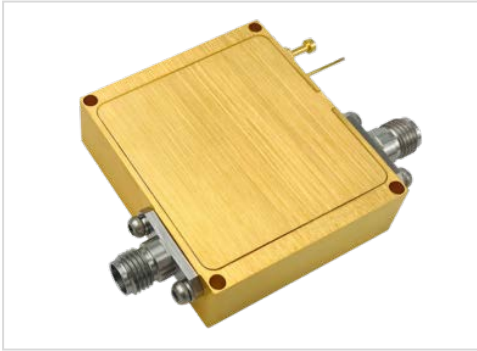


MODEL HIPA01184030

1-18GHz Broadband Power Amplifier



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

■ Features

- Ultra Wide Band: 1-18GHz
- Gain: 40dB
- Output Power: 30dBm
- High Output IP3: 40dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	1-18			GHz
Gain	38	40		dB
Gain Flatness		± 2.0	± 2.5	dB
Input VSWR		2.0	2.2	dB
Output VSWR		2.0	2.2	dB
NF			3	dB
Output Power for 1 dB Compression (P1dB)	28	30		dBm
Saturated Output Power (Psat)		31		dBm
Spurious		-60		dBc
Input Max Power(no damage)			0	dBm
DC Current (Vcc=+12v)@(P1dB)		430		mA
Impedance	50			Ω
Input Output Connector	SMA			
Material	Aluminium/Gold plated			
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

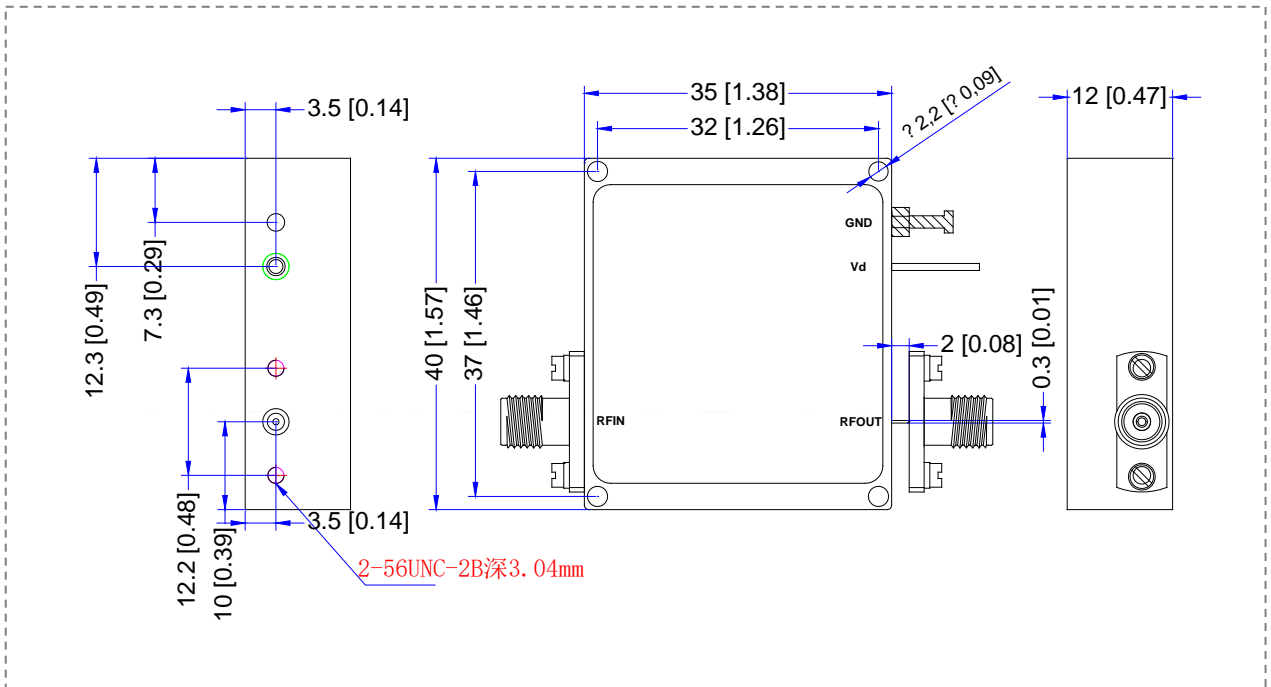
Absolute Maximum Ratings

Supply Bias Voltage	+15V
RF INPUT POWER	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing

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



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