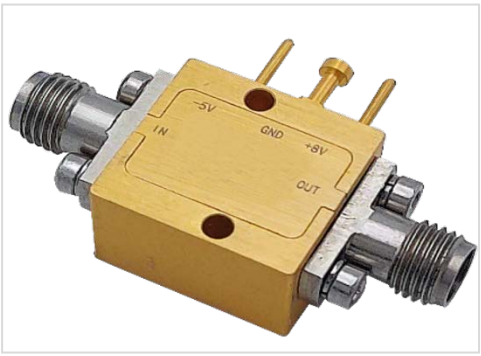
MODEL HILNA06201840
6-20GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 6-20GHz
- Gain: 20dB
- Output Power: 20dBm
- High Output IP3: 25dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

☐ Electrical Specifications

Parameter	Min.	Typ.	Max	Min.	Typ.	Max	Units
Frequency Range		6~13			13-20		GHz
Gain		21			18		dB
Gain Flatness		±1.5			±1.0		dB
Gain Variation Over Temperature		±1			±1		dB
Input VSWR		1.4	2.0		1.4	2.0	
Output VSWR		1.6	2.0		1.6	2.0	
Output Power for 1 dB		19			18		dBm
Saturated Output Power (Psat)		20			19		dBm
Noise Figure		4.5			4		dB
OIP3		25			25		
Input Max Power(no damage)			20			20	dBm
DC Current (Vcc=+12V)		120			120		mA
Impedance	50						Ω
Input Output Connector	SMA-k/SMA-K						
Material	Aluminium/Gold						
Weight	50g						
Package Sealing	General Sealing (Standard); Hermetically Seal(Optional)						

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☐ Environmental Conditions

Operational Temperature	-45℃~+85℃	**Vibration**	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Storage Temperature	-55℃~+125℃	**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℃

☐ Absolute Maximum Ratings

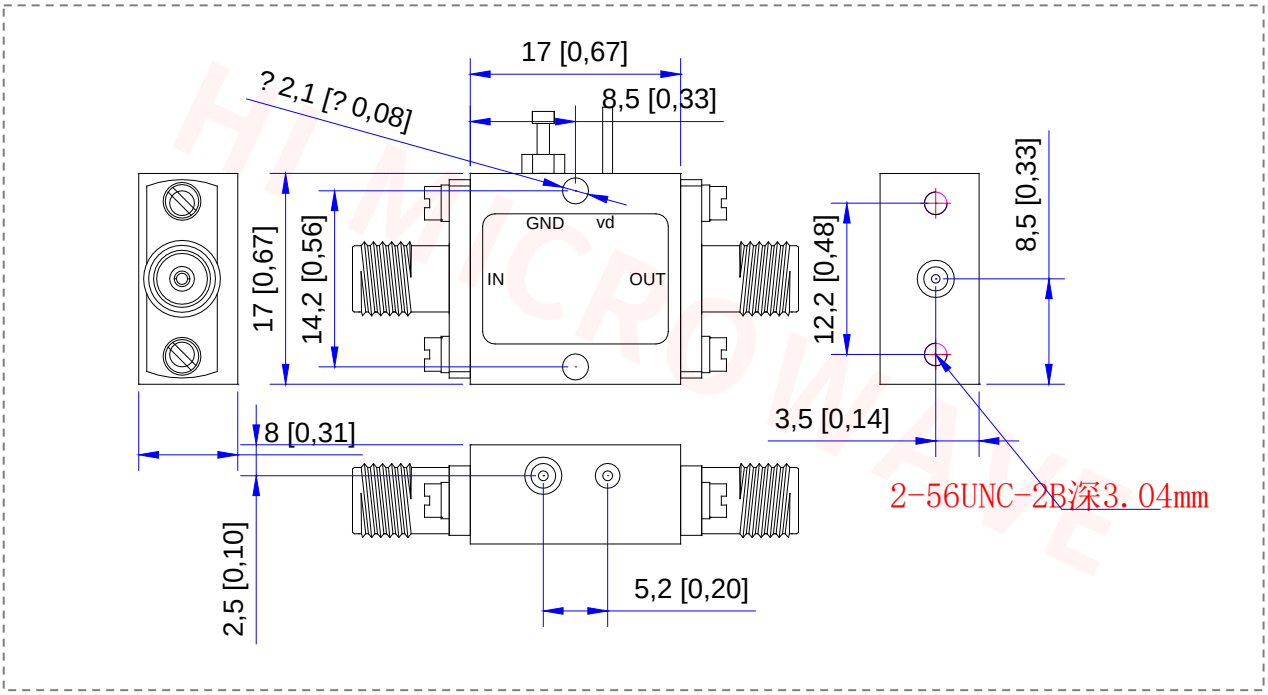
Supply Bias Voltage	18V
RF INPUT POWER	20dBm
ESD sensitivity (HBm)	Class 0, passed 150V

OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES

RoHS Compliant

☐ Outline Drawing

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



Heat Sink required during operation