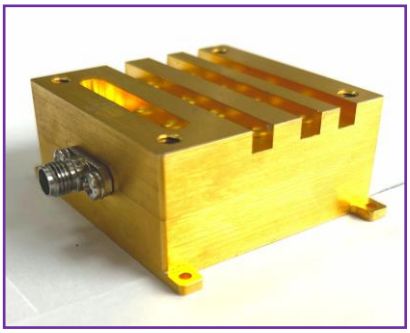
Power Amplifier Module

Product Features

- Frequency: 18-40GHz
- Small signal gain: 18dB
- Psat: 39.5dBm@12%PAE
- DC power supply



Electrical Specs:

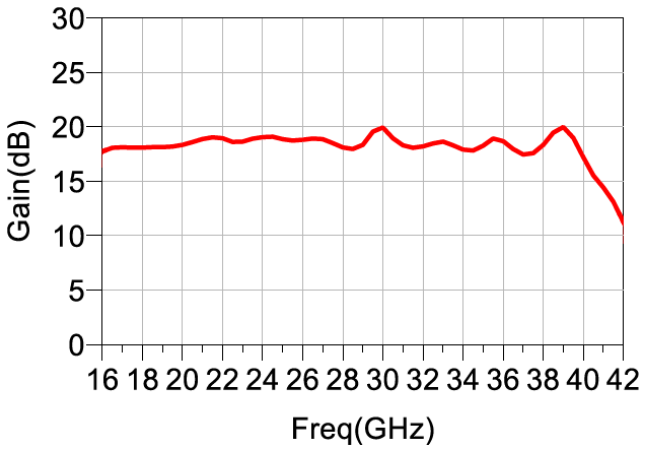
Parameter	Minimum	Typical	Maximum
Frequency Range	18 GHz		40GHz
Small Signal Gain		18dB	
Saturated Output Power		39.5dBm	
Input Power			30dBm
PAE		12%	
Input VSWR		1.5	
Output VSWR		2	
Drain Positive Voltage		+18V	+19 V
Negative Gate Voltage			-5V
Saturation current		2.2A	5A
Storage Temperature	5℃	+25 ℃	35℃
Operating Temperature	-55 ℃		+85℃

Mechanical Specs:

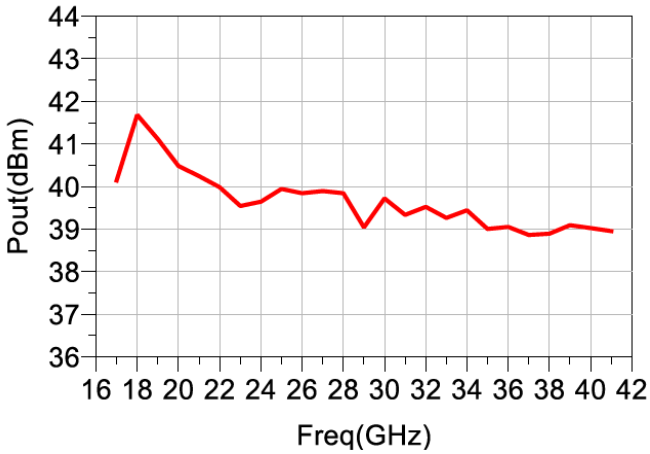
Item	Specification
Input	2.4mm-K
Output	2.4mm-K
Bias	Solder Pin
Weight	0.15kg
Size（W×L×H）	50mm×50mm×20mm

Measured Performance: (Vd=18V@Id=2.2A)

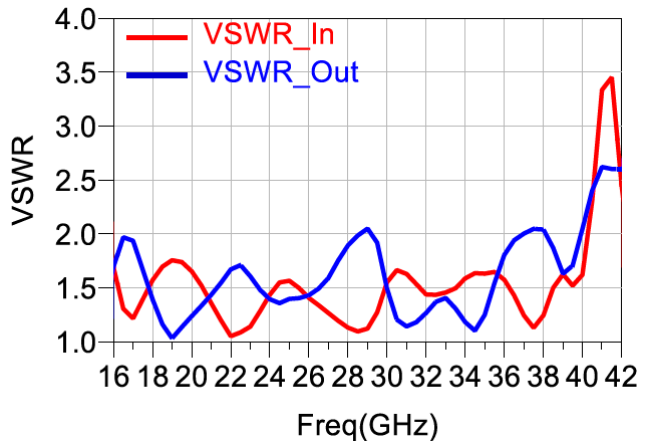
Small Signal Gain vs. Freq.



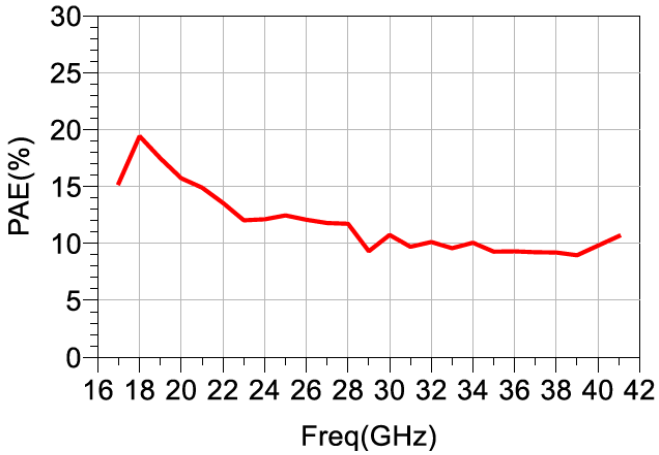
Saturated Output Power vs. Freq.(@Pin=28dBm)



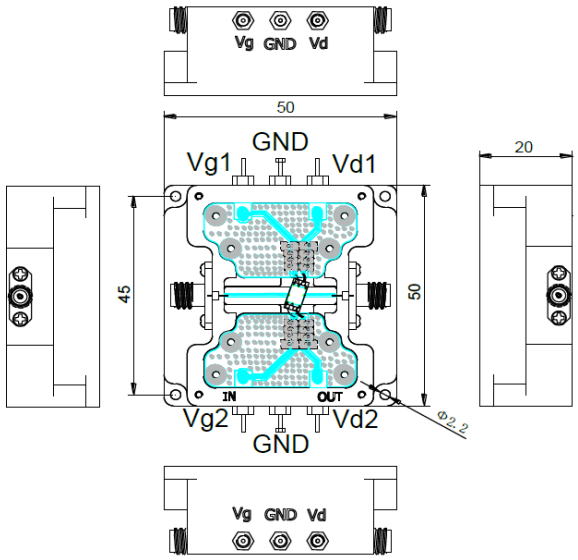
Input / Output VSWR vs. Freq.



PAE vs. Freq.@ (@Pin=28dBm)



Mechanical Outline:



Interface definition

Symbol	Function
IN	RF input, 2.4mm-K
OUT	RF output, 2.4mm-K
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) Good heat dissipation is required for use;
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.