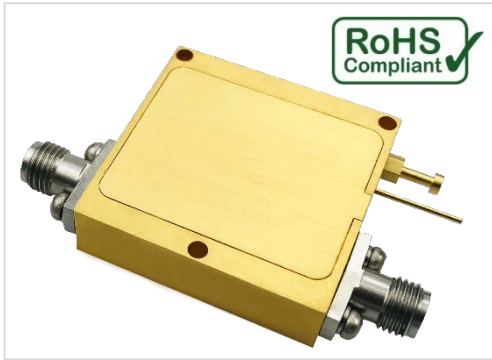


MODEL HILNA06184020

6-18GHz Broadband Low Noise Amplifier



■ Features

- Ultra Wide Band: 6-18GHz
- Gain: 40dB
- Output Power: 30dBm
- High Output IP3: 35dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems


□ Electrical Specifications

Parameter	Min.	Typ.	Max.	Units
Frequency Range	6-18			GHz
Gain		40		dB
Gain Flatness		±2.0		dB
Gain Variation Over Temperature		±1.5		dB
Input VSWR		1.4	2.0	-
Output VSWR		1.6	2.0	-
Output Power for 1 dB Compression (P1dB)	26	27		dBm
Output Power for Psat		31		dBm
Noise Figure		2.0	3.0	dB
OIP3		35		dBm
Input Max Power(no damage)			0	dBm
DC Current (Vcc=+12V)		450		mA
Impedance		50		Ω
Input Output Connector	SMA-K/SMA-K			
Material	Aluminium (Gold plated)			
Weight	50g			
Package Sealing	General Sealing (Standard);			

Environmental Conditions

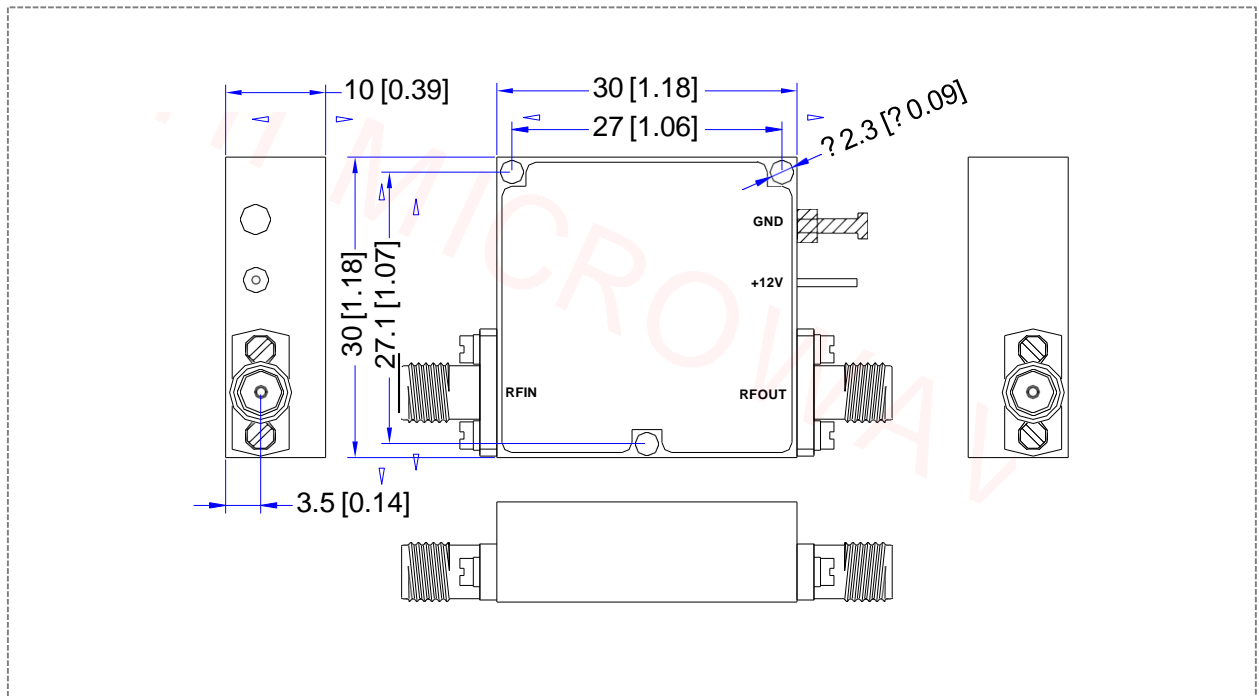
Operational Temperature	-45°C~+85°C	Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Storage Temperature	-55°C~+125°C	Shock	20G for 11msc half sin wave, 3 axis both directions
Executive Standard	MIL-STD-810G	Humidity	100% RH at 35c, 95%RH at 40°C

Absolute Maximum Ratings

Supply Bias Voltage	15V	 <p>OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES</p>
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*****



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■ Performance Plot (FIY)

