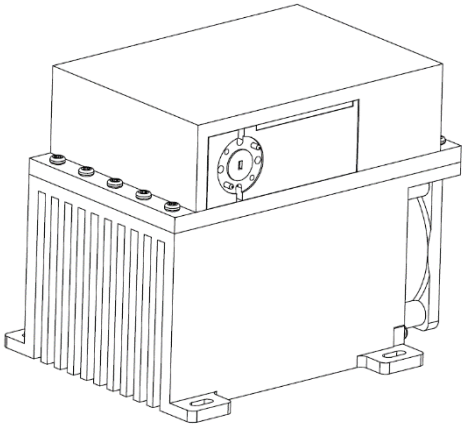
AT-PA-6090-2527GNE

60-90GHz Power Amplifier, Psat=+27dBm

Full E Band Power Amplifier, WR-12
High Gain=25dB , Psat=+27dBm

2022-9-1



Product Overview

AT-PA-6090-2527GNE is 25dB high gain power amplifier with +27dBm output power in the frequency of 60-90GHz. The DC power requirement is +16V/1.0A. The module is with a standard WR-12 waveguide.

The power amplifier has high gain, high linearity, low input/output return loss and flat gain response. Low gain module is available。

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 60-90GHz
- ✓ Psat:+27dBm
- ✓ Small signal gain: 25dB
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Frequency		60-90GHz	
Small Signal Gain	23dB	25dB	
Psat	+25dBm	+27dBm	
Supply Voltage		+16V	+18V
Quiescent Current/A (No RF)		0.6A	
Psat Current/A		1.0A	
Input Return Loss		-5dB	
Output Return Loss		-5dB	
Spec Temp		25C	

Note: Heat Sink is required.

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Mechanical Information

Item	Description
Input Port	WR-12
Output Port	WR-12
Case Material	Copper
Finish	Gold Plated
Weight (Without Heatsink)	450g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+20V
RF Input Power	+10dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +150C

Caution:

Please pay attention to the case temperature. If case temperature exceeds 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.

Dimension: (unit in mm)

To be added.