

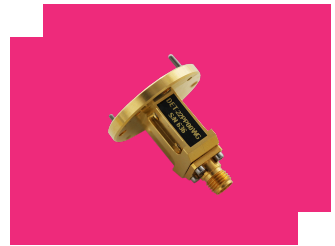
DET-22PP00WG

Detector WR-22 (Q-Band)

DEVICE OVERVIEW

General Description

Detector WR-22 Marki Microwave Q-Band Detectors, operating from 33-50 GHz, are built with high quality materials and by experienced high precision assemblers. These detectors utilize a very sensitive Low-Barrier Schottky Diode.



[Download s-parameters here](#)

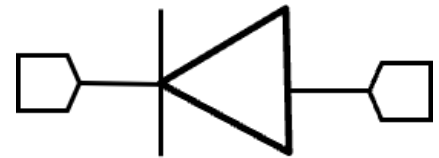
Features

- Greater than 1500mV/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-22PP00WG	Detector WR-22 (Q-Band)	WR-22	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.

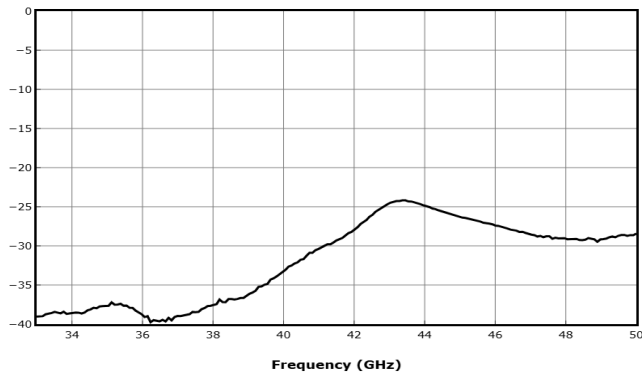
Parameter	Maximum Rating	Unit
Maximum Operating Temperature	70	°C
Maximum Storage Temperature	100	°C
Minimum Operating Temperature	-20	°C
Minimum Storage Temperature	-55	°C
RF Input Power	17	dBm

Electrical Specifications

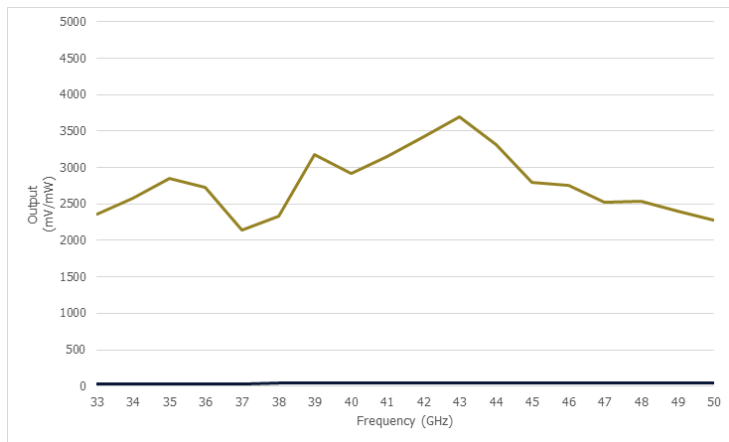
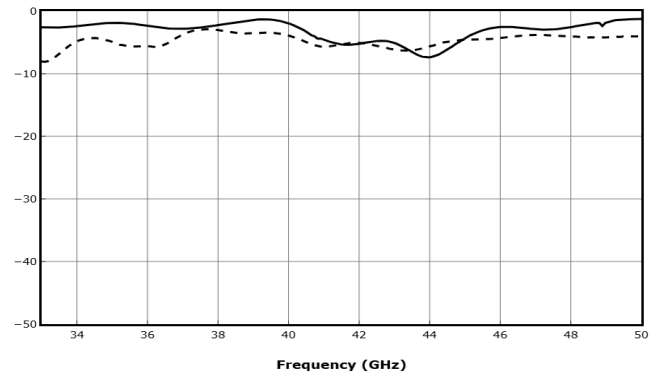
Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Amplitude Flatness	-	33	50	-	-	1.5	dB
Input Power for Linear Operation	-	33	50	-35	-	-10	dBm
Operating Input Power Range	-	33	50	-40	-	15	dBm
Sensitivity	-	33	50	1500	-	-	mV/mW

Typical Performance

Insertion Loss (dB)



Return Loss (dB)



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