

# MODEL HILNA17233520

## 17~23GHz Low Noise Amplifier



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

### ■ Features

- Ultra Wide Band: 17-23GHz
- Gain: 35dB
- Output Power P-1: 10dBm
- Supply Voltage : +12V@ 150mA

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range		17-23		GHz
Small Signal Gain		35		dB
Gain Flatness		± 1.5		dB
Input VSWR		1.6		-
Output VSWR		1.8		-
Output Power for 1 dB Compression (P1dB)	10			dBm
Input Max Power(no damage)			-10	dBm
OIP3		20		dBm
Noise Figure		2.0		dB
DC Current (Vcc=+6~12 V)		150		mA
Weight		50		g
Impedance		50		Ω
Input/ Output Connector		2.92-K		
Material		Aluminum		
Finishing		Gold Plated		
Dimension		1.20" (W) X 1.20" (L) X 0.50" (H)		

### Environmental Conditions

Operational Temperature	0°C~+50°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

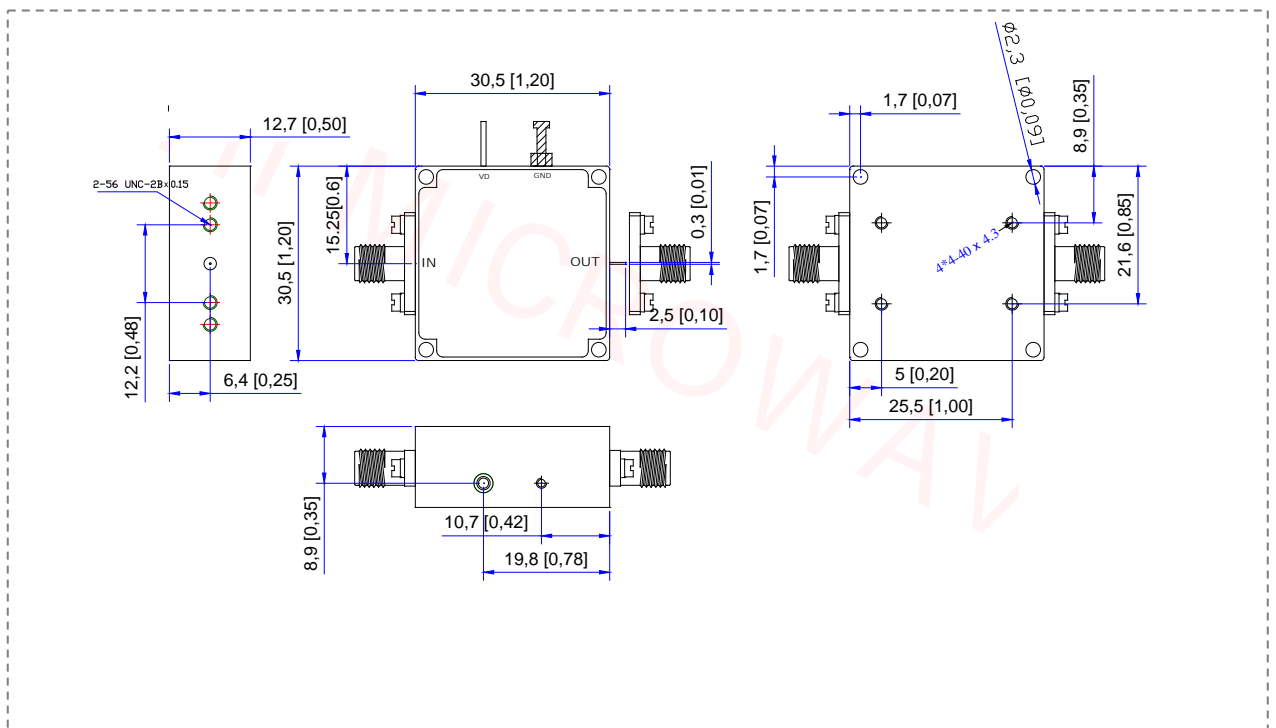
### Absolute Maximum Ratings

Supply Bias Voltage	15V
RF INPUT POWER	-10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



### Outline Drawing

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



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