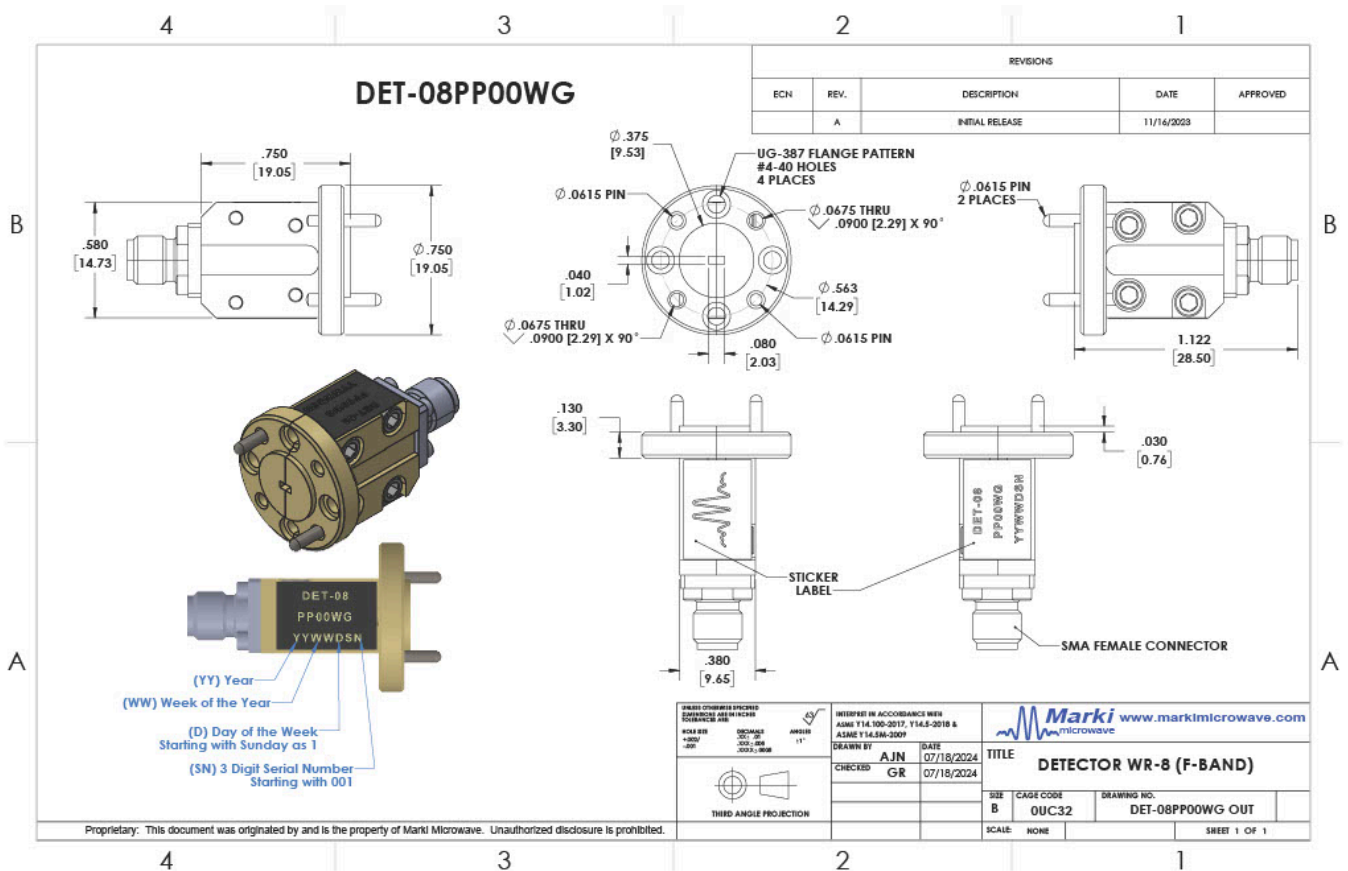
Typical Performance



Mechanical Data

Outline Drawing

Download : [Outline 2D Drawing](#) | [Outline 3D STP](#)



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