

MODEL HILNA47512540

47-51.5GHz Low Noise Amplifier



■ Features

- Ultra Wide Band: 47-51.5GHz
- Gain: 25dB
- Output Power P-1: 12dBm
- Bias: Vd= +6~15V; Id= 130mA

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	47-51.5			GHz
Small Signal Gain		25		dB
Gain Flatness		±2		dB
Input VSWR		1.9		-
Output VSWR		1.9		-
Output Power for 1 dB Compression (P1dB)		12		dBm
Input Max Power(no damage)			0	dBm
Suprious		-60		dBc
OIP3		20		dBm
Noise Figure		4.0		dB
DC Current (Vcc=+6~15 V)		130		mA
Weight	36.9			g
Impedance	50			Ω
Input/Output Connector	2.4mm-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

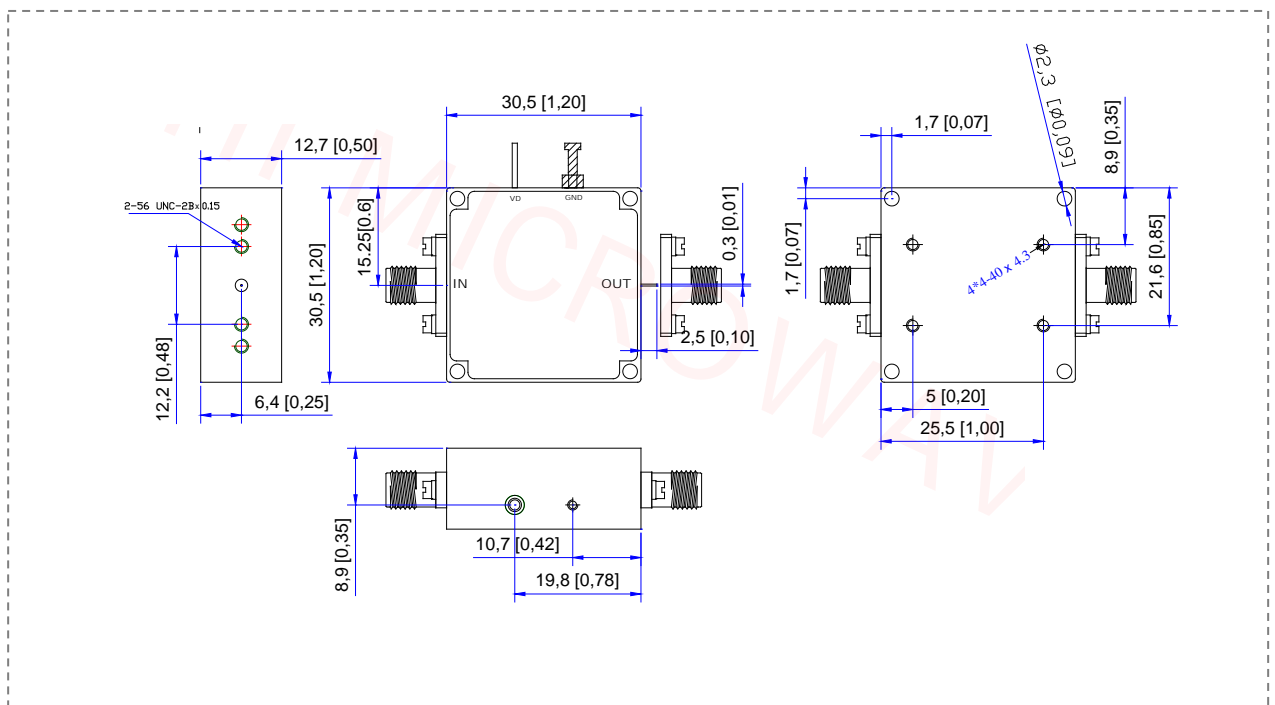
Supply Bias Voltage	16V
RF INPUT POWER	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE
PRECAUTIONS
ELECTROSTATIC
SENSITIVE
DEVICES

Outline Drawing

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



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