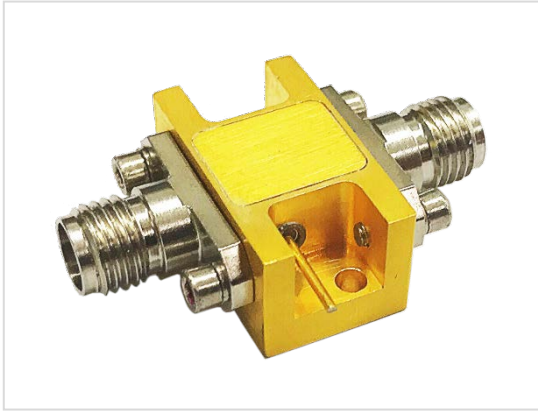


MODEL HILNA18422240

18-42GHz Low Noise Amplifier



■ Features

- Ultra Wide Band: 18-42GHz
- Gain: 25dB
- Output Power: 15dBm
- hermetically sealed

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	18-42			GHz
Gain	22	28		dB
Gain Flatness		±2.0	±2.5	dB
Input VSWR		1.8	2.5	-
Output VSWR		1.8	2.5	-
Output Power for 1 dB Compression (P1dB)	13	15		dBm
Output Power Past		15		dBm
Noise Figure		4.0	5.5	dB
Output IP3		20		dBm
Input Max Power(no damage)			0	dBm
DC Current (Vcc=+5V±10%)		240		mA
Impedance	50			Ω
Input Output Connector	2.92-J/2.92-K			
Material	Aluminium\Gold Painting			
Weight	50g			
Package Sealing	Standard Sealing			

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	+5.5V
RF INPUT POWER	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V

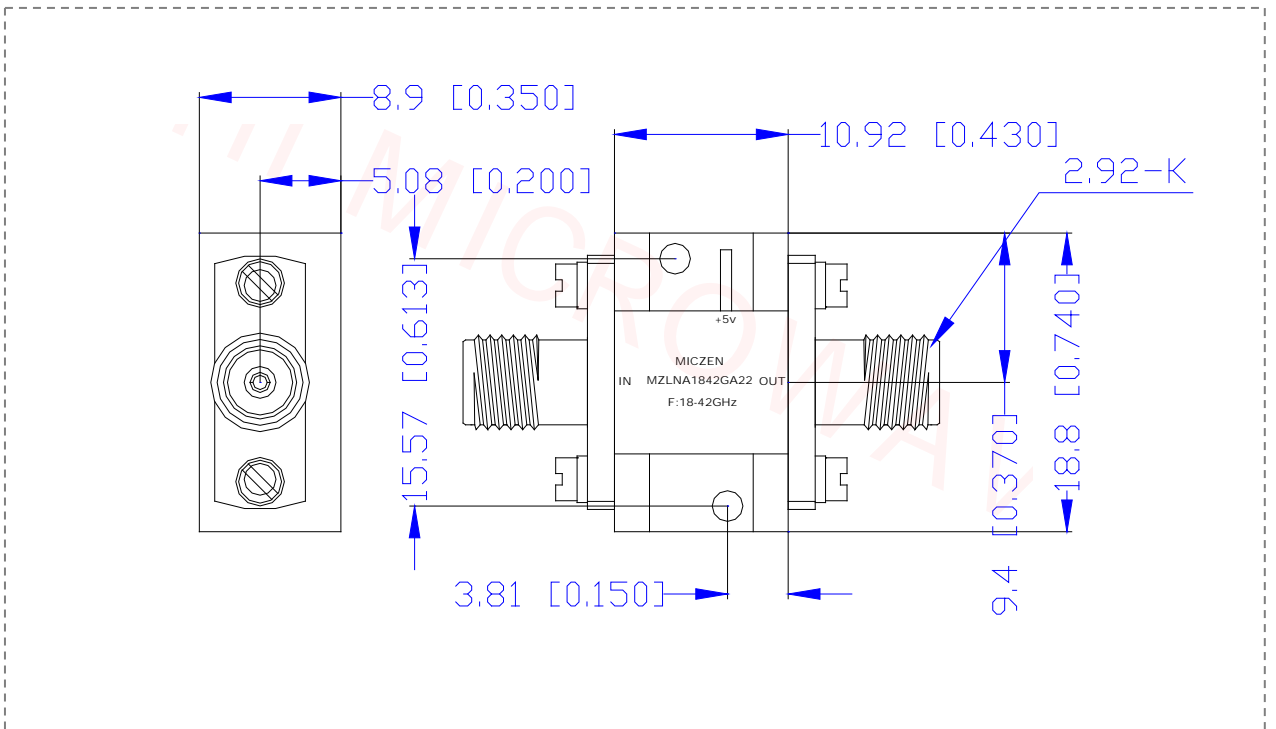


OBSERVE PRECAUTIONS ELECTROSTATIC SENSITIVE DEVICES



Outline Drawing

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



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