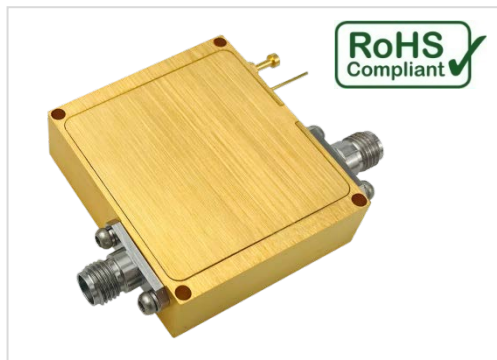


MODEL HILNA02404040B

2-4GHz Low Noise Amplifier



■ Features

- Ultra Broadband: 2-40GHz
- High Gain: 40dB
- Output Power: 20dBm
- High Output IP3: 30dBm

■ Applications

- Radar Systems
- Communication Systems
- Receiving Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max.	Units
Frequency Range	2-40			GHz
Gain	40	43		dB
Gain Flatness		±1.5	±2.5	dB
Input VSWR		1.8	2.0	-
Output VSWR		1.8	2.0	-
Output Power for 1 dB Compression (P1dB)		18		dBm
Saturated Output Power (Psat)		20		dBm
Noise Figure		4	6	dB
Spurious		-60		dBc
Input Max Power(no damage)			-15	dBm
DC Current (Vcc=+12V)		400		mA
Impedance	50			Ω
Input Output Connector	2.92mm-Female			
Material	Aluminium			
Weight	30g			
Size	40mmX35mmX12mm			
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

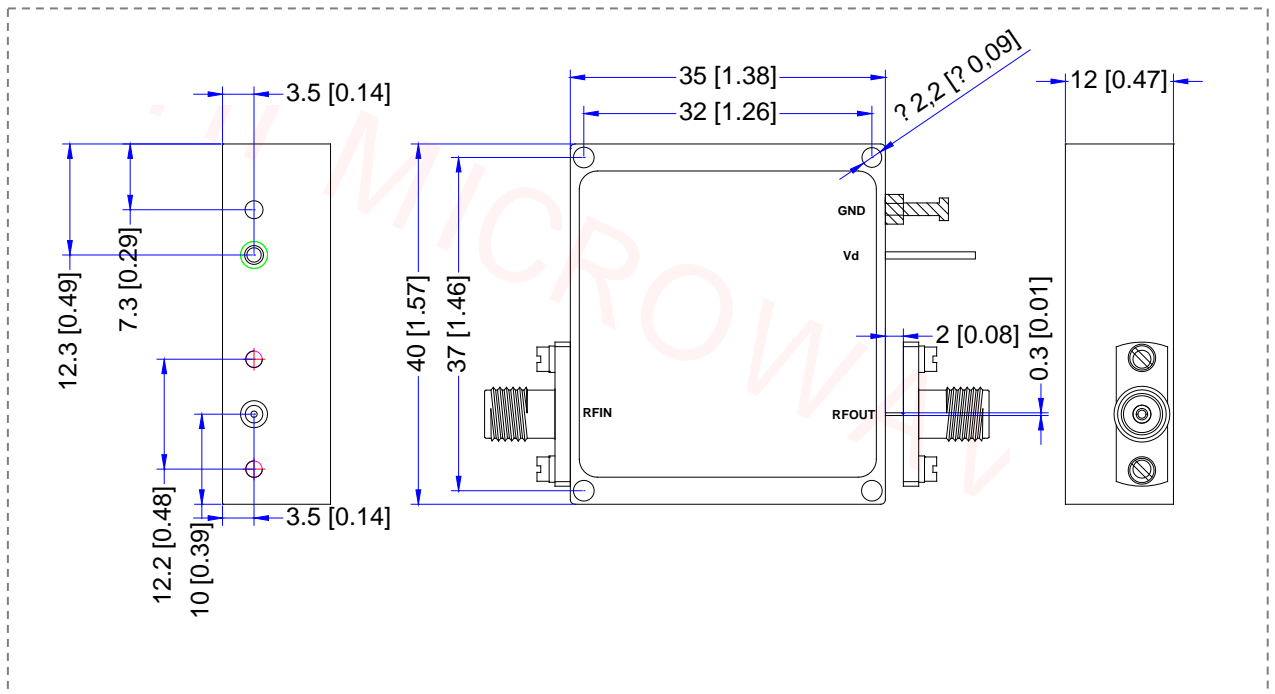
Supply Bias Voltage	+15V
RF INPUT POWER	-15dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Outline Drawing

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



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