Power Amplifier Module

Product Features

- Frequency: 110-150GHz

- Small signal gain: 18dB

- Psat: 15dBm

- DC power supply

## Electrical Specs:

Parameter	Minimum	Typical	Maximum
Frequency Range	110GHz		150GHz
Small Signal Gain		18dB	
Saturated Output Power		15dBm	
Input Power		5dBm	10dBm
Input VSWR		2.5	
Output VSWR		2.5	
Drain Positive Voltage		+7V	+20 V
Saturation current		250 mA	
Specification Temperature	5℃	+25 ℃	35℃
Operating Temperature	-55 ℃		+85℃

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

Measured Performance: (Vd=7V，Id=250mA，TA=+25℃)

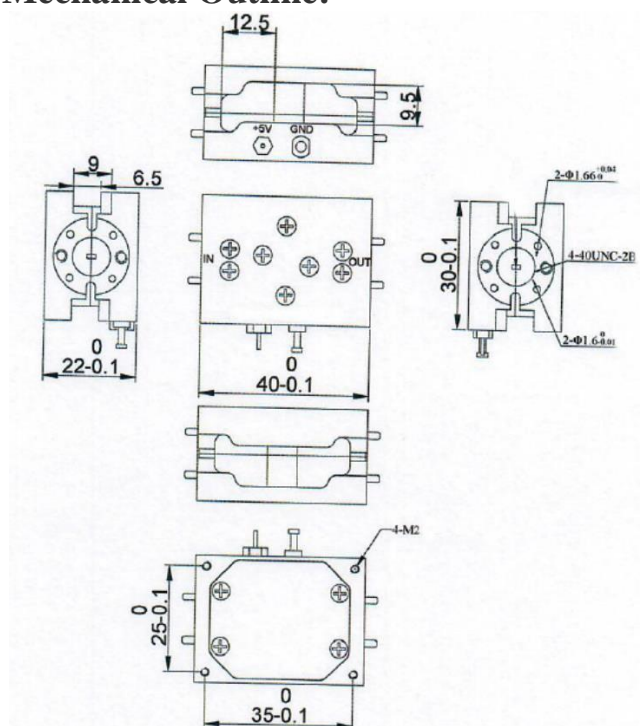Saturated Output Power vs. Freq. @Pin=5dBm
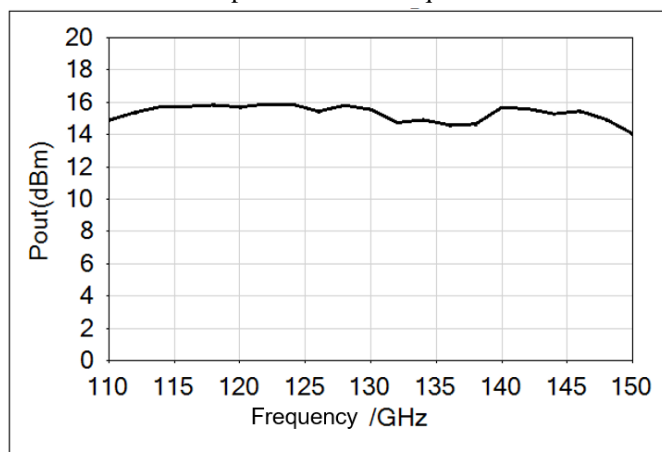
Small Signal Gain vs. Freq.
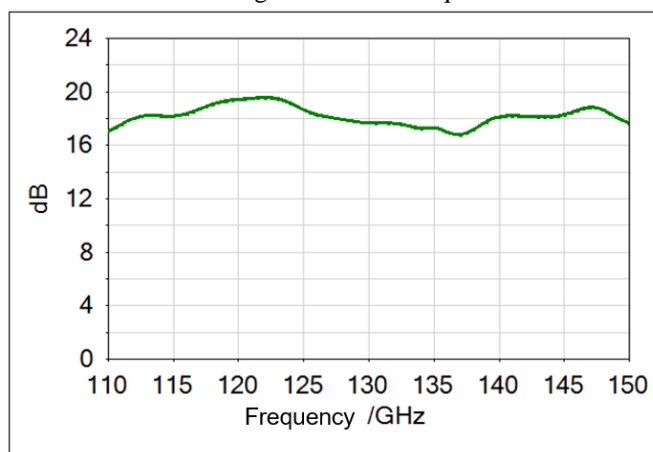
Mechanical Outline:

Interface definition

Symbol	Function
IN	RF input
OUT	RF output
Vd	Power supply+7V
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.