AT-PD-5067-N1

Power Detector, 50-67GHz, Negative Slope

50-67GHz V Band Power Detector

Description:

AT-PD-5067-N1 is a V Band 1.85mm power detector that covers frequency range from 50-67GHz.

The detector can be used as envelope detector. The envelope bandwidth is about 1GHz. The sensitivity can be up to 1500V/W at V Band. A faraday isolator can be used to improve input port VSWR.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 50-67GHz
- ✓ High Sensitivity
- ✓ Max Linear -5dBm
- ✓ Envelope Detector

Application

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

Electronical Specifications:

Parameter	Min	Typical	Max
Frequency Range	50GHz		67GHz
Sensitivity		1500V/W	
Max Linear RF Input Power		-5dBm	
Input Power Range		-20 to -5dBm	
Output Voltage		0.8-1.9V	
Output Volage Polarity		Negative	
Envelope Bandwidth (Note)		1GHz	
Drain Voltage		+5V/2mA	
Power Handling			0dBm
Spec Temp		25C	

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

Shanghai AT Microwave Limited

Tel:021-6229 1233 Email:sales@atmicrowave.com www.atmicrowave.com

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Mechanical Information

Item	Description
Input Port	1.85mm
IF Output Port	SMA Female
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	100g
Size:	TBD

Absolute Maximum Ratings Table

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

Caution:

Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

Notes:

1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

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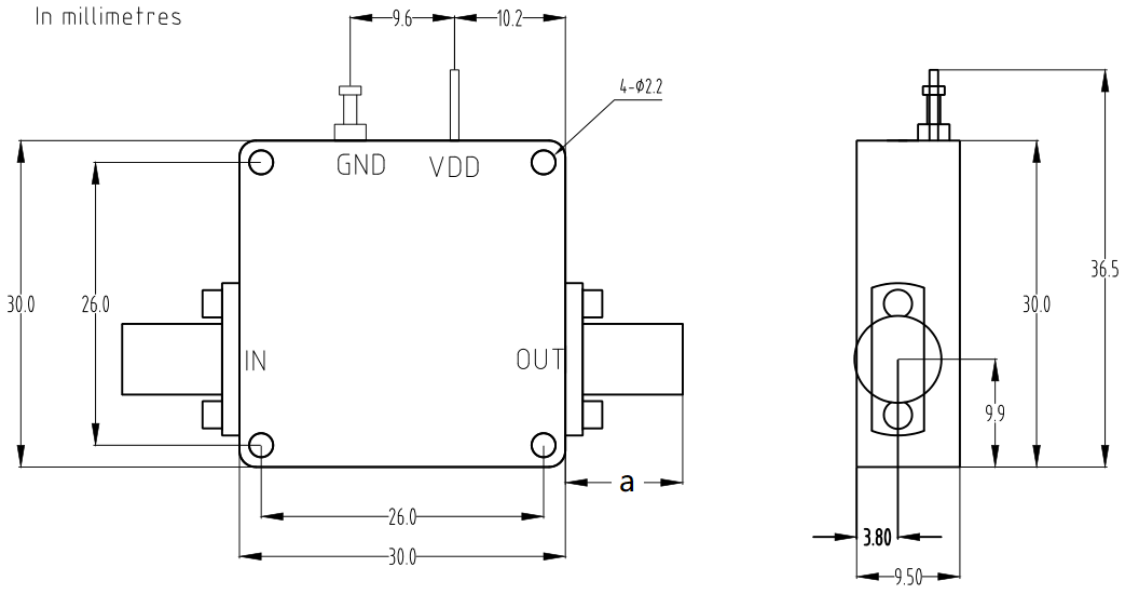
Dimension:



	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
Lenth of a	9.4mm	9.5mm	10.8mm	11.3mm

Note: Female Default. Contact with us for other types.

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