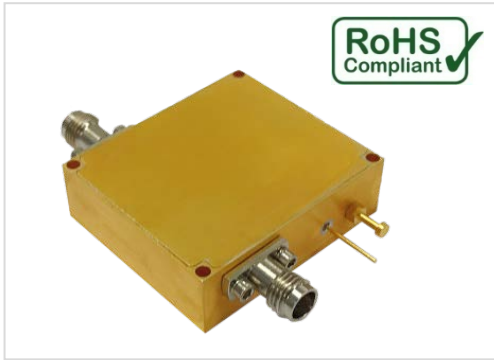


# MODEL HILNA02403040

## 2-40GHz Low Noise Amplifier



### ■ Features

- Ultra Broadband: 2-40GHz
- High Gain: 30dB
- P1dB Output Power: 18dBm
- High Output IP3: 27dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receiving Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max.	Units
Frequency Range	2-40			GHz
Gain		30		dB
Gain Flatness			±3.0	dB
Input VSWR			2.5	-
Output VSWR			2.5	-
Output Power for 1 dB Compression (P1dB)		18		dBm
Saturated Output Power (Psat)		20		dBm
Noise Figure		4	6	dB
OIP3		27		dBm
Input Max Power(no damage)			0	dBm
DC Current (VDC=+12V)		400		mA
Weight	60			g
Impedance	50			Ω
Input Connector	2.92mm Female			
Output Connector	2.92mm Female			
Material /Finishing	Aluminium/Gold Plated			
Package Sealing	General Sealing (Standard)			

### Environmental Conditions

Operational Temperature	-40°C~+75°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-202F	Humidity	100% RH at 35c, 95%RH at 40°C

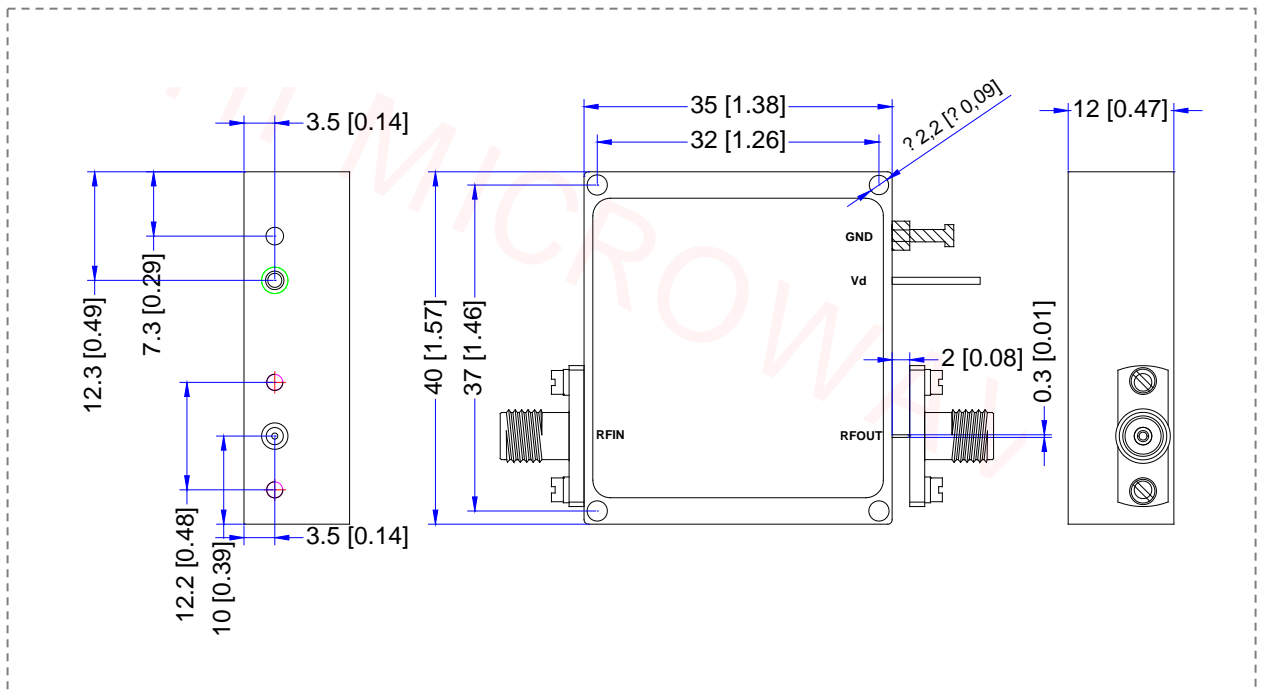
### Absolute Maximum Ratings

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



### Outline Drawing

All Dimensions in mm ( inches ) Tolerance  $\pm 0.25$  ( 0.01 )



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