

MODEL HIPA24473026

24-47GHz Broadband Power Amplifier



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

■ Features

- Ultra Wide Band: 24-47GHz
- Gain: 30dB
- Output Power P-1: 25dBm
- Bias: Vd=12V;Id=1A

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	24-47			GHz
Small Signal Gain	25	30		dB
Gain Flatness		±2.0		dB
Input VSWR		2.0	2.5	-
Output VSWR		1.8	2.0	-
Output Power for 1 dB Compression (P1dB)	25	26		dBm
Saturated Output Power (Psat)		26		dBm
NF		-		dB
Input Max Power(no damage)			5	dBm
DC Current (Vcc=+12V) (@Pout=0.3W)		0.6	1	A
Impedance	50			Ω
Input Output Connector	2.4			
Material	Aluminium/Gold Painting			
Weight	200g			
Dimension	40mmX35mmX12mm			
Package Sealing	General Sealing (Standard) Hermetically sealed(Optional)			

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	5dBm
ESD sensitivity (HBm)	Class 0, passed 150V

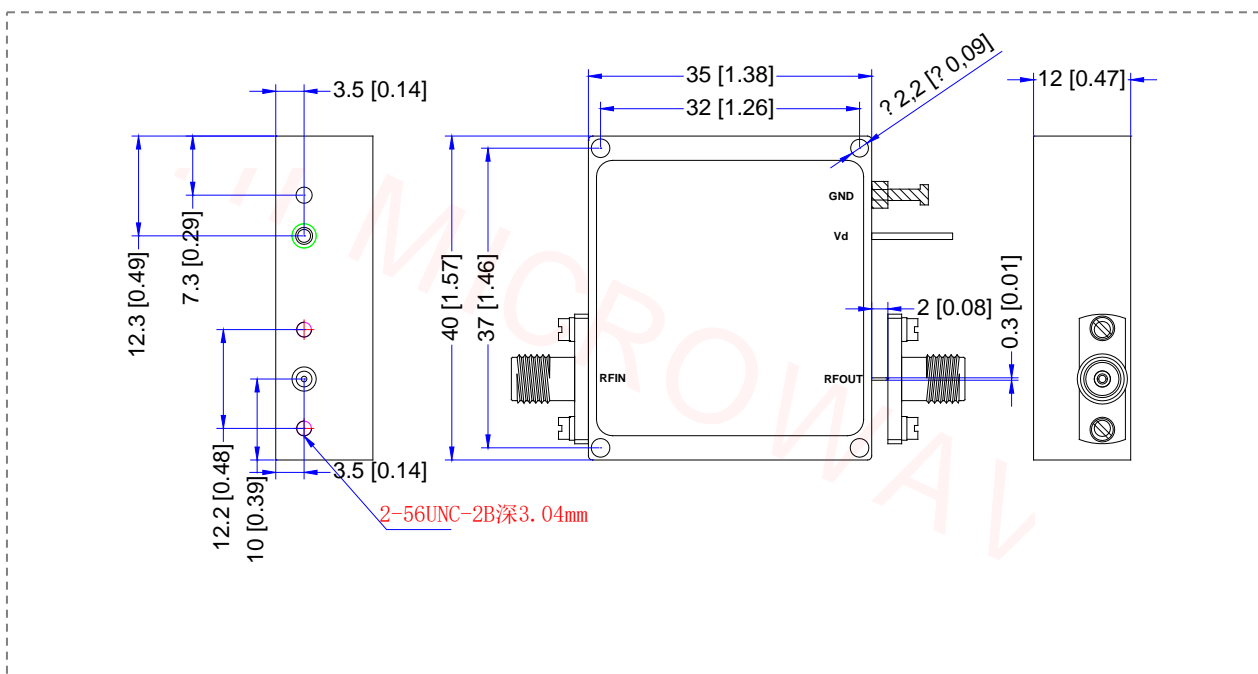


OBSERVE
PRECAUTIONS
ELECTROSTATIC
SENSITIVE
DEVICES



Outline Drawing

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



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