

# MODEL HILNA40672560

## 39.9-67GHz Low Noise Amplifier



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

### ■ Features

- Ultra Wide Band: 39.9-67 GHz
- Gain: 30dB
- Output Power: 10dBm
- High Output IP3: 18dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	39.9-67			GHz
Gain	25	30		dB
Gain Flatness		±3		dB
Input VSWR		1.8	3	-
Output VSWR		1.5	1.8	-
Output Power for 1 dB Compression (P1dB)	10			dBm
Output Power Past		11		dBm
Noise Figure		5	6	dB
Output IP3		18		dBm
Input Max Power(no damage)			-10	dBm
DC Current (Vcc=+12V)		200		mA
Impedance	50			Ω
Input Output Connector	1.85-k			
Material	Aluminium\Gold Painting			
Weight	50g			
Package Sealing	General Sealing (Standard) Hermetically sealed(Optional)			

### Environmental Conditions

<b>Operational Temperature</b>	-45°C~+85°C	<b>Vibration</b>	25g rms (15 degree 2KHz) endurance, 1 hour per axis
<b>Storage Temperature</b>	-55°C~+125°C	<b>Shock</b>	20G for 11msc half sin wave, 3 axis both directions
<b>Executive Standard</b>	MIL-STD-810G	<b>Humidity</b>	100% RH at 35c, 95%RH at 40°C

### Absolute Maximum Ratings

<b>Supply Bias Voltage</b>	+15V
<b>RF INPUT POWER</b>	-10dBm
<b>ESD sensitivity (HBm)</b>	Class 0, passed 150V

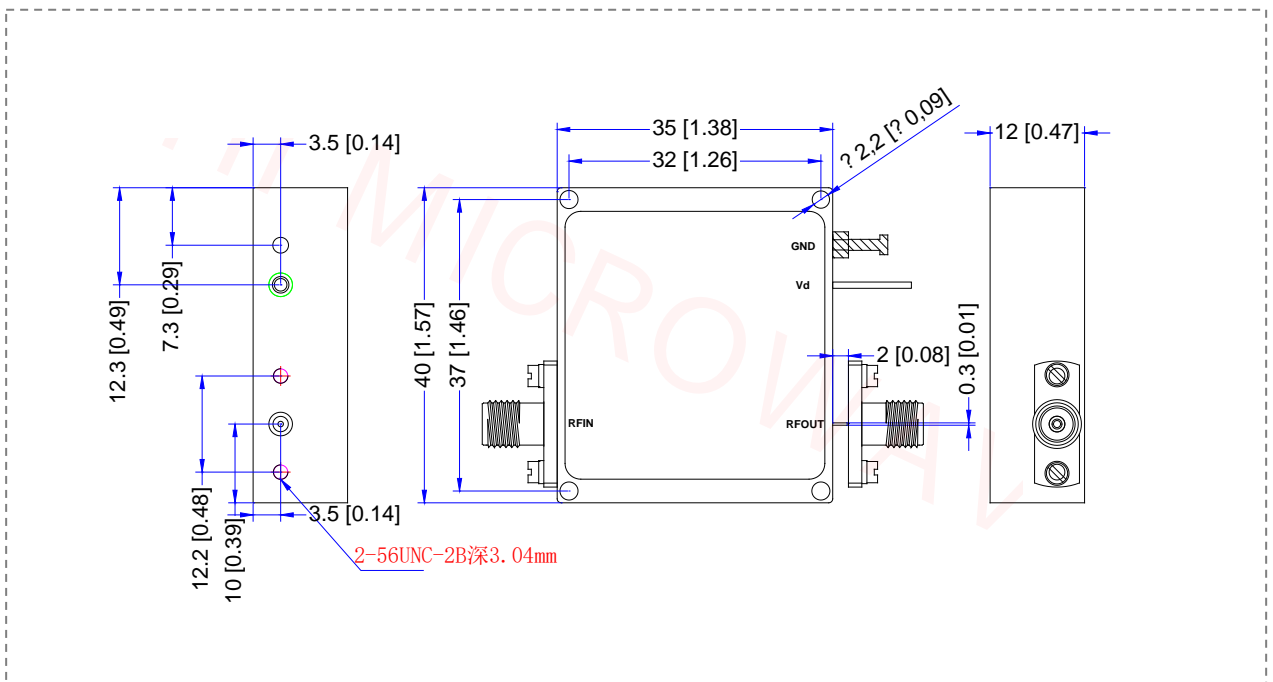


OBSERVE  
PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE  
DEVICES



### Outline Drawing

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



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