

# POWER AMPLIFIER

**MPA0408.50**  
**4.0GHz-8.0GHz**

## Features

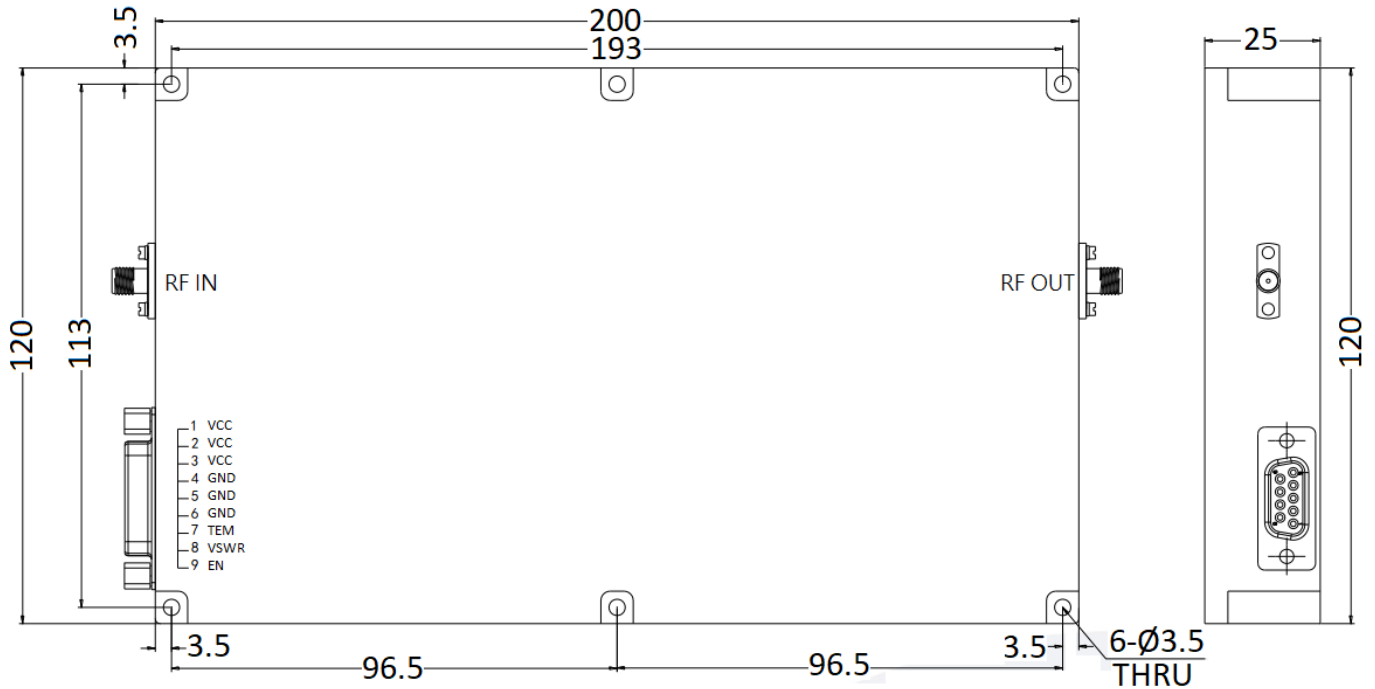
- ✓ High gain operation from 4.0GHz to 8.0GHz
- ✓ Low VSWR, unconditional stable
- ✓ High gain with good gain flatness
- ✓ Single DC power supply, internal voltage regulator
- ✓ Operating temperature -45~+70°C, storage temperature -55~+125°C

## Specifications

Parameters	Minimum	Typical	Maximum
Frequency Range	4.0-8.0GHz		
Small Signal Gain	50dB	52dB	
Gain flatness		±3dB	±4dB
Output Power for 1 dB Compression (P1dB)	43dBm	43.5dBm	
Saturated Output Power (Psat)	43.5dBm	44dBm	
Input VSWR		1.5:1	2.0:1
Supply Current (Vcc=+28V)		2A	10A
Operating Temperature	-45°C		+70°C
Storage Temperature	-55°C		+125°C
In/Out connectors	50 ohm SMA female		
Bias	Solder Pin		
Size	140 x 80 x 15 MM		

Tolerance:  $\pm 0.5\text{mm}$

### Outline Drawing (Unit: mm)



**\*Heat Sink Required During Operation**

**\*Observe Precautions**

**\*Electrostatic Sensitive Devices**

Absolute Maximum Ratings	
Supply Bias Voltage	30V
RF Input Power	3 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Environmental Specifications	
Operating Temperature	-45°C~+70°C
Storage Temperature	-55°C~+125°C
Relative humidity	95%
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Shock	20G for 11msc half sine wave, 3 axis both directions

NOTES:

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

