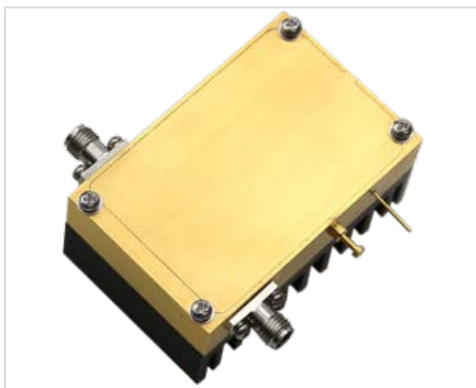


MODEL HILNAT5404050

0.5-40GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 0.5-40GHz
- Gain: 40dB
- Output Power: 20dBm
- High Output IP3: 28dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	0.5-40			GHz
Gain		43		dB
Gain Flatness		±5		dB
Gain Variation Over Temperature		±1		dB
Input VSWR		8		dB
Output VSWR		8		dB
Output Power for 1 dB Compression (P1dB)		18		dBm
Saturated Output Power (Psat)		21		dBm
Noise Figure		5		dB
Input Max Power(no damage)			-5	dBm
DC Current (Vcc=8~12V)		650		mA
Impedance	50			Ω
Input Output Connector	2.92			
Material	Aluminium			
Weight	30g			
Size	32X45X13.5mm			
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

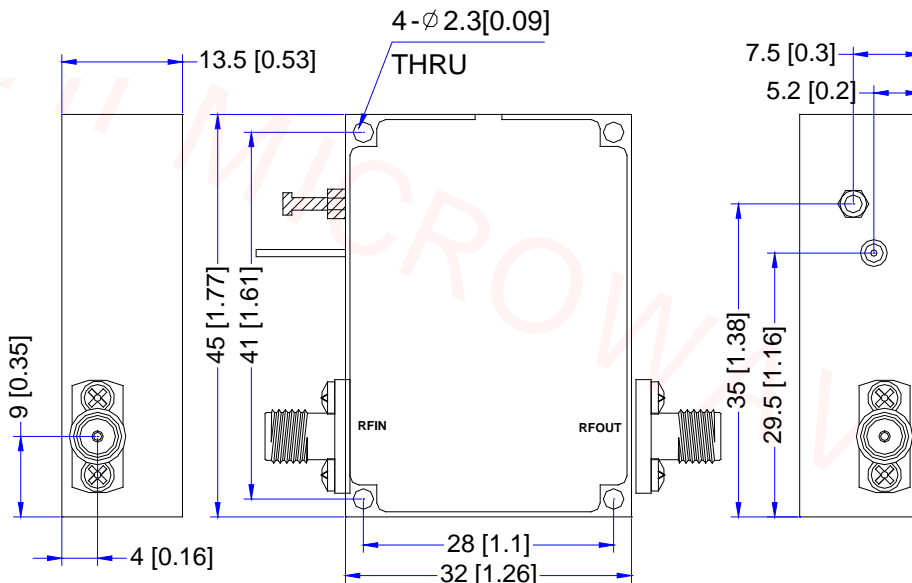
Absolute Maximum Ratings

Supply Bias Voltage	+15V
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*****