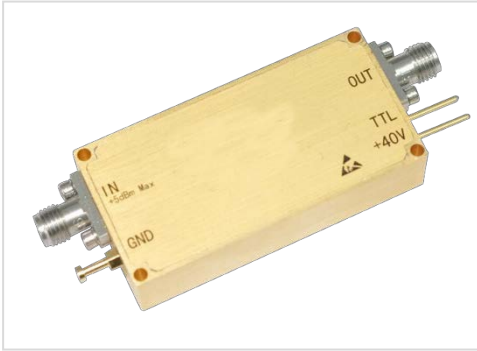


# MODEL HILNA08184425

## 8-18GHz Low Noise Amplifier



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

### ■ Features

- Ultra Wide Band: 8-18GHz
- Gain: 45dB
- Output Power: 25dBm
- High Output IP3: 32dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	8-18			GHz
Gain	44			dB
Gain Flatness		$\pm 2$		dB
Gain Variation Over Temperature		$\pm 1$		dB
Input VSWR		1.5		
Output VSWR		1.5		
Output Power for 1 dB	24			dBm
Saturated Output Power (Psat)		25		dBm
Noise Figure			2.5	dB
OIP3		32		
Input Max Power(no damage)			-15	dBm
Spurious			-60	dBc
DC Current (Vcc=+12V)		250		mA
Altitude(MIL-STD-810F)		40000		Feet
Impedance	50			$\Omega$
Input Output Connector	SMA-k/SMA-K			
Material	Aluminium/Gold			
Weight	50g			
Package Sealing	Hermetical Sealing (Laser seal welding)			

### 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-810F	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

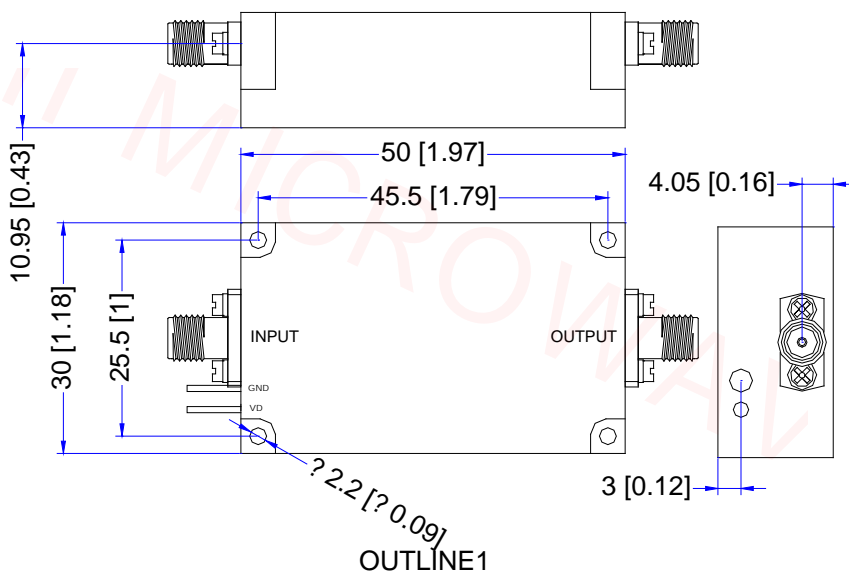


OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES



### Outline Drawing

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



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