

MODEL HILNAH1011515

0.01-1GHz Low Noise Amplifier



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

■ Features

- Wide Band: 0.01-1GHz
- Gain: 17dB
- Output Power: 17dBm
- High Output IP3: 35dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	0.01-1			GHz
Gain	15	16	17	dB
Gain Flatness (10~550MHZ)			±1	dB
Input VSWR			1.5	-
Output VSWR			1.5	-
Output Power for 1 dB	18		21	dBm
Saturated Output Power (Psat)		19		dBm
Noise Figure		1.5	2	dB
OIP3	27	30		
Input Max Power(no damage)			5	dBm
Reverse Isolation	25			dB
DC Current (Vcc=+12V)		140	150	mA
Impedance	50			Ω
Input Output Connector	SMA-k/SMA-K			
Material	Aluminium			
Weight	30g			
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

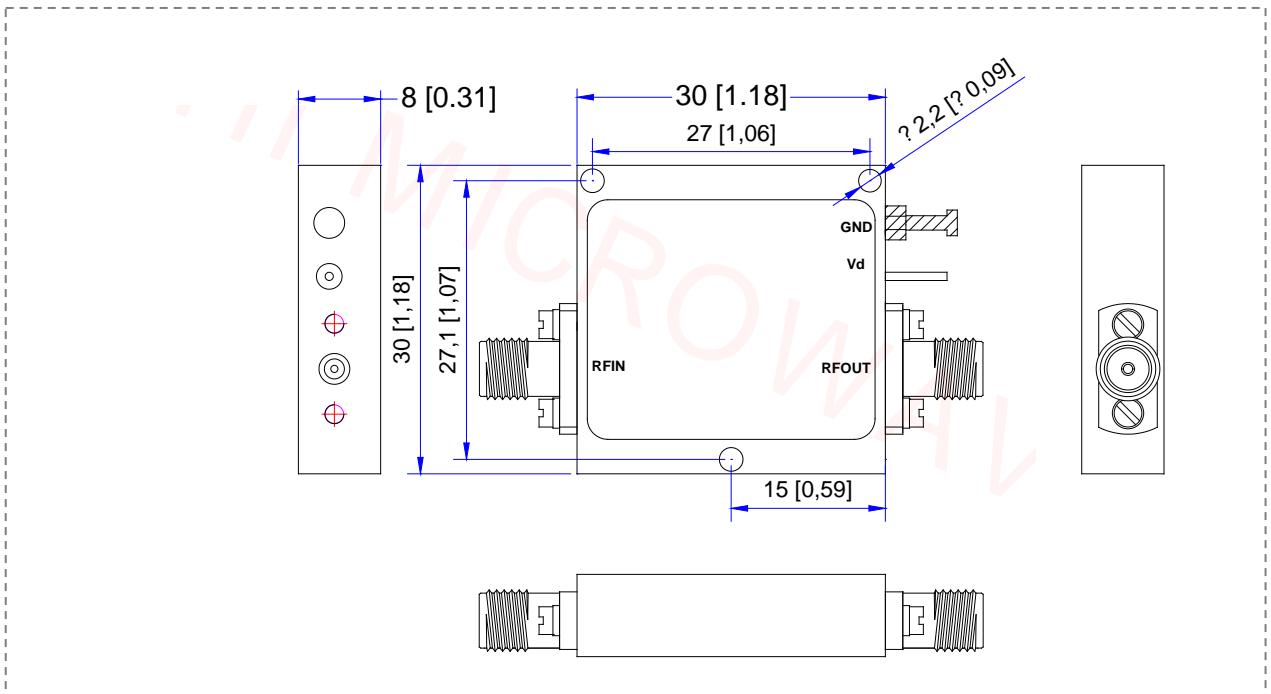
Absolute Maximum Ratings

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*****