

# MODEL HILNA40672560

## 40-67GHz Broadband Amplifier



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

### ■ Features

- Ultra Broadband: 40~67GHz
- Low Noise Figure: 6dB
- High Gain: 30dB
- Output Power: 16dBm
- High OIP3: 23dBm
- Supply Voltage : +12V@ 160mA

### ■ Applications

- Radar Systems
- Communication Systems
- Receiving Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max.	Units
Frequency Range	40-67			GHz
Gain	25	30		dB
Gain Flatness		± 2.5		dB
Input VSWR		2.0		-
Output VSWR		2.0		-
Output Power for P1dB		16		dBm
Noise Figure		6		dB
OIP3		20		dBm
Input Max Power(no damage)			+15	dBm
DC Current (Vcc=+12V)		200		mA
Weight	50			g
Impedance	50			Ω
Input Connector	1.85(Removable)			
Output Connector	1.85(Removable)			
Material	Aluminum Gold Plating			
Package Sealing	General Sealing (Standard); Hermetically Seal(Optional)			

### 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

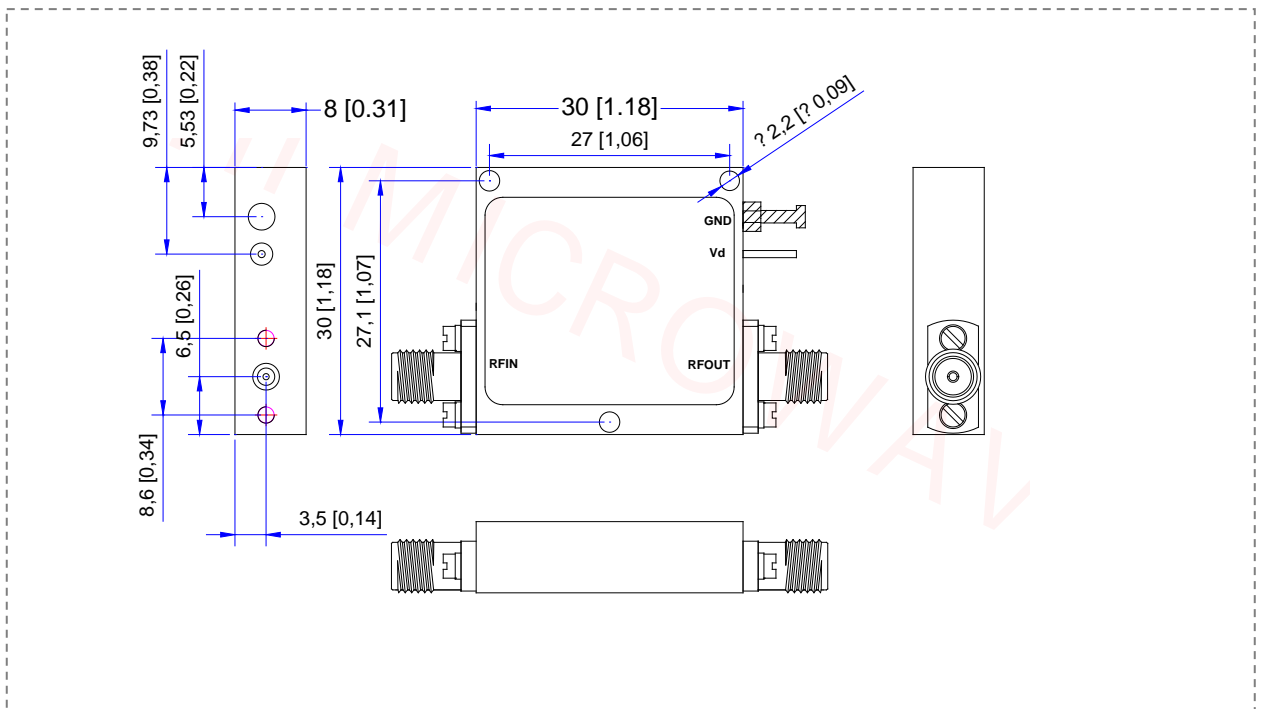
### Absolute Maximum Ratings

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



### Outline Drawing

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



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