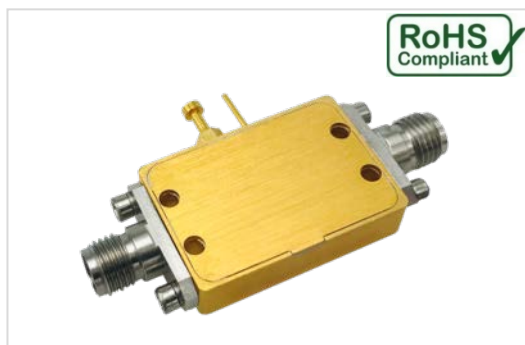


# MODEL HILNA17213019

## 17-21.2GHz Low Noise Amplifier



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

### ■ Features

- Ultra Wide Band: 17-21.2GHz
- Gain: 30dB
- Output Power: 6dBm
- High Output IP3: 14dBm

### ■ Applications

- Communication Systems
- Radar Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max.	Units
Frequency Range	17.0~21.2			GHz
Gain	30	35		dB
Gain Flatness		±1.5	±1.5	dB
Gain Variation Over Temperature (-40-+85 Deg C)		±1.0		
Input VSWR		1.6	2.0	-
Output VSWR		1.5	2.0	-
Output Power for 1 dB	6			dBm
Noise Figure		1.9	2.5	dB
Spurious		-60		dBc
Input Max Power(no damage)			-15	mW
DC Current (Vcc=+12V)		100	120	mA
Impedance	50			Ω
Input Output Connector	SMA-Female/SMA-Female			
Material/Finishing	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

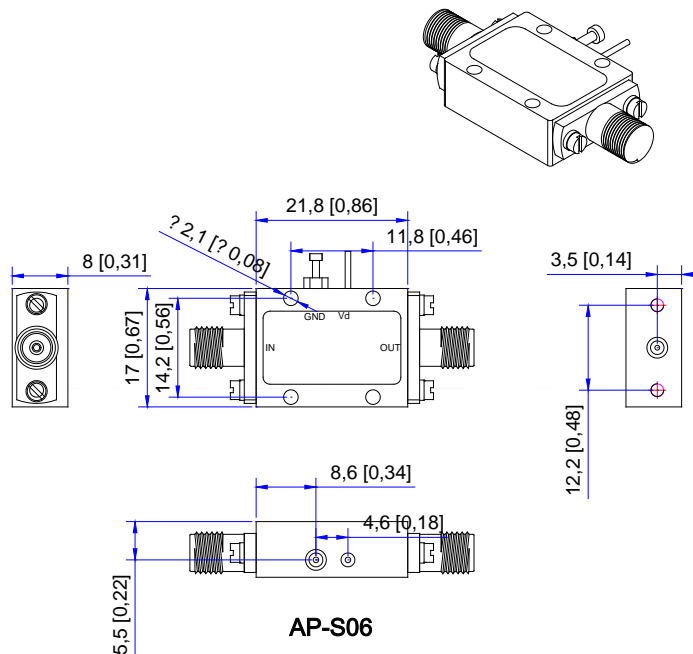
Supply Bias Voltage	15V
RF INPUT POWER	-15dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

### Outline Drawing

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



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