

MODEL HILNAK1182545

0.001-18GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 0.001-18GHz
- Gain: 25dB
- Output Power: 15dBm
- High Output IP3: 25dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Min.	Typ.	Max	Units
Frequency Range	0.001-12			12-18			GHz
Gain	25	28		24	28		dB
Gain Flatness		±2	±2.5		±1.5	±2.0	dB
Input VSWR		1.8	2		1.8	2	-
Output VSWR		1.8	2		1.8	2	-
Output Power for (P1dB)	14	15		14	15		dBm
Output Power Past		16			16		dBm
Noise Figure	≤6dB@0.001~0.5GHz ≤4.5dB@0.5~12GHz				4	4.5	dB
Output IP3		25			25		dBm
Input Max Power(no damage)			-5			-5	dBm
DC Current (Vcc=+12V)		120			120		mA
Impedance	50						Ω
Input Output Connector	SMA-k						
Material	Aluminium\Gold Painting						
Weight	50g						

Environmental Conditions

Operational Temperature	-25°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

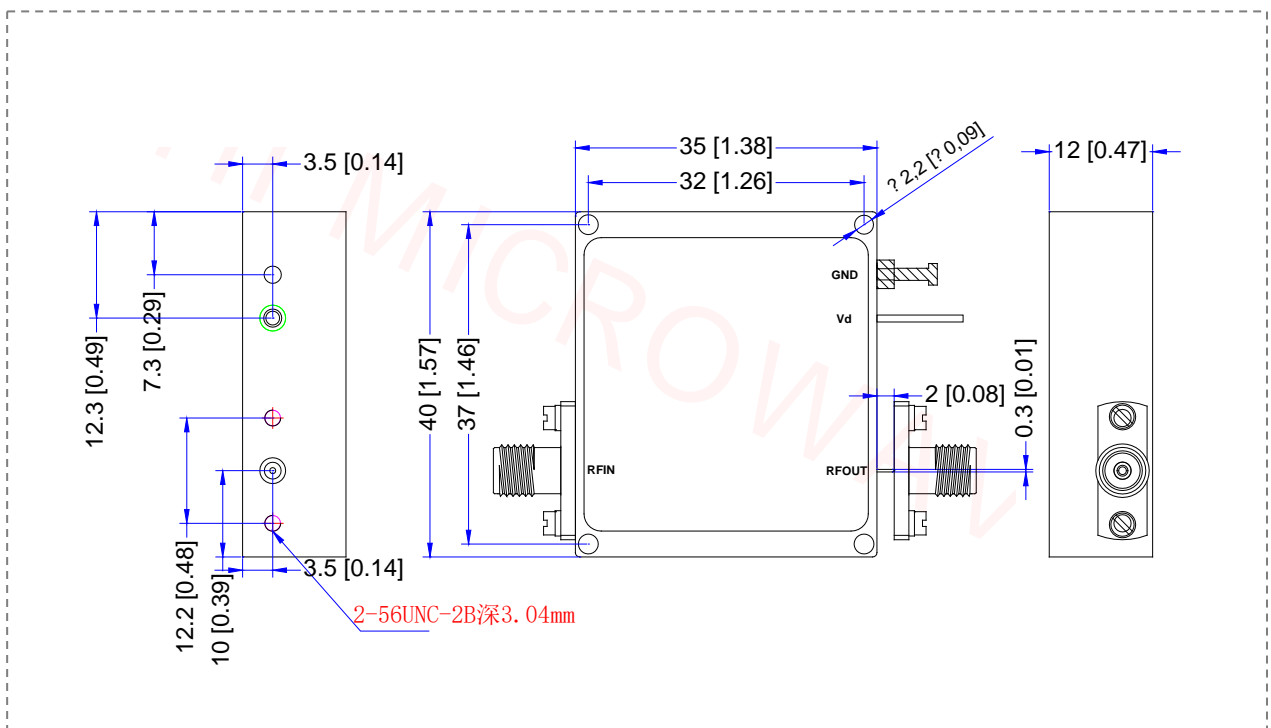
Absolute Maximum Ratings

Supply Bias Voltage	+18V
RF INPUT POWER	-5dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing

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



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