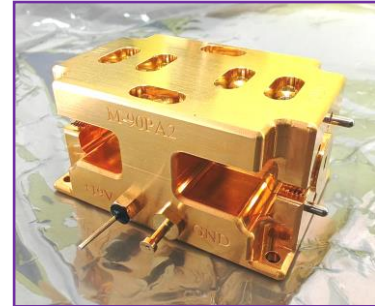


Power Amplifier Module

Product Features

- Frequency: 90-98GHz
- Small signal gain: 17.4dB
- Psat: 27.8dBm
- DC power supply



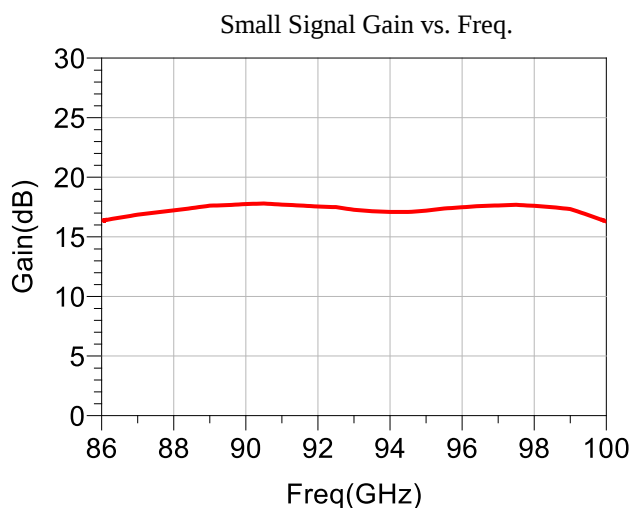
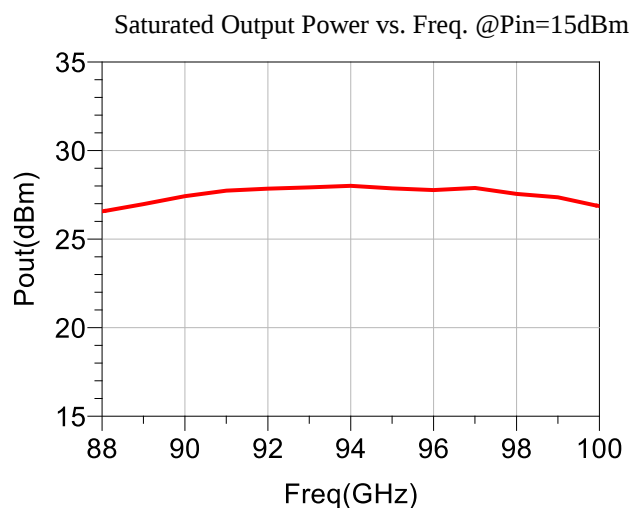
Electrical Specs:

Parameter	Minimum	Typical	Maximum
Frequency Range	90GHz		98GHz
Small Signal Gain	17.1dB	17.4dB	17.8dB
Gain Flatness		± 0.3 dB	
Saturated Output Power	27.4dBm	27.8dBm	28dBm
Input Power		15dBm	25dBm
PAE		7%	
Input Return Loss		-10dB	
Output Return Loss		-8dB	
Drain Positive Voltage		+19V	
Saturation current		360 mA	430 mA
Storage Temperature	5 °C	+25 °C	35 °C
Operating Temperature	-55 °C		+85 °C

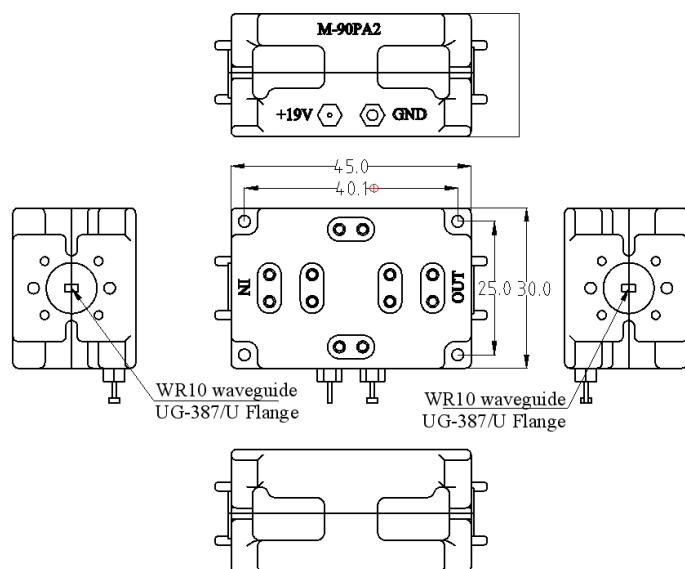
Mechanical Specs:

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: ($V_d=19V$, $I_d=360mA$, $T_A=+25^{\circ}C$)



Mechanical Outline:



Interface definition

Symbol	Function
IN	RF input
OUT	RF output
+19V	Power supply
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.