

# MODEL HILNA24425035

## 24-42GHz Low Noise Amplifier



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

### ■ Features

- Ultra Wide Band: 24-40GHz
- Gain: 50dB
- Output Power: 20dBm
- High Output IP3: 30dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications


Parameter	Min.	Typ.	Max	Min.	Typ.	Max	Units
Frequency Range	28.15~28.35			24-42			GHz
Gain	50				50		dB
Gain Flatness			±0.5		±2		dB
Input VSWR		1.8			2.0		dB
Output VSWR		1.8			2.0		dB
Output Power for 1 dB Compression (P1dB)	20	21		20	21		dBm
Saturated Output Power (Psat)	21	22		21	22		dBm
Noise Figure		3.5			3.5		dB
Input Max Power(no damage)		-15			-15		dBm
DC Current (Vcc=+9~15V)		400			400		mA
Impedance	50						Ω
Input Output Connector	2.92						
Material	Aluminium/Gold Plated						
Weight	50g						
Size	40X35X12mm						
Package Sealing	General Sealing (Standard); Hermetically Seal(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>	+14V
<b>RF INPUT POWER</b>	-15dBm
<b>ESD sensitivity (HBm)</b>	Class 0, passed 150V

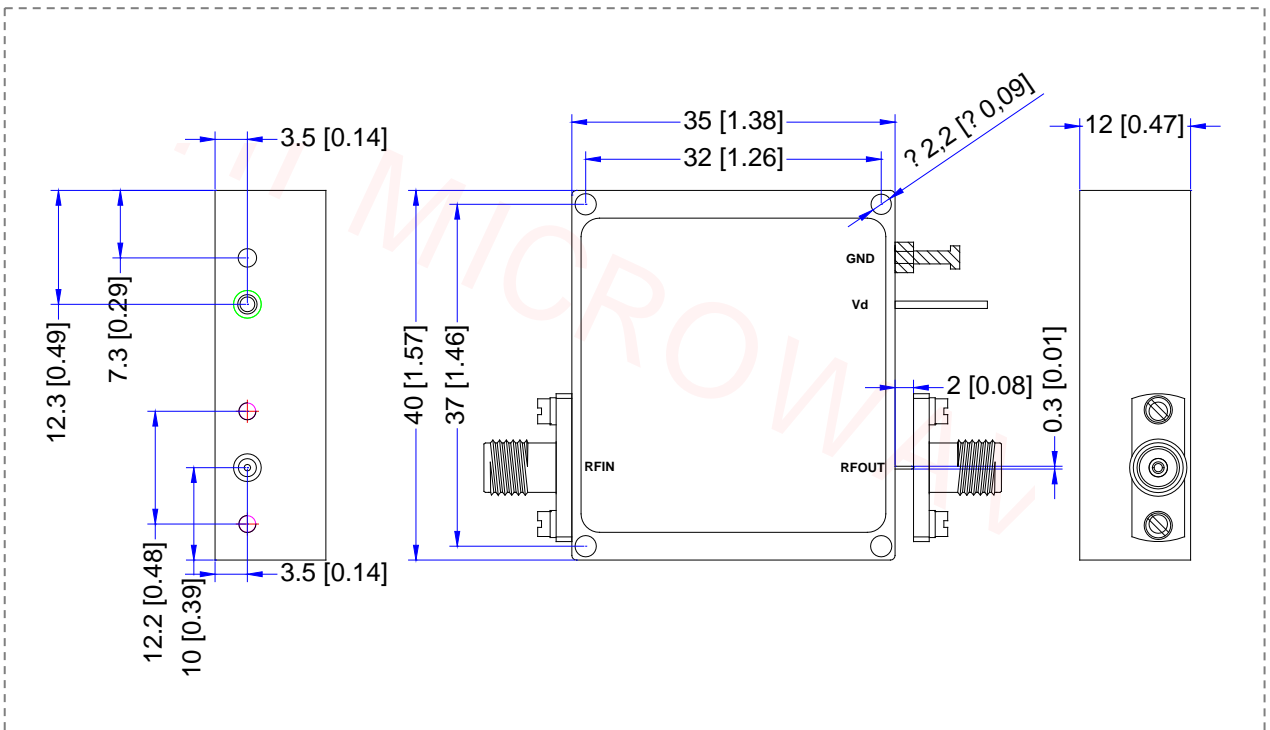


OBSERVE  
PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE  
DEVICES



### Outline Drawing

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



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