

MODEL HILNA40453540

40-45GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 40-45GHz
- Gain: 35dB
- Output Power P-1: dBm
- Bias: Vd= +6~12V; Id= 100mA

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range		40-45		GHz
Small Signal Gain		35		dB
Gain Flatness		±2		dB
Input VSWR		2.3		-
Output VSWR		2.3		-
Output Power for 1 dB Compression (P1dB)		10		dBm
Input Max Power(no damage)			+10	dBm
Suprious		-60		dBc
OIP3		18		dBm
Noise Figure		4		dB
DC Current (Vcc=+6~12 V)		100		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

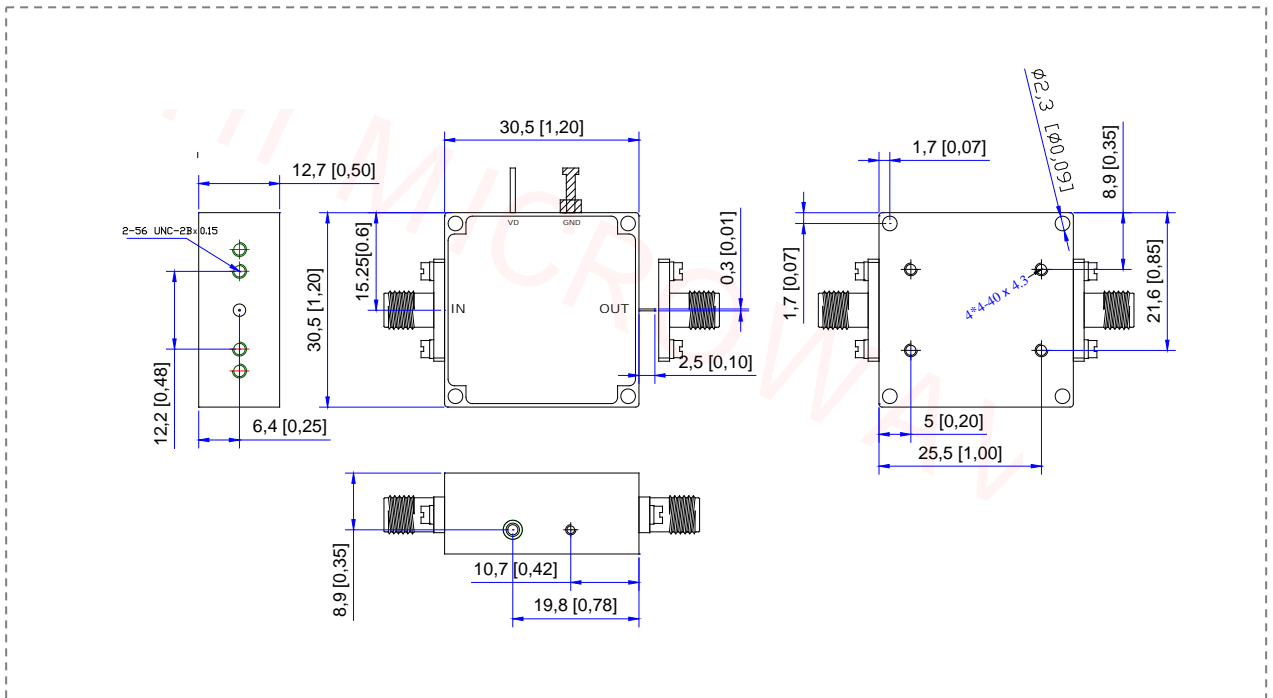
Absolute Maximum Ratings

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



Outline Drawing

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



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