

# MODEL HILNAT1261860

## 0.1-26.5GHz Broadband Amplifier



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

### ■ Features

- Ultra Wide Band: 0.1-26.5GHz
- Gain: 18dB
- Output Power: 15dBm
- High Output IP3: 20dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	0.1-26.5			GHz
Gain	15	18		dB
Gain Flatness		±2	±3	dB
Input VSWR		1.8	2.0	-
Output VSWR		1.8	2.0	-
Output Power for (P1dB)		14		dBm
Output Power Past		15		dBm
Spourise		-60		dBc
Noise Figure		6		dB
Output IP3		20		dBm
Input Max Power(no damage)			+5	dBm
DC Current (Vcc=+12V)		200		mA
Impedance	50			Ω
Input Output Connector	SMA-K			
Material	Aluminium\Gold Painting			
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	+13V
RF INPUT POWER	5dBm
ESD sensitivity (HBm)	Class 0, passed 150V

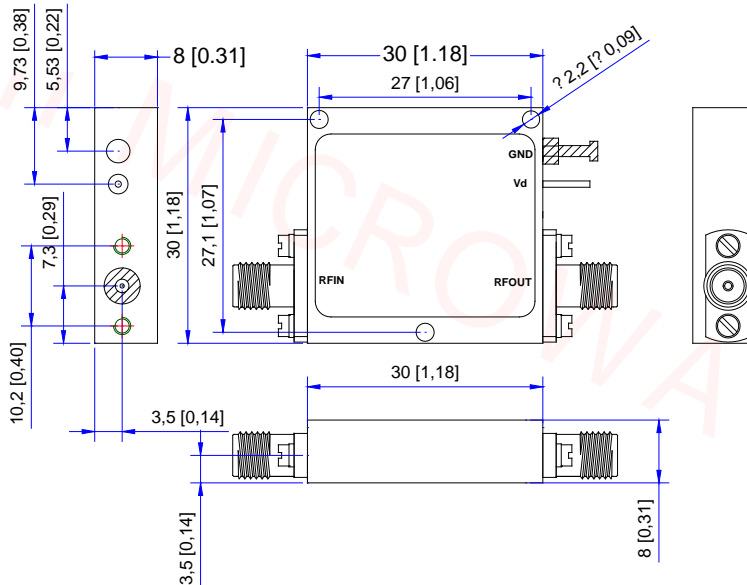


OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES



### Outline Drawing

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



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