

MODEL HILNA18404030

18-40GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 18-40GHz
- Gain: 40dB
- Output Power P-1: 10dBm
- Bias: Vd= +6~16V; Id= 200mA

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Min.	Typ.	Max	Units
Frequency Range	18-28			18-40			GHz
Small Signal Gain		40			40		dB
Gain Flatness		±1.5			±2.5		dB
Input VSWR		1.9			1.9		-
Output VSWR		1.9			1.9		-
Output Power for 1 dB Compression (P1dB)		10			10		dBm
Input Max Power(no damage)			-20			-20	dBm
Suprious		-60			-60		dBc
OIP3		20			20		dBm
Noise Figure		2.6	3.3		3.0	4.2	dB
DC Current (Vcc=+6~16 V)		200			200		mA
Weight	50						g
Impedance	50						Ω
Input/ Output Connector	2.92mm-Female						
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

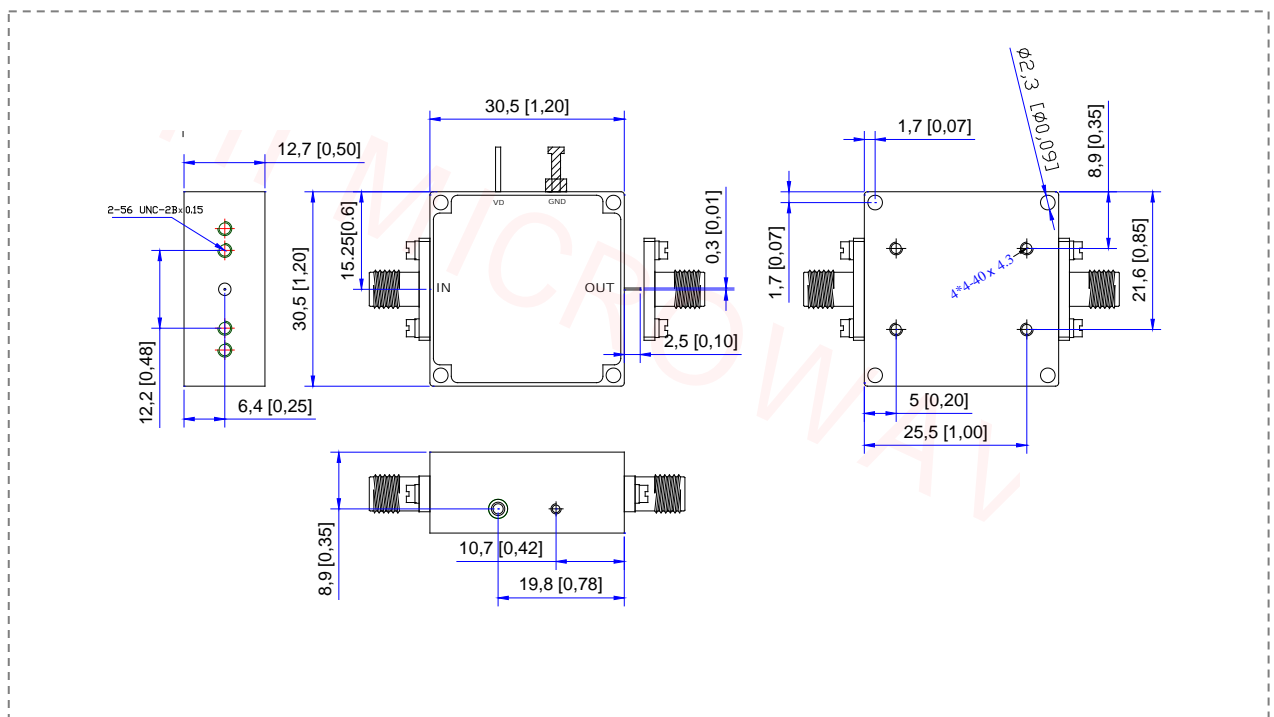
Supply Bias Voltage	16V
RF INPUT POWER	-20dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE
PRECAUTIONS
ELECTROSTATIC
SENSITIVE
DEVICES

Outline Drawing

All Dimensions in mm (inches) Tolerance ± 0.25 (0.01)



Heat Sink required during operation