

MODEL HILNA18504045

18-50GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 18-50GHz
- Gain: 40dB
- Output Power: 10dBm
- High Output IP3: 15dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	18-50			GHz
Gain	40	43		dB
Gain Flatness		±2.5	±3	dB
Input VSWR		1.8	2.5	-
Output VSWR		1.8	2.5	-
Output Power for (P1dB)	10			dBm
Noise Figure		4.5	5.5	dB
Spurious		-60		dBc
Output IP3		15		dBm
Input Max Power(no damage)			-20	dBm
DC Current (Vcc=+12V)		400		mA
Impedance	50			Ω
Input Output Connector	2.4mm-Female			
Material/Finishing	Aluminium\Gold Plating			
Weight	50g			
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

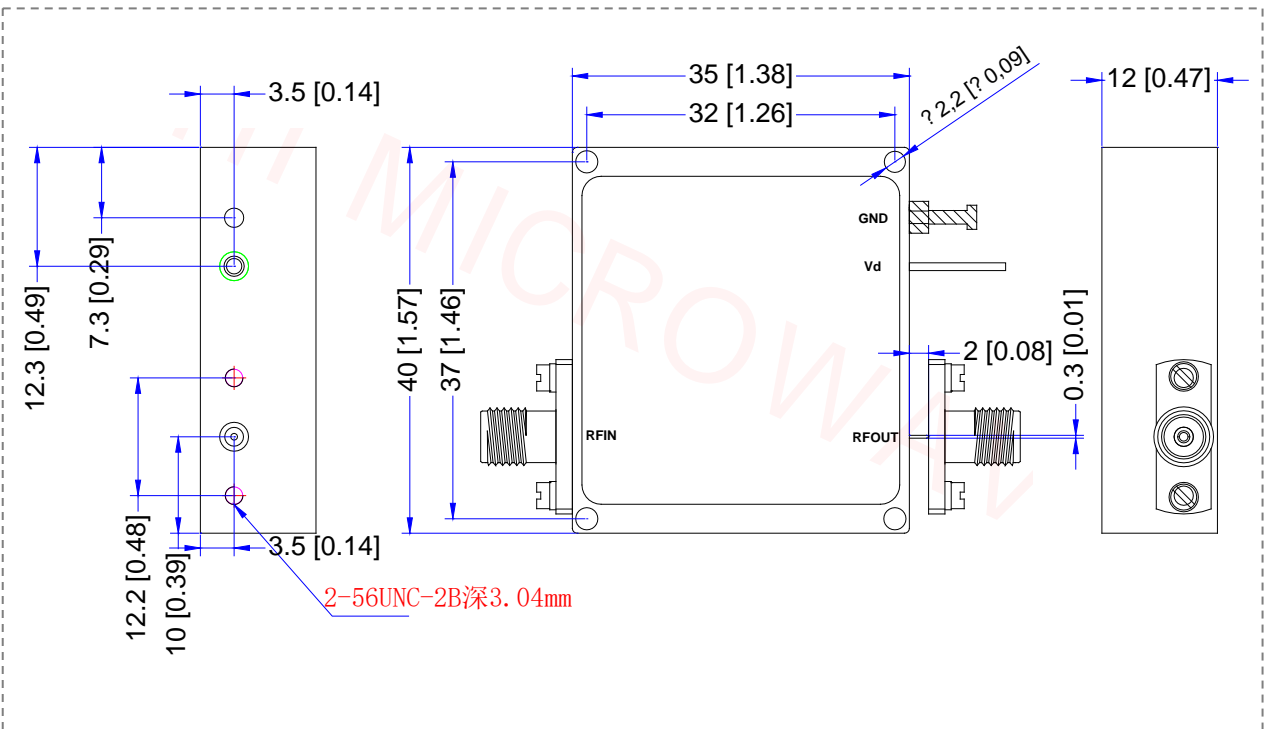
Supply Bias Voltage	+15V
RF INPUT POWER	-20dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE
PRECAUTIONS
ELECTROSTATIC
SENSITIVE
DEVICES

Outline Drawing

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



Heat Sink required during operation