

MODEL HIPA06184035

6-18GHz Power Amplifier



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

■ Features

- Ultra Wide Band: 6-18GHz
- Gain: 40dB
- Output Power Past: 35dBm
- Bias: Vd=12V;Id=3A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

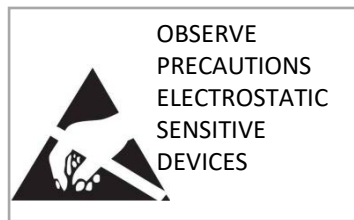
Parameter	Min.	Typ.	Max	Units
Frequency Range	6-18			GHz
Small Signal Gain	40			dB
Gain Flatness		± 1.5	± 3	dB
Input/Output VSWR		1.5	2.0	-
Output Power for 1 dB Compression (P1dB)		34		dBm
Saturated Output Power (Psat)	35			dBm
Input Max Power(no damage)			+5	dBm
Internally Generated Spurious		-60		dBc
DC Current (Vcc=+12V) (@Pout=3W)		3		A
Impedance	50			Ω
Input Output Connector	SMA-k/SMA-K			
Material	Aluminium			
Weight	300g			
Dimension	85mmX50mmX12mm			

Environmental Conditions

Operational Temperature	-35°C~+70°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

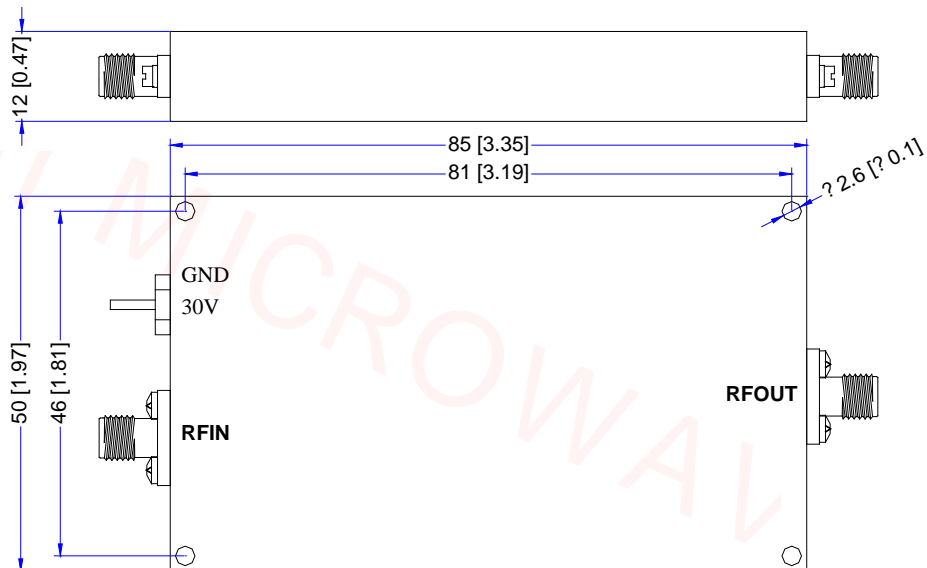
Absolute Maximum Ratings

Supply Bias Voltage	+12V
RF INPUT POWER	+5dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing

All Dimensions in mm (inches) Tolerance ± 0.25 (0.01)



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