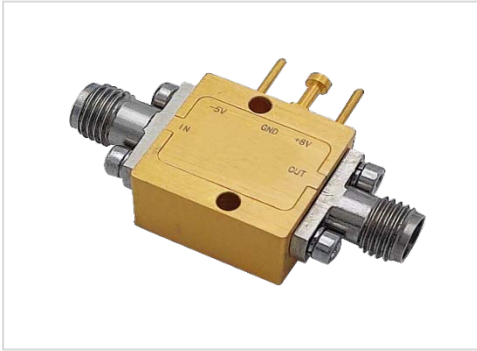


MODEL HILNAT4043008

0.4-3.5GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 0.4-3.5 GHz
- Gain: 30dB
- Output Power: 18dBm
- High Output IP3: 25dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

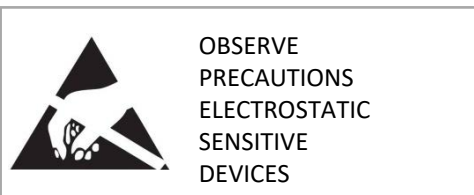
Parameter	Min.	Typ.	Max	Units
Frequency Range	0.4-3.5			GHz
Gain	30	31		dB
Gain Flatness		±0.5	±1.0	dB
Input VSWR		1.6	2.0	-
Output VSWR		1.6	2.0	-
Output Power for 1 dB	15	18		dBm
Saturated Output Power (Psat)		19		dBm
Noise Figure		0.8	1.2	dB
OIP3		25		dBm
Spurious		-60		dBc
Input Max Power(no damage)			10	dBm
Reverse Isolation		35		dB
DC Current (Vcc=+12V)		90	110	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

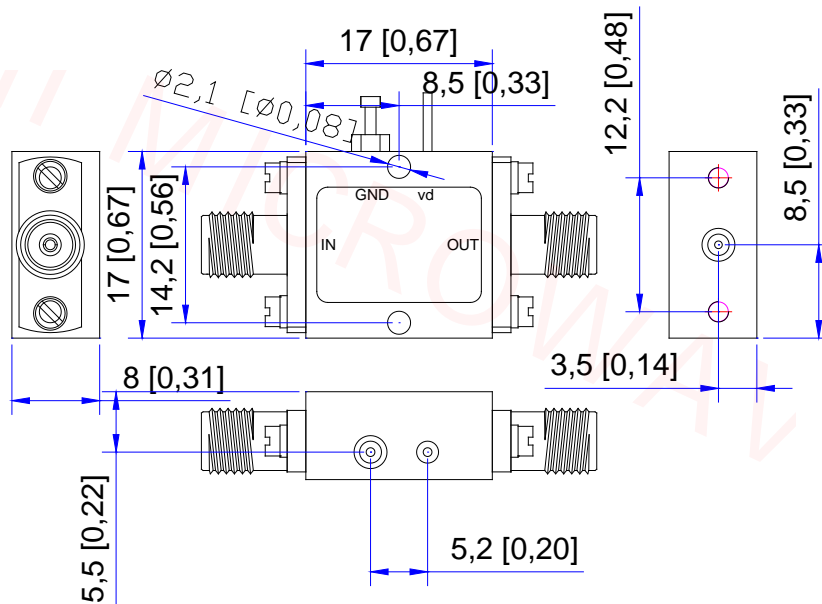
Absolute Maximum Ratings

Supply Bias Voltage	15V
RF INPUT POWER	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing

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



Heat Sink required during operation