

MODEL HILNA33501850

33-50GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 33-50GHz
- Gain: 18dB
- Output Power P-1: 13dBm
- Bias: Vd= +6~15V; Id= 120mA

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	33-50			GHz
Small Signal Gain		18		dB
Gain Flatness		±2		dB
Input VSWR		1.9		-
Output VSWR		1.4		-
Output Power for 1 dB Compression (P1dB)		13		dBm
Input Max Power(no damage)			+10	dBm
Suprious		-60		dBc
OIP3		20		dBm
Noise Figure		5		dB
DC Current (Vcc=+6~15 V)		120		mA
Weight	36.9			g
Impedance	50			Ω
Input/ Output Connector	2.4mm-Female			
Material	Aluminum			
Finishing	Gold Plated			
Dimension	1.20" (W) 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

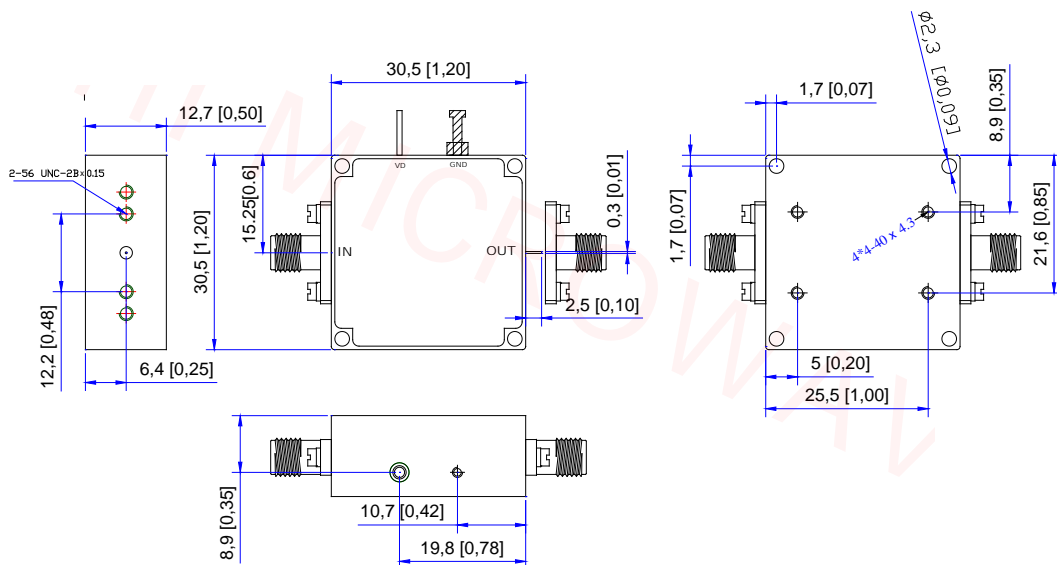
Supply Bias Voltage	16V
RF INPUT POWER	+10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE
PRECAUTIONS
ELECTROSTATIC
SENSITIVE
DEVICES

Outline Drawing

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



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