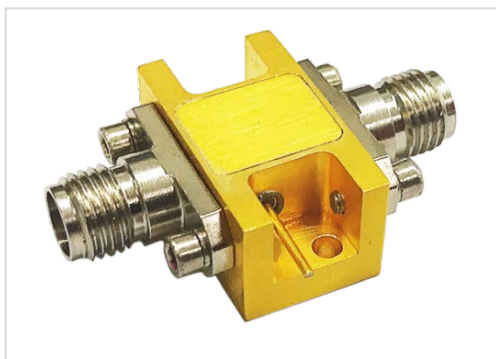


MODEL HILNA08124009

8-12GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 8-12GHz
- Gain: 40dB
- Output Power: 12dBm
- High Output IP3: 20dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	8~12			GHz
Gain	40			dB
Gain Flatness			±1.5	dB
Gain Variation Over Temperature		±1		dB
Input VSWR		1.8	2.0	
Output VSWR		1.6	2.0	
Output Power for 1 dB	10	12		dBm
Saturated Output Power (Psat)		13		dBm
Noise Figure		0.9		dB
OIP3		20		
Spurious			-60	dBc
Altitude		40000		Feet
Input Max Power			-25	dBm
DC Current (Vcc=+12~15V)			250	mA
Impedance	50			Ω
Input Output Connector	SMA-k/SMA-K			
Material	Aluminium/Gold			
Weight	50g			
Package Sealing	Hermetical Sealing (Laser seal welding)			

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-810F	Humidity	100% RH at 35c, 95%RH at 40°C

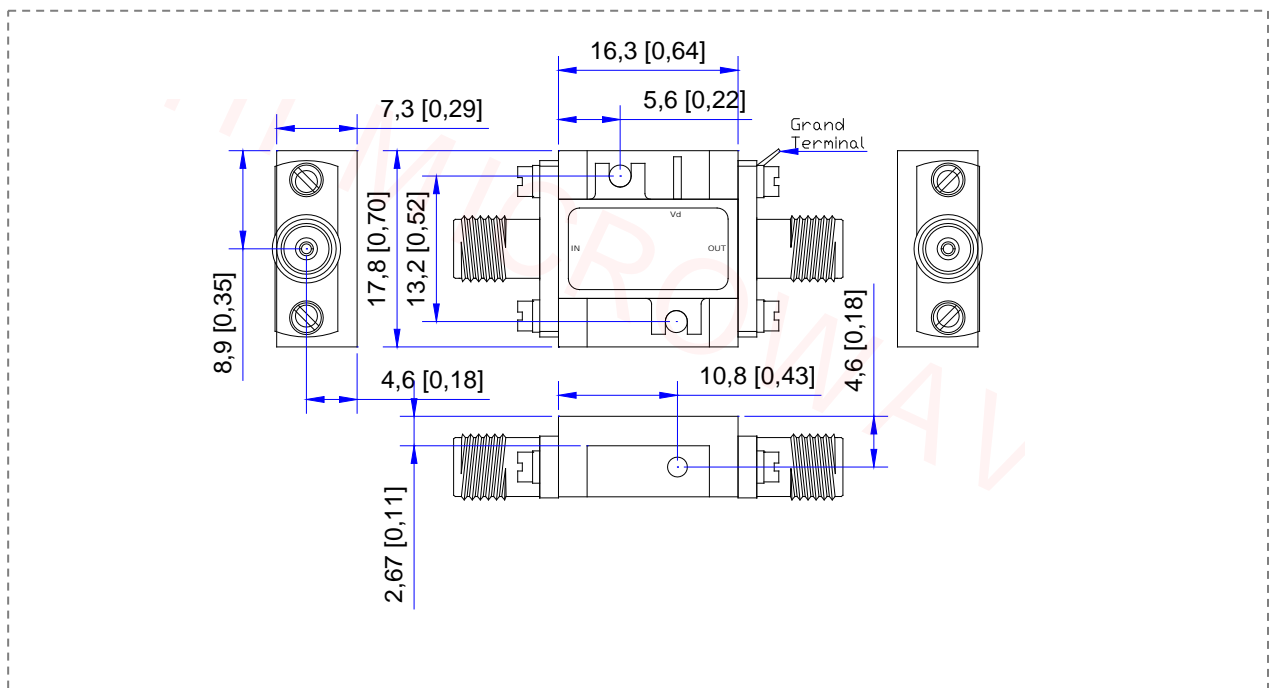
Absolute Maximum Ratings

Supply Bias Voltage	15V
RF INPUT POWER	13dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing

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



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