

MODEL HILNAT1T93018

0.1-0.9GHz Low Noise Amplifier



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

■ Features

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

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

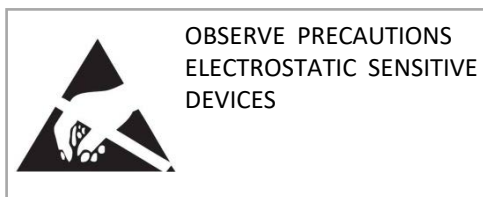
Parameter	Min.	Typ.	Max	Units
Frequency Range	0.1-0.9			GHz
Gain	30			dB
Gain Flatness (10~550MHZ)		±1.0	±1.5	dB
Input VSWR		1.5	2.0	-
Output VSWR		1.5	1.8	-
Output Power for 1 dB	20			dBm
Saturated Output Power (Psat)		21		dBm
Noise Figure		1.8	2.1	dB
OIP3		38		
Spurious		-60		dBc
Input Max Power(no damage)			0	dBm
Reverse Isolation		60		dB
DC Current (Vcc=+12V)		200	250	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

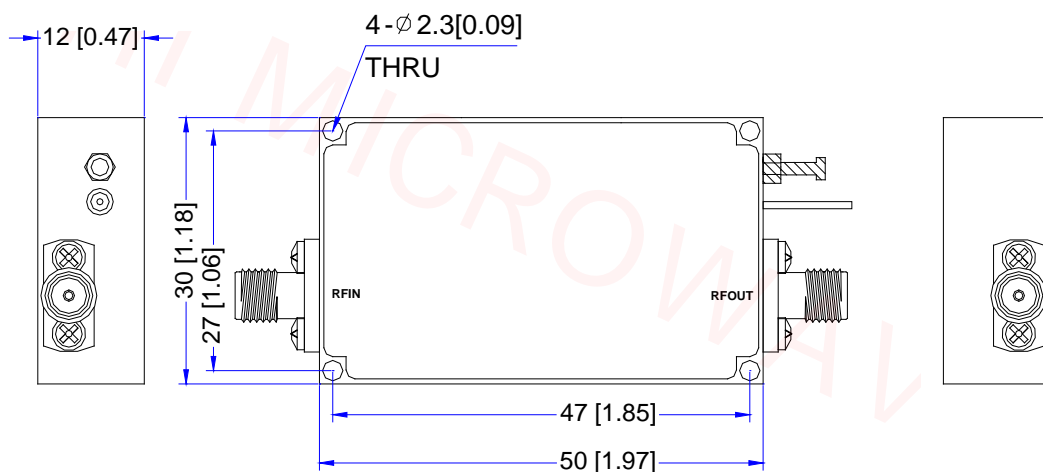
Absolute Maximum Ratings

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



Outline Drawing

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



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