

# MODEL HILNAT5402850

## 0.5-40GHz Low Noise Amplifier



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

### ■ Features

- Ultra Wide Band: 0.5-40GHz
- Gain: 28dB
- Output Power: 20dBm
- High Output IP3: 30dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	0.5-40			GHz
Gain		28		dB
Gain Flatness		±2.5		dB
Input VSWR		2.0		
Output VSWR		2.0		
Output Power for 1 dB Compression (P1dB)		18		dBm
Saturated Output Power (Psat)		20		dBm
Noise Figure		5		dB
Spurious		-60		dBc
Input Max Power(no damage)			-5	dBm
DC Current (Vcc=8~12V)		250		mA
Impedance	50			Ω
Input Output Connector	2.92			
Material	Aluminium			
Weight	30g			
Size	40X35X12mm			
Package Sealing	General Sealing (Standard)			

### 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

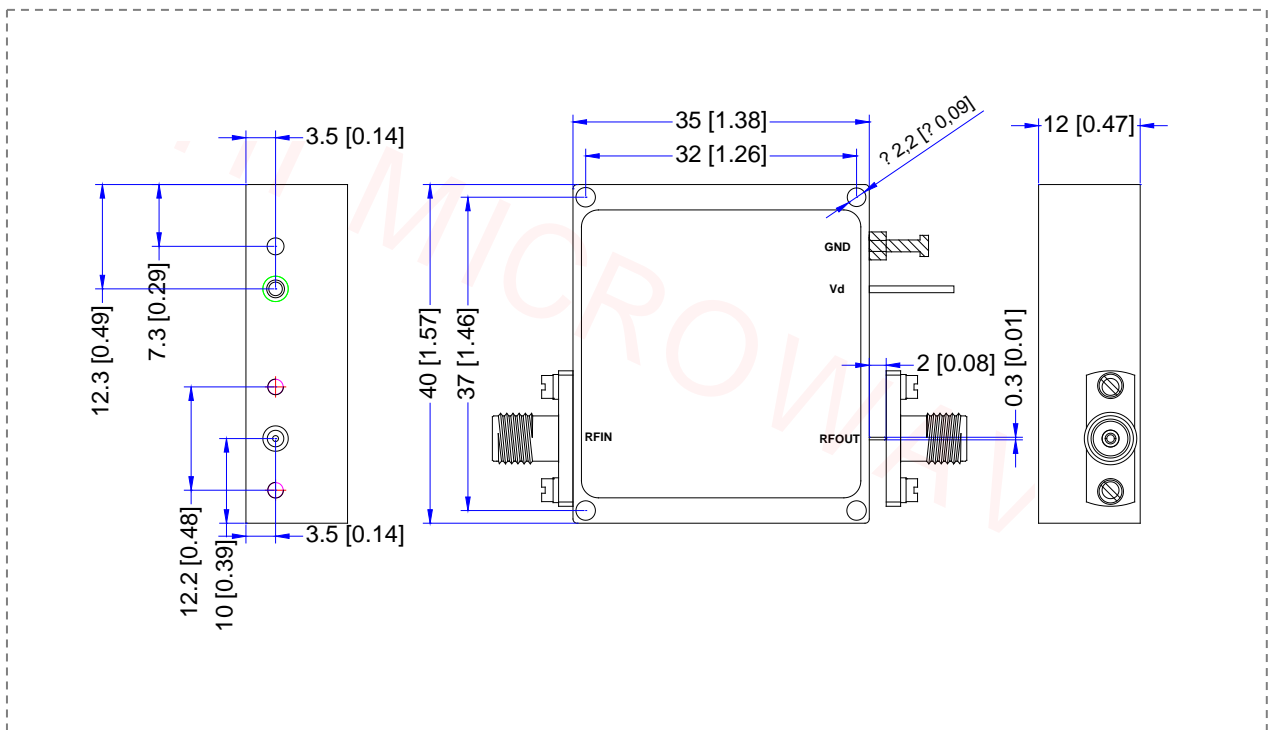
### Absolute Maximum Ratings

<b>Supply Bias Voltage</b>	+15V
<b>RF INPUT POWER</b>	-5dBm
<b>ESD sensitivity (HBm)</b>	Class 0, passed 150V



### Outline Drawing

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



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