

POWER AMPLIFIER

MPA0506.45
0.5GHz-6GHz

Features

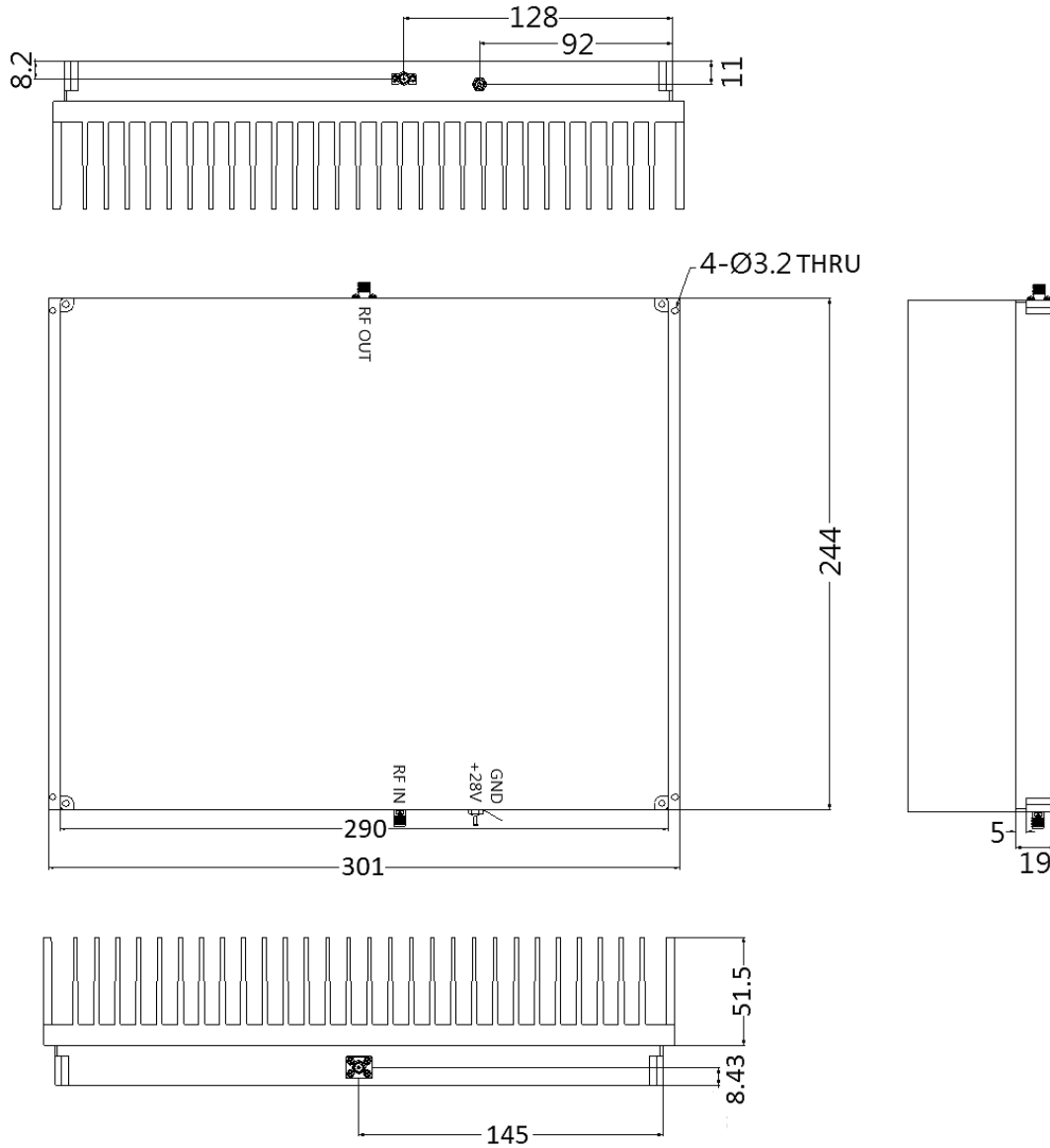
- ✓ High gain operation from 0.5GHz to 6.0GHz
- ✓ Low VSWR, unconditional stable
- ✓ High gain with good gain flatness
- ✓ Single DC power supply, internal voltage regulator
- ✓ Operating temperature -40~+75°C, storage temperature -55~+125°C

Specifications

Parameters	Minimum	Typical	Maximum
Frequency Range	0.5-6.0GHz		
Small Signal Gain	45dB	47dB	
Gain flatness		±4dB	±5dB
Input VSWR		1.5:1	2.5:1
Output Power for 1 dB Compression (P1dB)	41dBm	44dBm	
Saturated Output Power (Psat)		46dBm	
RF Input Power (no damage)			8 dBm
Harmonic Rejection	13dB	15dB	
DC Current (Vcc=+28V)		4A	5A
Operating Temperature	-40°C		+75°C
Storage Temperature	-55°C		+125°C
In/Out connectors	50 ohm SMA female		

Tolerance: $\pm 0.3\text{mm}$

Outline Drawing (Unit: mm)



Absolute Maximum Ratings	
Supply Bias Voltage	+28V
RF Input Power	+10dBm
ESD sensitivity (HBm)	Class 0, passed 150V

****Note: Heat Sink required during operation**

NOTES:
1. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY

