

MODEL HILNA08182040

8-18GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 8-18GHz
- Gain: 22dB
- Output Power: 30dBm
- High Output IP3: 38dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications


| Parameter | Min. | Typ. | Max | Units |
|--|-----------------------------|------|------|-------|
| Frequency Range | 8~18 | | | GHz |
| Gain | 20 | | 22 | dB |
| Gain Flatness | | ±0.8 | ±1.0 | dB |
| Input VSWR | | 1.4 | 1.6 | |
| Output VSWR | | 1.4 | 1.6 | |
| Output Power for 1 dB | 27 | | | dBm |
| Saturated Output Power (P _{sat}) | 30 | | | dBm |
| Noise Figure | | | 4 | dB |
| OIP3 | 35 | 37 | | dBm |
| OIP2 | 43 | 45 | | dBm |
| Isolation | 26 | | | dB |
| Input Max Power(no damage) | | | 15 | dBm |
| DC Current (V _{cc} =+12V) | | 400 | | mA |
| Impedance | 50 | | | Ω |
| Input Output Connector | SMA-k/SMA-K | | | |
| Material | Aluminium/Gold | | | |
| 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 | 15V |
| RF INPUT POWER | +15dBm |
| ESD sensitivity (HBm) | Class 0, passed 150V |

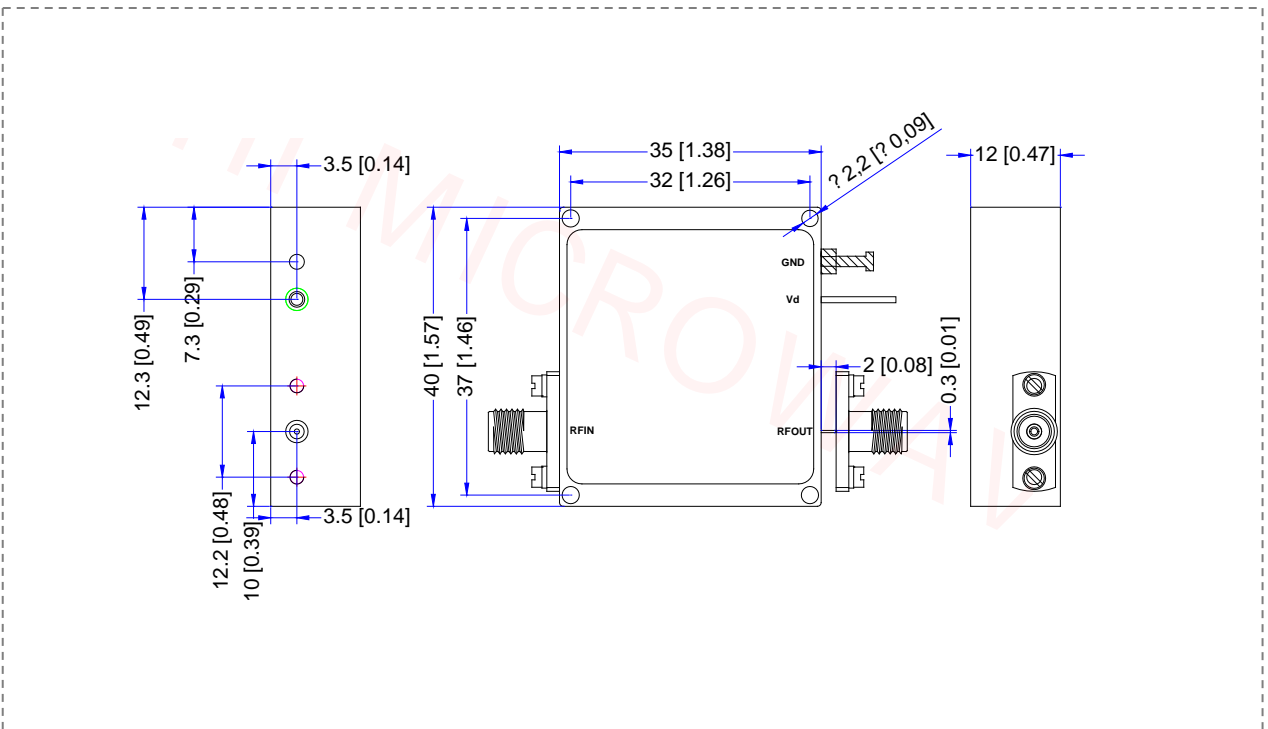


OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES



Outline Drawing

All Dimensions in mm (inches) Tolerance ± 0.25 (0.01)



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