

MODEL HIPA11123530

11.7-12.45GHz Power Amplifier



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

■ Features

- Ultra Wide Band: 11.7-12.45GHz
- Gain: 35dB
- Output Power Psat: 30dBm
- Bias: Vd=12V;Id=0.6A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications


Parameter	Min.	Typ.	Max	Units
Frequency Range	11.7-12.45			GHz
Small Signal Gain		35		dB
Gain Flatness		± 1.5	± 2.0	dB
Input VSWR		1.6	2.0	-
Output VSWR		1.6	2.0	-
Output Power for 1 dB Compression (P1dB)		30		dBm
Saturated Output Power (Psat)		31		dBm
Input Max Power(no damage)			0	dBm
DC Current (Vcc=+12V)		600	750	mA
Impedance	50			Ω
Input Output Connector	SMA-K			
Material	Aluminium/Gold Painting			
Weight	200g			
Package Sealing	General Sealing (Standard)			

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	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V

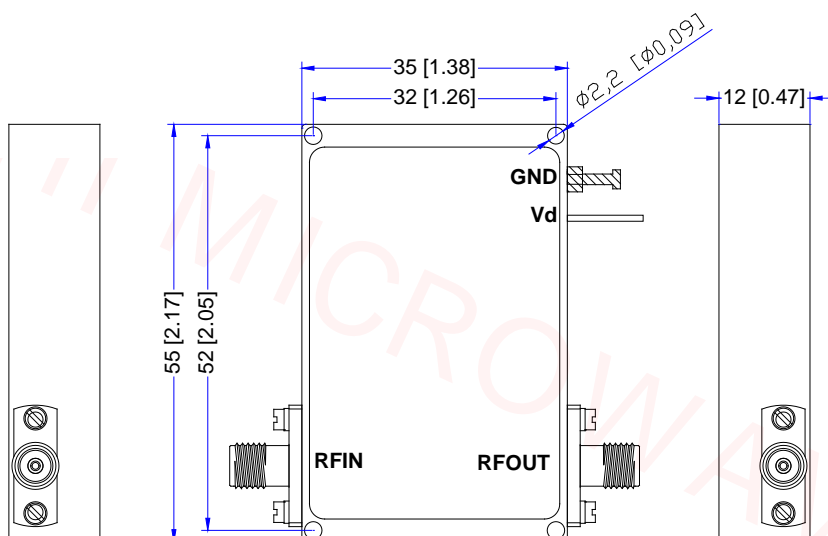


OBSERVE
PRECAUTIONS
ELECTROSTATIC
SENSITIVE
DEVICES



Outline Drawing

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



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