

Power Amplifier Module

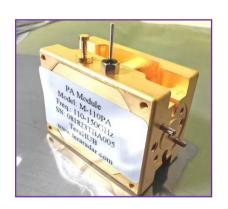
Product Features

• Frequency: 110-170GHz

• Small signal gain: 20dB

Psat: 16dBm

DC power supply



Electrical Specs:

Parameter	Minimum	Typical	Maximum
Frequency Range	110GHz		170GHz
Small Signal Gain		20dB	
Saturated Output Power		16dBm	
Input Power		1dBm	16dBm
Input VSWR		2	
Output VSWR		2	
Drain Positive Voltage		+10V	+15 V
Saturation current		200 mA	
Storage Temperature	5℃	+25 ℃	35℃
Operating Temperature	-55 ℃		+85°C

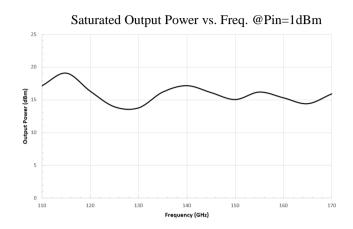
Mechanical Specs:

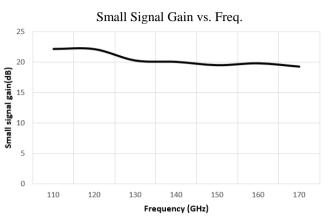
Item	Specification	
Input	WR06 waveguide, UG-387/UM	
Output	WR06 waveguide, UG-387/UM	
Bias	Solder Pin	
Size (W×L×H)	40mm×30mm×22mm	

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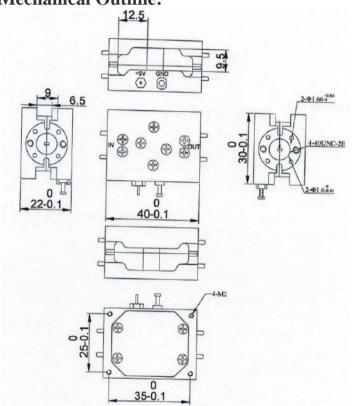


Measured Performance: (Vd=10V, Id=200mA, TA=+25°C)





Mechanical Outline:



Interface definition

Symbol	Function
IN	RF input
OUT	RF output
Vd	Power supply+10V
GND	Ground

Notes:

- 1) Electrostatic protection: Please strictly abide by the ESD protection requirements to avoid electrostatic damage;
- 2) When in use, the module should be grounded first, and then powered on;
- 3) It is necessary to ensure good heat dissipation during use;
- 4) The dimensions of the module can be customized according to user requirements;
- 5) Please contact terahub if you have any questions.

Notes:

- 1. Datasheet may be changed according to update of MMIC, Raw materials, process, and so on.
- 2. This data is the typical performance for the reference.

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