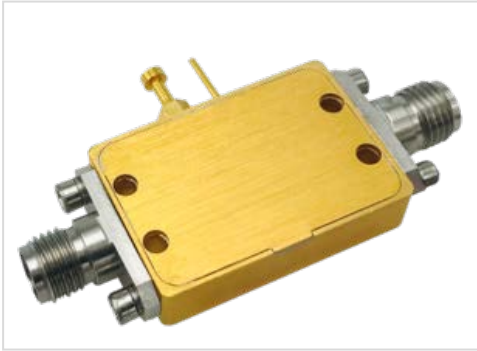


# MODEL HILNA15184017

## 15-18GHz Low Noise Amplifier



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

### ■ Features

- Ultra Wide Band: 15~18 GHz
- Gain: 40dB
- Output Power: 12dBm
- High Output IP3: 20dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	15~18			GHz
Gain	40		42	dB
Gain Flatness			±0.5	dB
Input VSWR		1.4	1.75	
Output VSWR		1.3	1.75	
Output Power for 1 dB	10			dBm
Noise Figure			1.7	dB
OIP3	20			dBm
Input Max Power(no damage)			75	mW
DC Current (Vcc=+12V)		100	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)			

### 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	12V
RF INPUT POWER	18dBm
ESD sensitivity (HBm)	Class 0, passed 150V

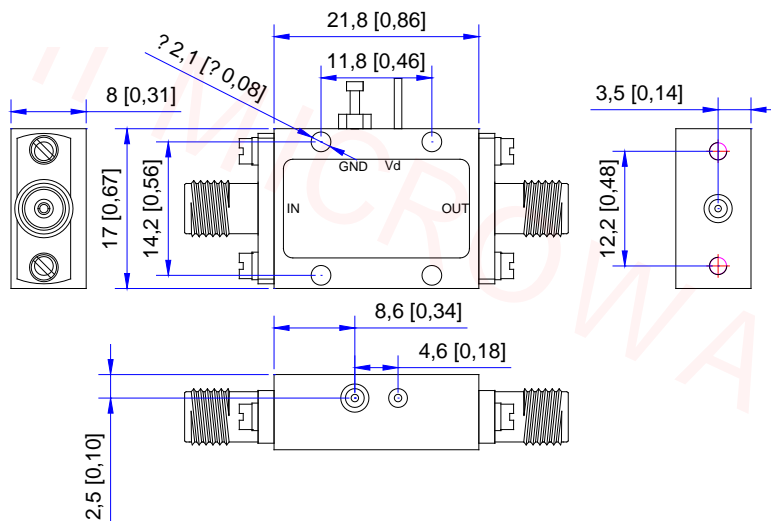


OBSERVE  
PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE  
DEVICES



### Outline Drawing

All Dimensions in mm ( inches ) Tolerance  $\pm 0.25$  ( 0.01 )



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