

Power Amplifier Module

Product Features

- Frequency: 36-42GHz
- Psat: 39dBm
- Small Signal Gain: 20dB
- DC: 19V@0.88A
- Design with heat dissipation



Electrical Specs(V=+19V, I=0.88A, T_A=23°C):

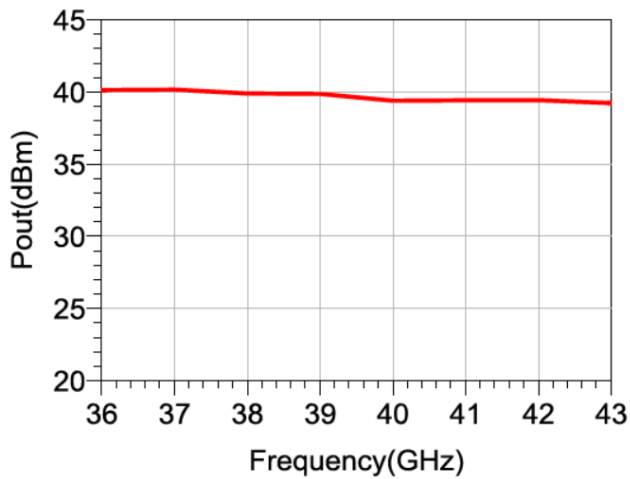
Parameter	Minimum	Typical	Maximum
Frequency Range(GHz)	36		42
Small Signal Gain(dB)		20	
Psat(dBm)		39	
Input Power(dBm)		26	27
Input VSWR(dB)		2	
Output VSWR (dB)		1.5	
DC Power Supply (V)	19		24
Saturation Current (A)		2.1	
Operating Temperature(°C)	10	23	40
Storage Temperature(°C)	0		50

Mechanical Specs:

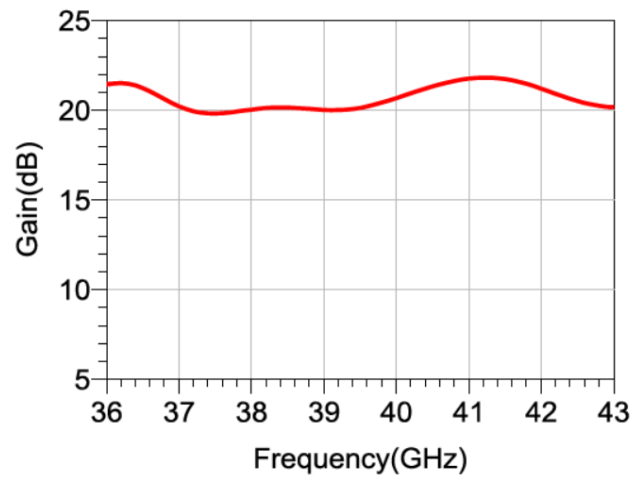
Item	Specification
Input, IN	WR22 Waveguide with UG-383/U Flange
Output	WR22 Waveguide with UG-383/U Flange
Size (W×L×H)	50 mm×45 mm×31 mm; Tolerance: ±0.1mm

Measured Performance:

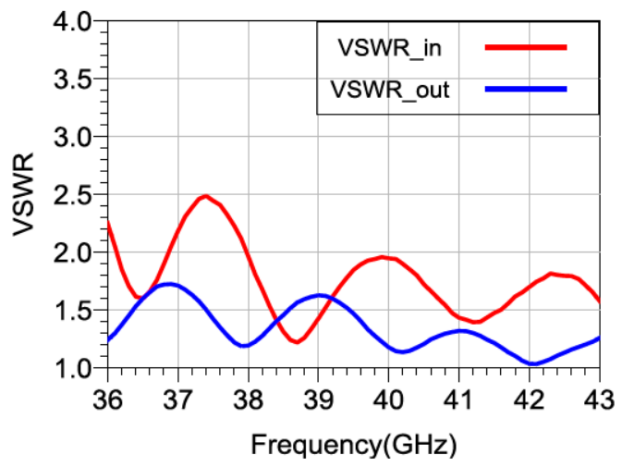
P_{sat} vs. Freq. @Pin=26dBm



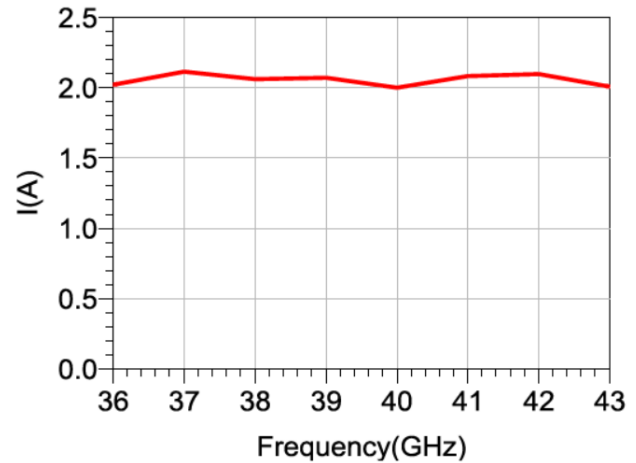
Gain vs. Freq.



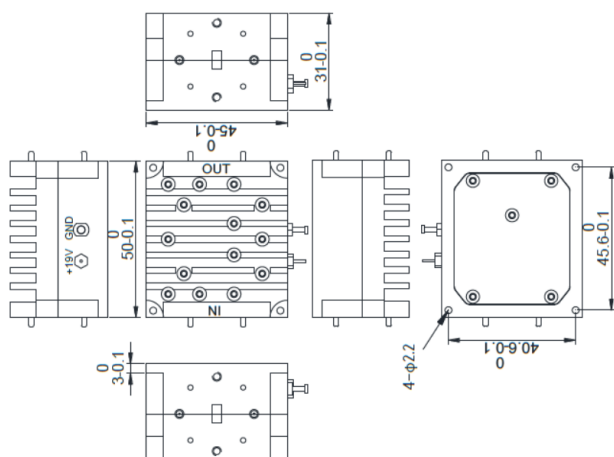
Input/Output VSWR vs. Freq.



Saturation Current vs. Freq. @Pin=26dBm



Mechanical Outline:



Symbol	Function
IN	RF input, WR22 waveguide
OUT	RF output, WR22 waveguide
+19V	DC Power Supply, +19V
GND	Grounding

Notes:

1. Electrostatic protection: Please strictly comply with ESD protection requirements to avoid electrostatic damage;
2. Please keep heat dissipation when using the module;

1. Datasheet may be changed according to update of MMIC, Raw materials, process, and so on.