

## 75-110GHz W Band Power Detector



### Description:

AT-PD-75110-N1 is a W band WR-10 waveguide power detector that covers frequency range from 75-110GHz.

The detector is using GaAs process technology with single +5V bias, and intended for small signal detection. The sensitivity can be up to 3000V/W at W band. A faraday isolator can be used to improve input port VSWR.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

### Feature

- ✓ Frequency: 75-110GHz
- ✓ High Sensitivity
- ✓ Max Linear -5dBm
- ✓ Envelope Detector.

### Application

- ✓ W band Imaging
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

### Electronical Specifications:

Parameter	Min	Typical	Max
Frequency Range	75GHz		110GHz
Sensitivity		3000V/W	
Max Linear RF Input Power		-5dBm	
Input Power Range		-20 to -5dBm	
Output Voltage		0.8-1.9V	
Output Volage Polarity		Negative	
Drain Voltage		+5V/2mA	
Envelope Bandwidth (Note)		Around 1GHz	
Power Handling			0dBm
Spec Temp		25C	

Note: Estimated, NO TEST. Envelope bandwidth no test due to the test limitation.





# AT-PD-75110-N1

Power Detector, 75-110GHz, Negative Slope

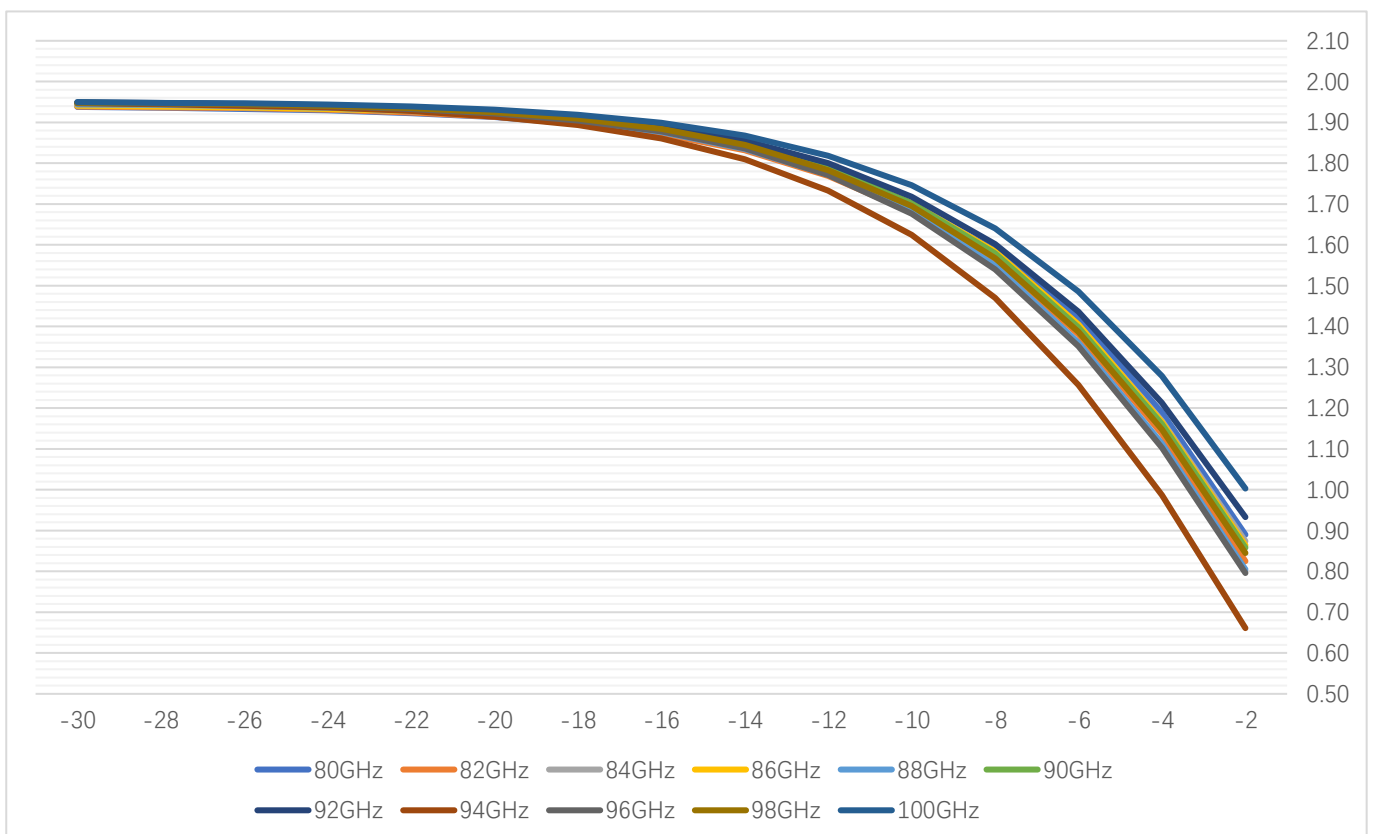
## Mechanical Information

Item	Description
Input Port	WR-10
IF Output Port	SMA Female
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	100g
Size:	30x20x20mm

## Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	0 dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

## Test Data



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## Dimension:

