

MODEL HILNA06183015

6-18GHz Broadband Amplifier



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

■ Features

- Ultra Wide Band: 6-18GHz
- Gain: 33dB
- Output Power: 15dBm
- High Output IP3: 25dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	6~18			GHz
Gain	30	33		dB
Gain Flatness		±0.5	±1	dB
Gain Variation Over Temperature		±1		dB
Input VSWER		1.4	2.0	
Output VSWR		1.3	2.0	
Output Power for 1 dB	15	16		dBm
Saturated Output Power (Psat)		17		dBm
Noise Figure		1.5	2.0	dB
OIP3		25		
Input Max Power(no damage)			-10	dBm
DC Current (Vcc=+12V)		180		mA
Impedance	50			Ω
Input Output Connector	SMA-k/SMA-K			
Material	Aluminium/Gold			
Weight	50g			
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	MIL-STD-810G	Humidity	100% RH at 35c, 95%RH at 40°C

Absolute Maximum Ratings

Supply Bias Voltage	15V
RF INPUT POWER	-10dBm
ESD sensitivity (HBm)	Class 0, passed 150V

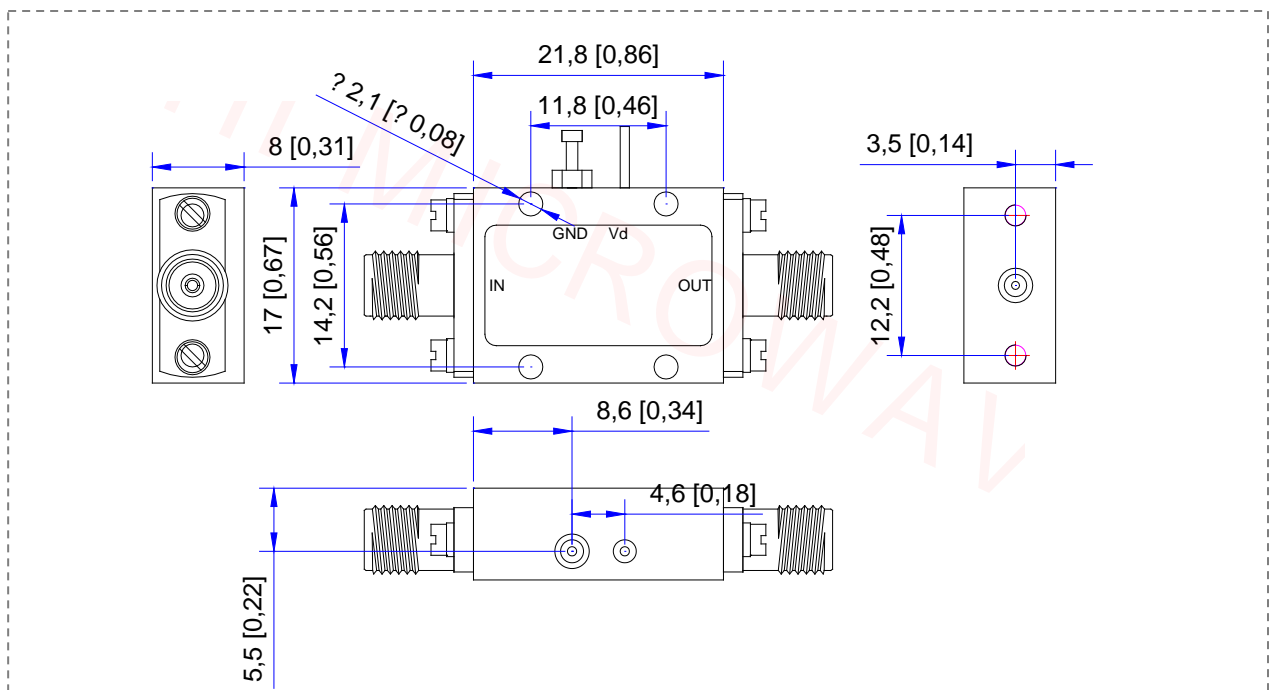


OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES



Outline Drawing

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



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