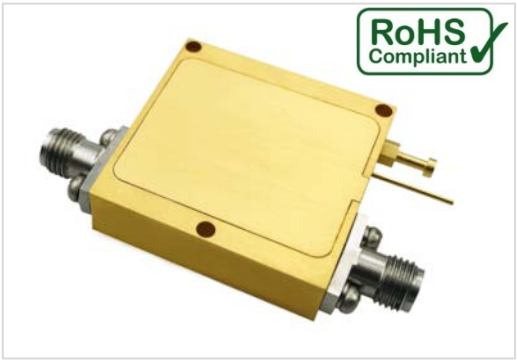
MODEL HILNA40603050
40-60GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 40-60GHz
- Gain: 30dB
- Output Power P-1: 16dBm
- Bias: Vd= +6~15V; Id= 500mA

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

☐ Electrical Specifications

Parameter	Min.	Typ.	Max	Min.	Typ.	Max	Units
Frequency Range		40-50			50-60		GHz
Small Signal Gain	30	38		30	38		dB
Gain Flatness		±2.5			±2.5		dB
Input VSWR		2			2		-
Output VSWR		2			2		-
Output Power for 1 dB Compression (P1dB)		17			16		dBm
Input Max Power(no damage)			+15			+15	dBm
Suprious		-60			-60		dBc
OIP3		25			25		dBm
Noise Figure(40-50 GHz)		5			5		dB
DC Current (Vcc=+6~15 V)		500			500		mA
Weight	36.9						g
Impedance	50						Ω
Input/ Output Connector	V-Female						
Material	Aluminum						
Finishing	Gold Plated						
Dimension	1.20” (W) 1.20” (L) X 0.50” (H)						

MODEL HILNA40603050
40-60GHz Low Noise Amplifier

☐ Environmental Conditions

Operational Temperature	0℃~+50℃	**Vibration**	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Storage Temperature	-55℃~+125℃	**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℃

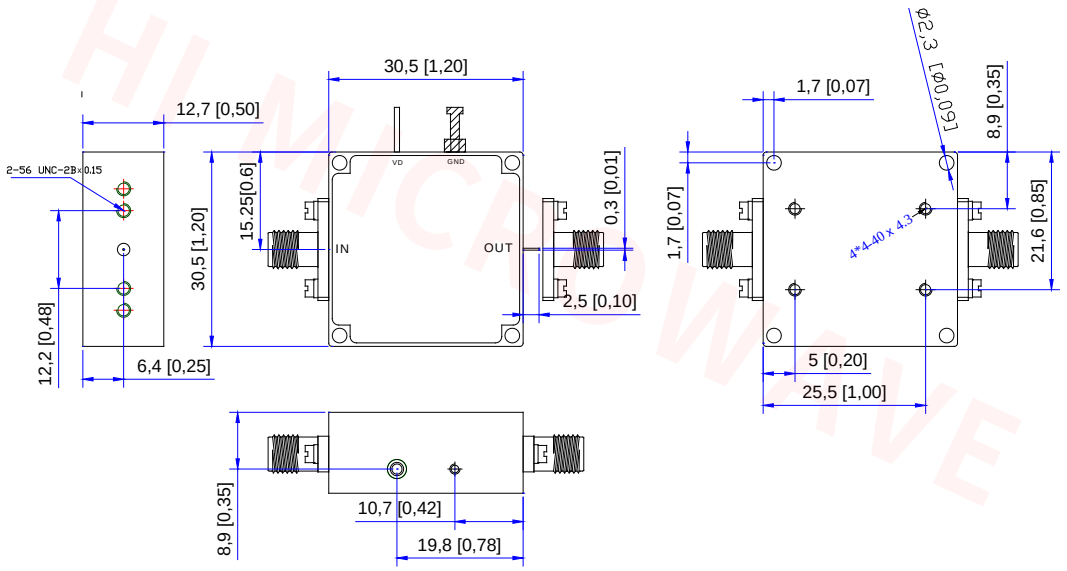
☐ Absolute Maximum Ratings

Supply Bias Voltage	16V
RF INPUT POWER	+15dBm
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