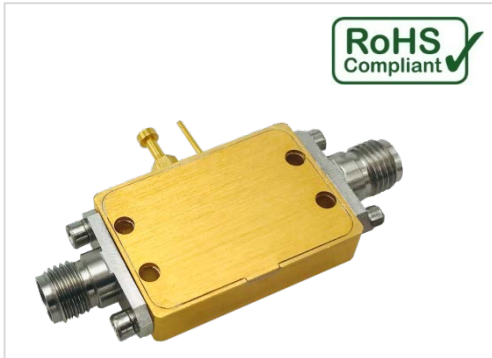


MODEL HILNA12183015

12-18GHz Low Noise Amplifier



■ Features

- Ultra Broadband: 12-18GHz
- Gain: 30dB
- Output Power: 15dBm
- High Output IP3: 25dBm

■ Applications

- Radar Systems
- Communication Systems
- Receiving Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max.	Units
Frequency Range	12-18			GHz
Gain	26	30		dB
Gain Flatness		±1.0	±1.5	dB
Gain Variation Over Temperature		±1		dB
Input VSWR		1.6	2.0	-
Output VSWR		1.5	2.0	-
Output Power for 1 dB Compression (P1dB)	15	17		dBm
Output Power Psat		17		dBm
Noise Figure		1.5	2.2	dB
OIP3		25		dBm
Input Max Power(no damage)			-10	dBm
DC Current (Vcc=+12~15V)		200		mA
Weight	30			g
Impedance	50			Ω
Input Connector	SMA-Female			
Output Connector	SMA-Female			
Material/Finishing	Copper/Gold Plating			
Package Sealing	General Sealing (Standard); Hermetically Seal(Optional)			

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	GJB9001	Humidity	100% RH at 35c, 95%RH at 40°C

Absolute Maximum Ratings

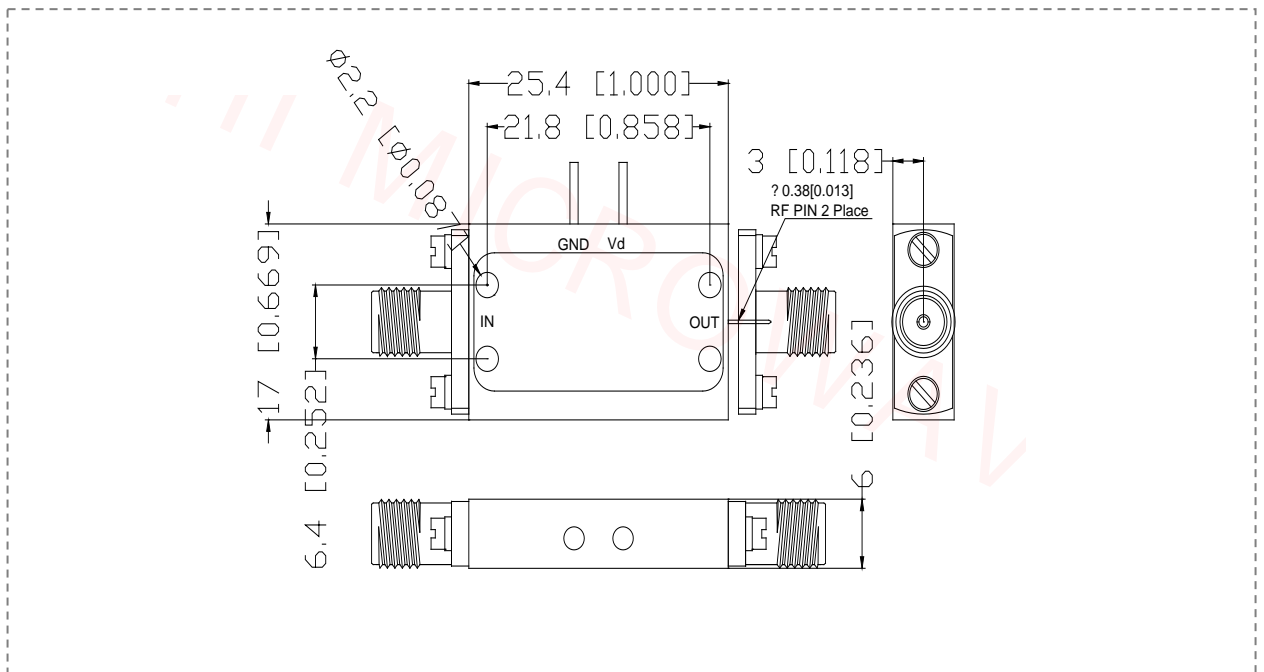
Supply Bias Voltage	+18V
RF INPUT POWER	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Outline Drawing

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



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