

# MODEL HIPA18402533

## 18-40GHz Broadband Power Amplifier



Note: The photo is for illustration purposes only. Please refer to outline drawing

### ■ Features

- Ultra Wide Band: 18-40GHz
- Gain: 25dB
- Output Power Psat: 33dBm
- Bias: Vd=12V;Id=3.5A

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	18-40			GHz
Small Signal Gain	20	25		dB
Gain Flatness		± 1.5		dB
Input VSWR		1.8		-
Output VSWR		1.8		-
Output Power for 1 dB Compression (P1dB)		32		dBm
Saturated Output Power (Psat)		33		dBm
Input Max Power(no damage)			14	dBm
DC Current (Vcc=9+15V) (@Pout=2W)		3	4	A
Impedance	50			Ω
Input Output Connector	2.92			
Material	Aluminium/Gold Painting			
Weight	-			
Dimension	With Heatsink & fan			

### Environmental Conditions

Operational Temperature	-45°C~+85°C	Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Storage Temperature	-55°C~+125°C	Shock	20G for 11msc half sin wave, 3 axis both directions
Executive Standard	MIL-STD-810G	Humidity	100% RH at 35c, 95%RH at 40°C

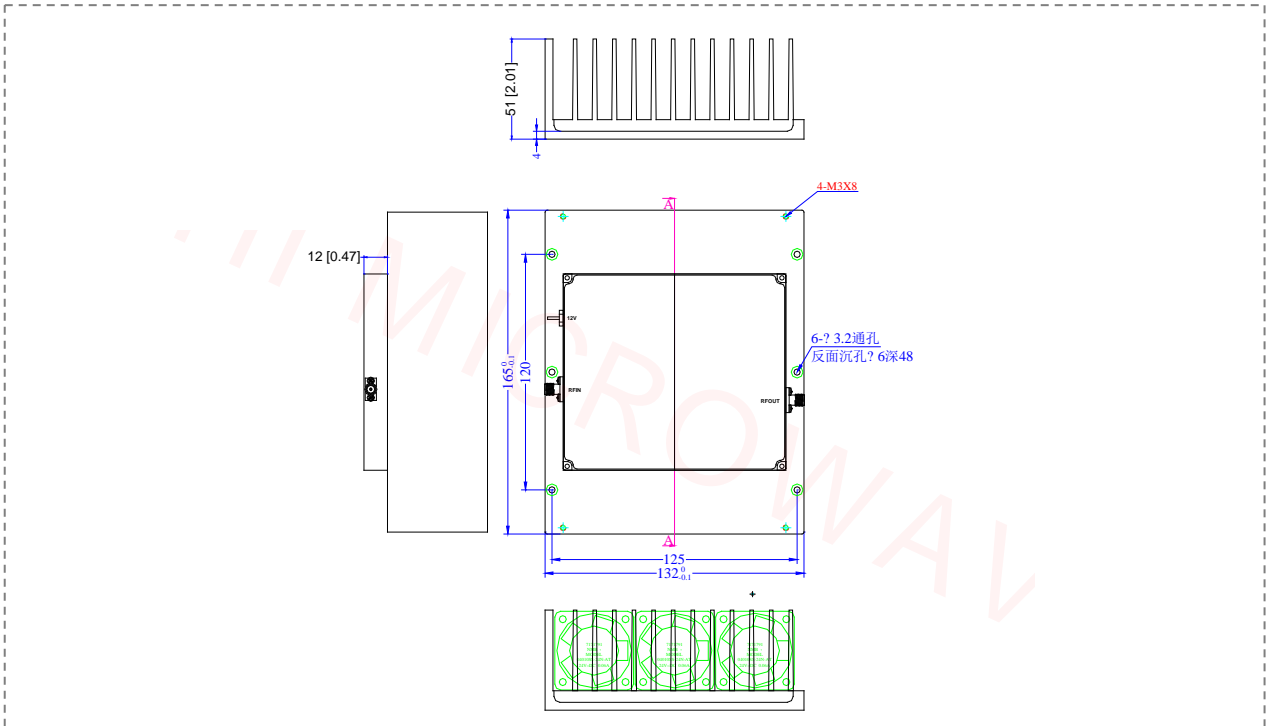
### Absolute Maximum Ratings

Supply Bias Voltage	+15V
RF INPUT POWER	14dBm
ESD sensitivity (HBm)	Class 0, passed 150V



### Outline Drawing

All Dimensions in mm ( inches ) Tolerance  $\pm 0.25$  ( 0.01 )



**\*\*\*Heat Sink required during operation\*\*\***