

# MODEL HILNA40605060

## 40-60GHz Low Noise Amplifier



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

### ■ Features

- Ultra Wide Band: 40-60GHz
- Gain: 50dB
- Output Power: 10dBm
- High Output IP3: 18dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

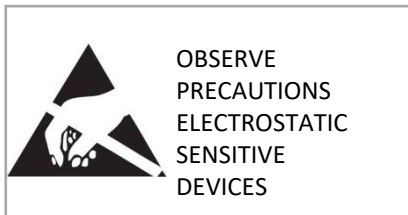
Parameter	Min.	Typ.	Max	Units
Frequency Range	40-60			GHz
Gain	50	52		dB
Gain Flatness		±2.5		dB
Input VSWR		2		-
Output VSWR		2		-
Output Power for (P1dB)		10		dBm
Output Power Past		10		dBm
Noise Figure		6		dB
Output IP3		18		dBm
Input Max Power(no damage)			-40	dBm
DC Current (Vcc=+12V)		240		mA
Impedance	50			Ω
Input Output Connector	1.85-K			
Material	Aluminium\Gold Painting			
Weight	50g			
Package Sealing	General Sealing (Standard)			

### 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

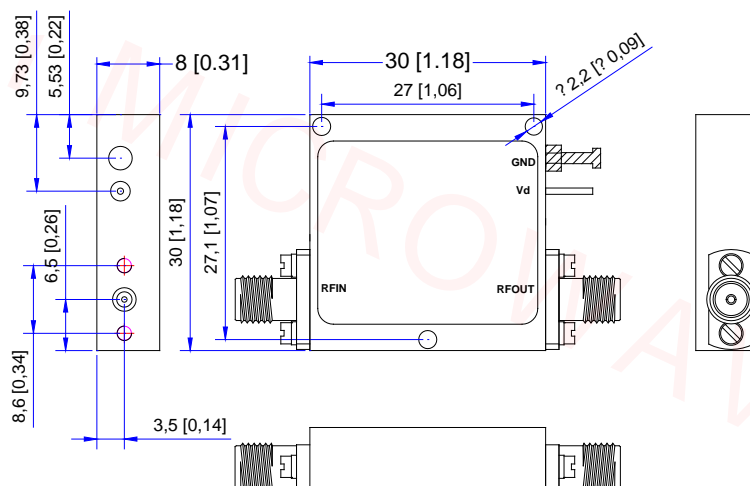
### Absolute Maximum Ratings

Supply Bias Voltage	+18V
RF INPUT POWER	-40dBm
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\*\*\***