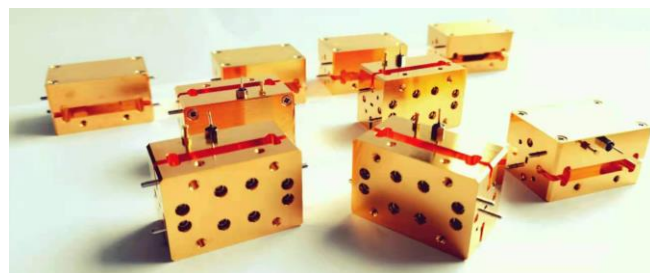


Power Amplifier Module

Product Features

- Frequency: 18-40GHz
- Small signal gain: 19dB
- Psat: 37.5dBm@14%PAE
- DC power supply



Electrical Specs:

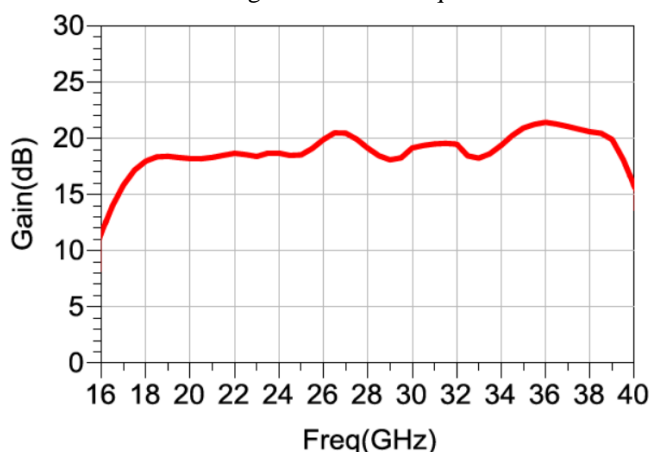
Parameter	Minimum	Typical	Maximum
Frequency Range	18 GHz		40GHz
Small Signal Gain		19dB	
Power Gain		11.5dB	
Saturated Output Power		37.5dBm	
Input Power			30dBm
PAE		14%	
Input VSWR		1.5	
Output VSWR		1.5	
Drain Positive Voltage		+18V	+20 V
Negative Gate Voltage		-5V	
Saturation current		2500 mA	
Specification Temperature		+25 °C	
Operating Temperature	-55 °C		+85°C

Mechanical Specs:

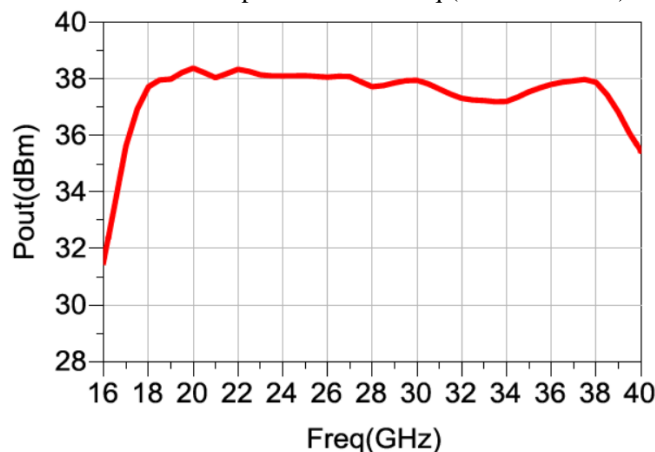
Item	Specification
Input	2.92mm(F)
Output	2.92mm(F)
Bias	Solder Pin
Weight	0.15kg
Size (W×L×H)	28.2 mm×22 mm×7 mm

Measured Performance: ($V_d=18V@I_d=1080mA$ ($V_g=-1.6V$))

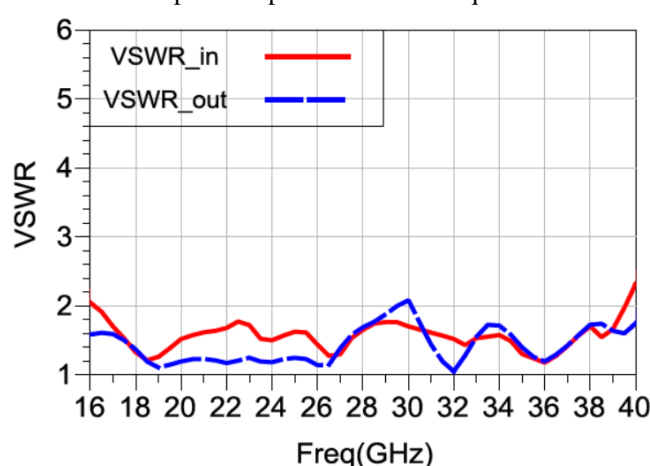
Small Signal Gain vs. Freq.



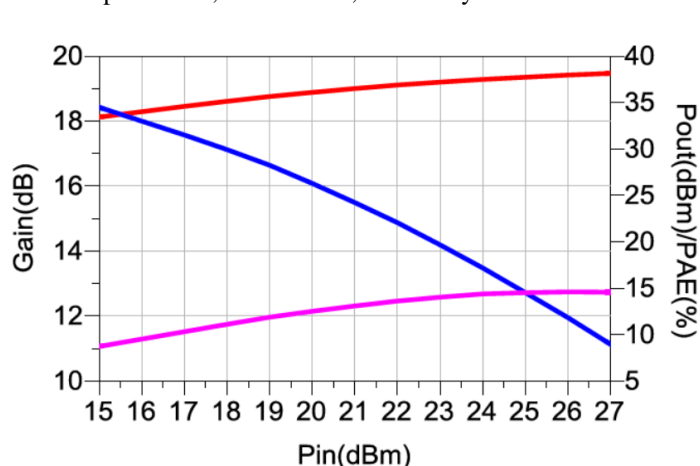
Saturated Output Power vs. Freq.(@Pin=26dBm)



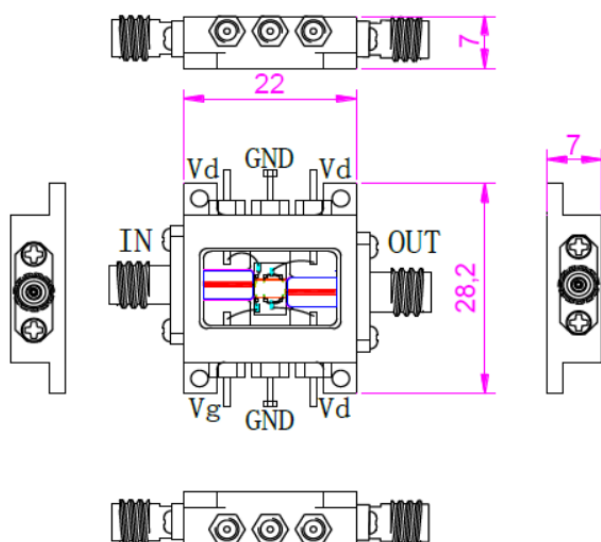
Input / Output VSWR vs. Freq.



Output Power, Power Gain, Efficiency vs. Pin.@30GHz



Mechanical Outline:



Interface definition

Symbol	Function
IN	RF input, 2.92mm(F)
OUT	RF output, 2.92mm(F)
Vd	Power supply+18V
Vg	Power supply-1.6V
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) The power-on sequence is first Vg and then Vd, and the power-off sequence is Vd first and then Vg;
- 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.