

MODEL HILNAT1043020

0.1-4GHz Low Noise Amplifier



■ Features

- Ultra Wide Band: 0.1-4GHz
- Gain: 33dB
- High P1dB : 25dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max.	Units
Frequency Range	0.1-4			GHz
Gain	29	30	33	dB
Gain Flatness			1.8 ±0.5@100MHz	dB
Input VSWR			1.7	-
Output VSWR			2	-
Output Power for (P1dB)	25			dBm
Noise Figure			2	dB
DC Current (Vcc=+15V)		500		mA
Impedance	50			Ω
Input Output Connector	SMA female			
Material	Aluminium\Gold Plating			
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

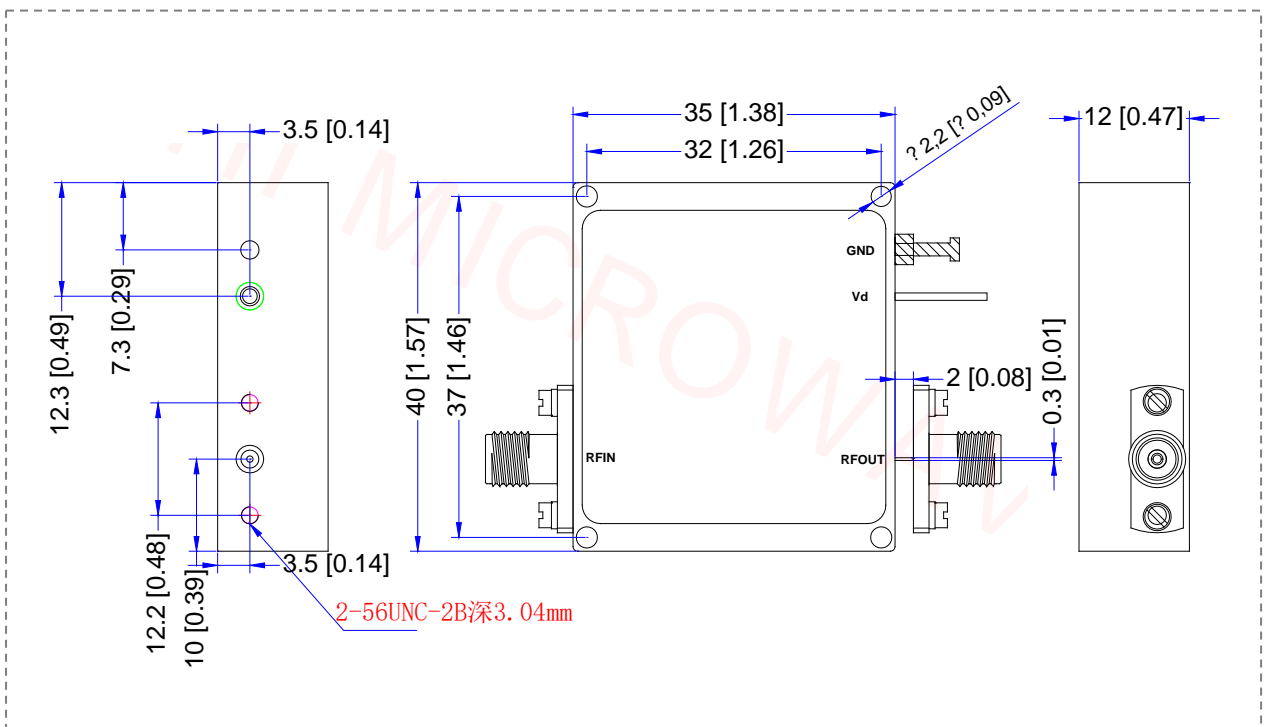
Supply Bias Voltage	+18V
RF INPUT POWER	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Outline Drawing

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



Heat Sink required during operation