

POWER AMPLIFIER

MPA0108.40
1GHz-8GHz

Features

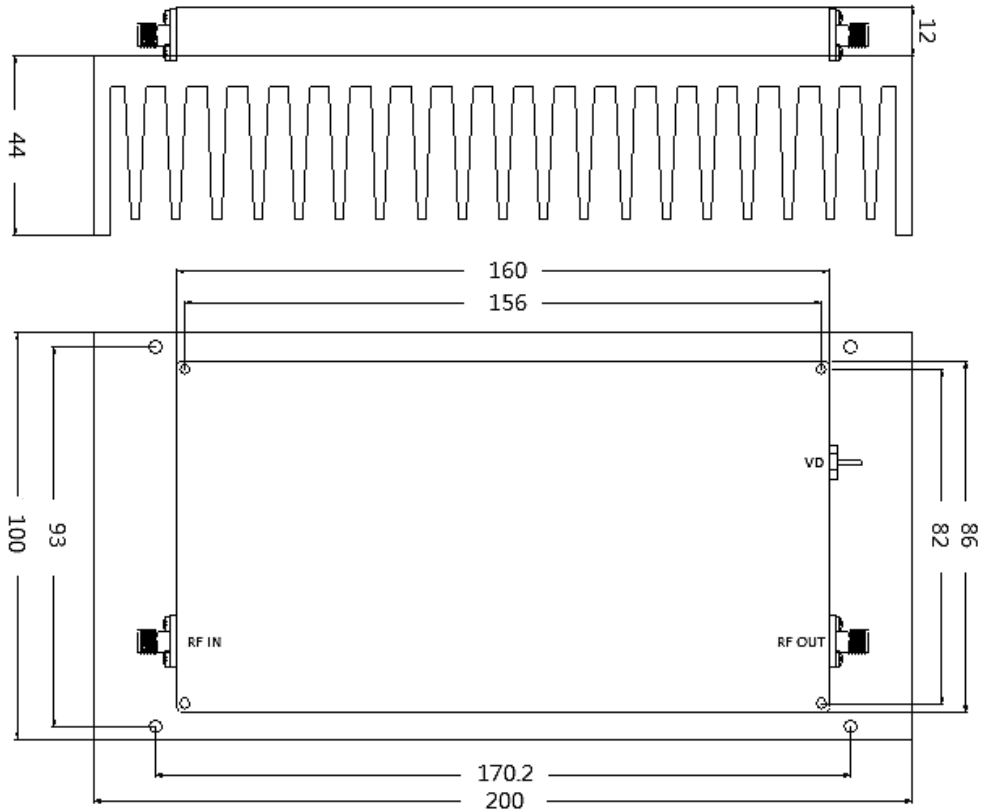
- ✓ High gain operation from 1.0GHz to 8.0GHz
- ✓ Low VSWR, unconditional stable
- ✓ High gain with good gain flatness
- ✓ Single DC power supply, internal voltage regulator
- ✓ Operating temperature -35~+70°C, storage temperature -55~+125°C

Specifications

Parameters	Minimum	Typical	Maximum
Frequency Range	1.0-8.0GHz		
Small Signal Gain	40dB		
Gain flatness		±2.5dB	
Input VSWR		1.5:1	2.0:1
Output Power for 1 dB Compression (P1dB)		37dBm	
Saturated Output Power (Psat)	40dBm		
RF Input Power (no damage)			5 dBm
Internally Generated Spurious		-60dBc	
DC Current (Vcc=+28V) (@Pout=10W)		2A	
Operating Temperature	-35°C		+70°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	+30V
RF Input Power	+10dBm
ESD sensitivity (HBM)	Class 0, passed 150V

Environmental Conditions	
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

****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

