

MODEL HIPA18503527

18-50GHz Low Noise Amplifier



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

■ Features

- Ultra Wide Band: 18-50GHz
- Gain: 35dB
- Output Power: 27dBm
- High Output IP3: 30dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	18-50			GHz
Gain	32	35		dB
Gain Flatness		±1.5	±2.5	dB
Input VSWR		1.8	2.5	-
Output VSWR		1.8	2.5	-
Output Power for (P1dB)		24		dBm
Output Power Past		27		dBm
Noise Figure		5	6.5	dB
Output IP3		30		dBm
Input Max Power(no damage)			0	dBm
DC Current (Vcc=+12V)		800		mA
Impedance	50			Ω
Input Output Connector	2.4mm-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

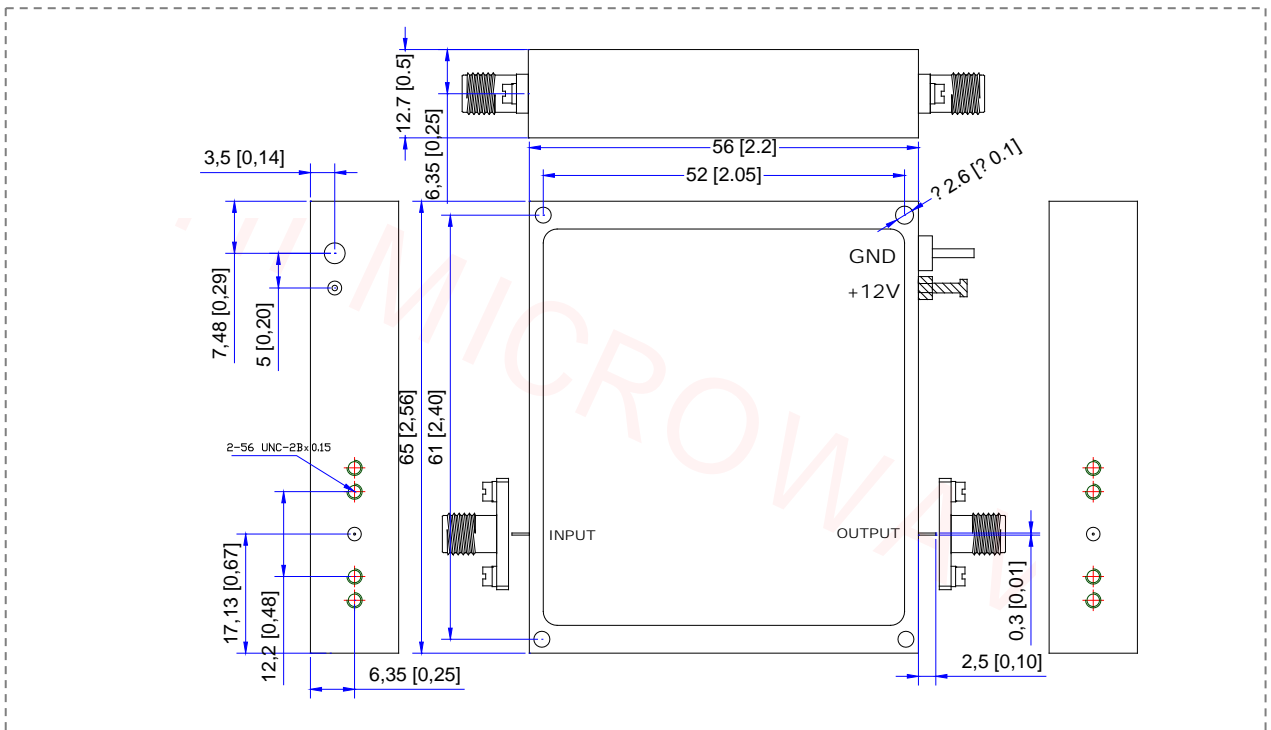
Supply Bias Voltage	+18V
RF INPUT POWER	-15dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE
PRECAUTIONS
ELECTROSTATIC
SENSITIVE
DEVICES

Outline Drawing

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



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