

MODEL HILNA17404040

17.5-40GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 17.5-40GHz
- Gain: 40dB
- Output Power: 22dBm
- High Output IP3: 30dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	17.5-40			GHz
Gain	38	41		dB
Gain Flatness		±2.0		dB
Input VSWR		2.0		-
Output VSWR		2.0		-
Output Power for 1 dB Compression (P1dB)	18	20		dBm
Output Power Past		21		dBm
Noise Figure		4.0	6	dB
Output IP3		30		dBm
Input Max Power(no damage)			-10	dBm
DC Current (Vcc=+6V~16V)		350	450	mA
Impedance	50			Ω
Input Output Connector	2.92-k			
Material	Aluminium\Gold Painting			
Weight	50g			
Package Sealing	General Sealing (Standard)			

Environmental Conditions

Operational Temperature	-45°C~+85°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	+20V
RF INPUT POWER	-10dBm
ESD sensitivity (HBm)	Class 0, passed 150V

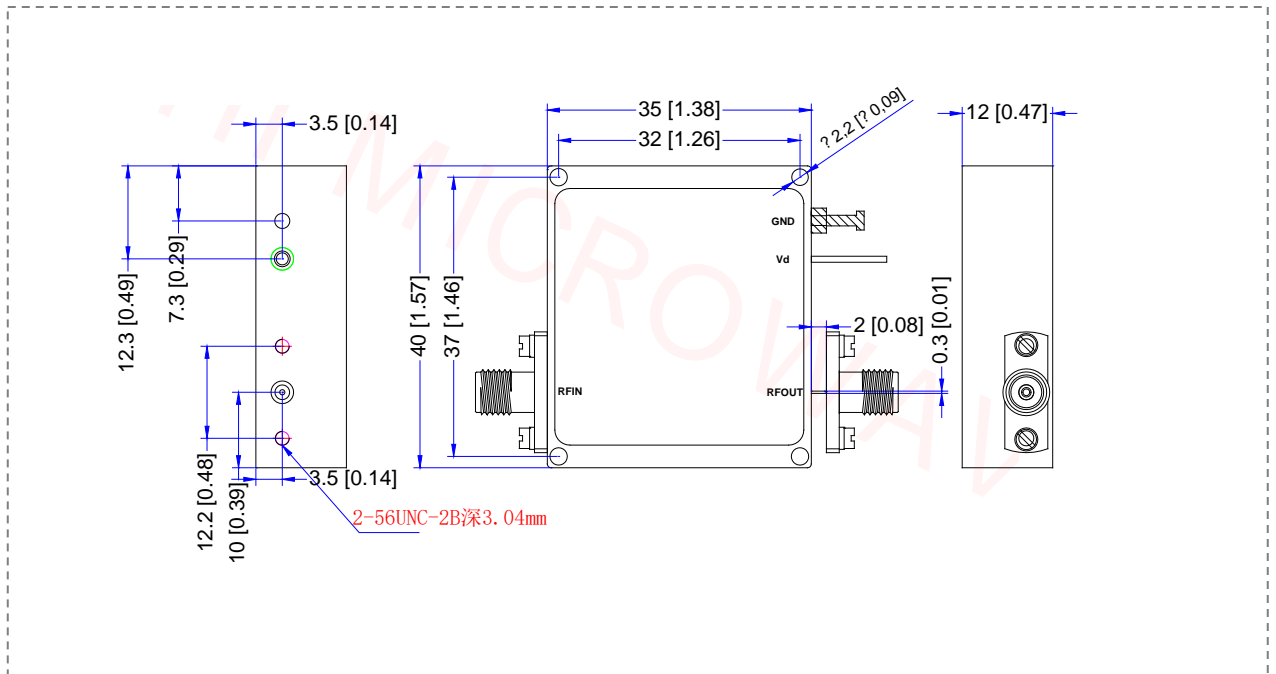


OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES



Outline Drawing

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



Heat Sink required during operation