

MODEL HILNA01401545

1-40GHz Broadband Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 1-40GHz
- Gain: 16dB
- Output Power: 20dBm
- High Output IP3: 30dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	1-40			GHz
Gain	15	17		dB
Gain Flatness		±1.5	±2	dB
Gain Variation Over Temperature		±1		dB
Input Return Loss		15	10	dB
Output Return Loss		15	10	dB
Output Power for 1 dB	18	20		dBm
Saturated Output Power (P _{sat})		21		dBm
Noise Figure		4.5	6	dB
OIP3		30		
Input Max Power(no damage)			+5	dBm
DC Current (V _{cc} =+12V)		280		mA
Impedance	50			Ω
Input Output Connector	2.92-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

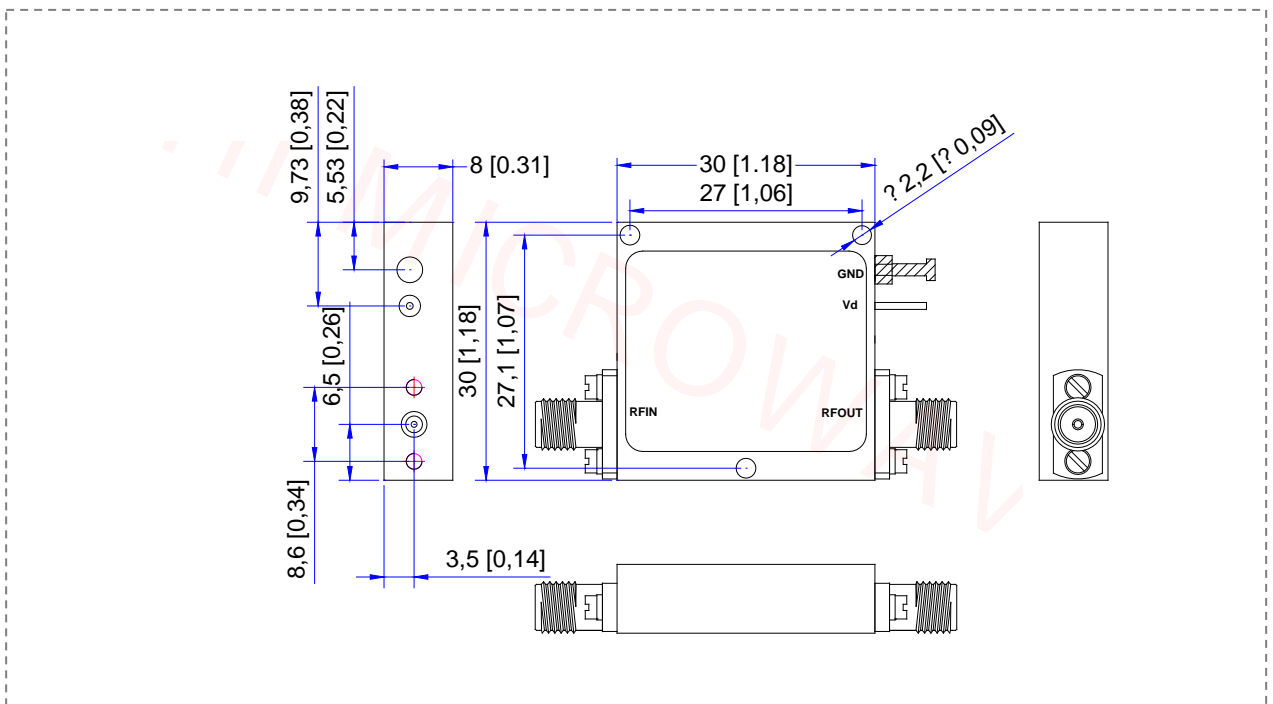
Absolute Maximum Ratings

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



Outline Drawing

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



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