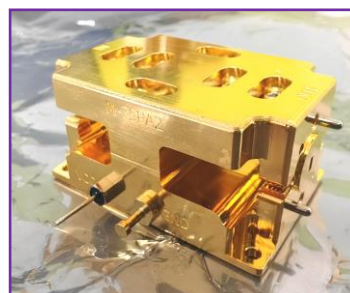


Power Amplifier Module

Product Features

- Frequency: 75-110GHz
- Small signal gain: 18dB
- Psat: 27dBm
- DC power supply



Electrical Specs:

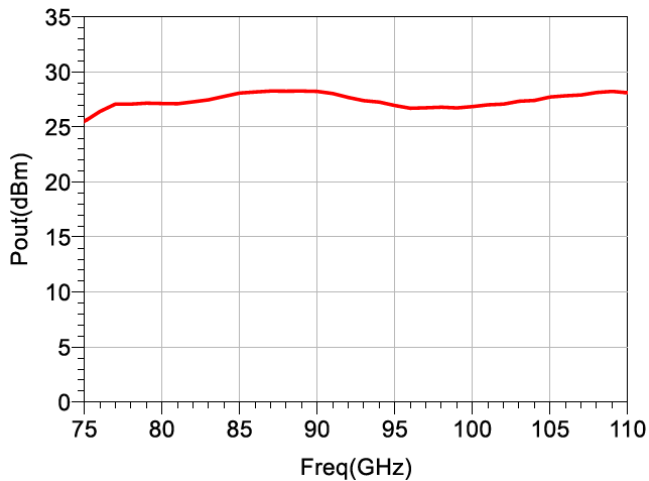
Parameter	Minimum	Typical	Maximum
Frequency Range	75GHz		110GHz
Small Signal Gain	16dB	18dB	
Saturated Output Power		27dBm	
Input Power		15dBm	26dBm
Input VSWR		1.8	
Output VSWR		1.8	
Drain Positive Voltage	+16V	+17V	+18V
Saturation current		310 mA	650 mA
Storage Temperature	0℃	+25℃	50℃
Operating Temperature	10℃		+40℃

Mechanical Specs:

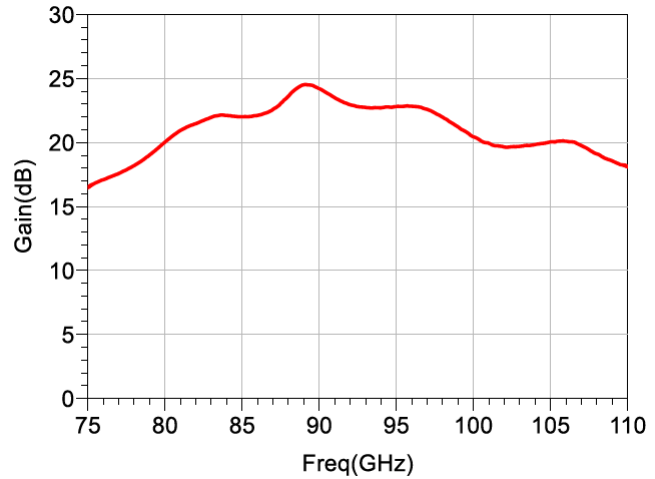
Item	Specification
Input	WR10 waveguide, UG-387/UM
Output	WR10 waveguide, UG-387/UM
Bias	Solder Pin
Size (W×L×H)	45mm×30mm×23mm

Measured Performance: ($V_d=17V$, $I_d=310mA$, $T_A=+25^{\circ}C$)

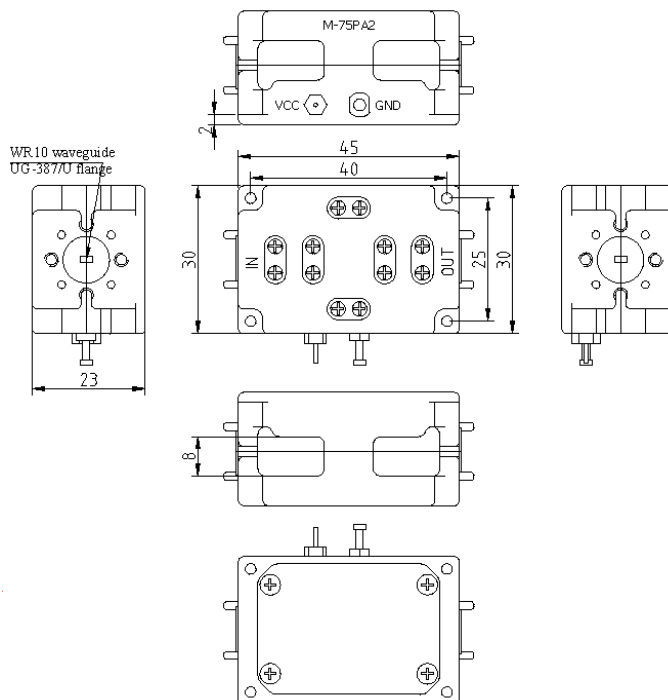
Saturated Output Power vs. Freq. @Pin=18dBm



Small Signal Gain vs. Freq.



Mechanical Outline:



Interface definition

Symbol	Function
IN	RF input
OUT	RF output
VCC	Power supply: +17V
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) Datasheet may be changed according to update of MMIC, Raw materials , process, and so on;
- 6) This data is the typical performance for the reference;
- 7) Please contact terahub if you have any questions.