

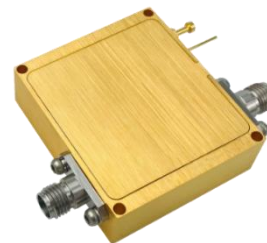
# 0.02-18GHz Limiting Low Noise Amplifier

P/N: LMTA000180GA20



### Description:

The amplifier is a Limiting low noise amplifier with a typical small signal gain of 22 dB and a typical noise figure of 3 dB across the frequency range of 0.02 to 18 GHz. The typical output power P-1 10 dBm. The DC power requirement for the amplifier is +12 VDC/175 mA. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

### Electrical Specifications ( +25°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		0.02-18		GHz
Gain	20	22		dB
Gain Flatness@ 20 MHz-100 MHz		±1.5	±2	
Gain Flatness@ 100 MHz - 18GHz		±1	±1.5	dB
VSWR		1.8		-
Output Power for (P1dB)	10	11		dBm
Saturated Output Power (Psat)		13		dBm
Spurious		-60		dBc
Noise Figure@ 20 MHz-100 MHz		6		dB
Noise Figure@ 100 MHz - 18GHz		3		dB
Output IP3		30		dBm
Input Max Power(no damage)			30	dBm
DC Current (Vcc=+12V)		175		mA
Impedance		50		Ω
Input/Output Connector		SMA-Female/SMA-Female		
Material		Aluminium/Gold Painting		
Weight		50g		
Package Sealing		General Sealing (Standard)		

### Environmental Specifications:

- ※ Operational Temperature -25°C~+85°C
- ※ Storage Temperature -55°C~+125°C



OBSERVE  
PRECAUTIONS ELECTROSTATIC  
SENSITIVE DEVICES

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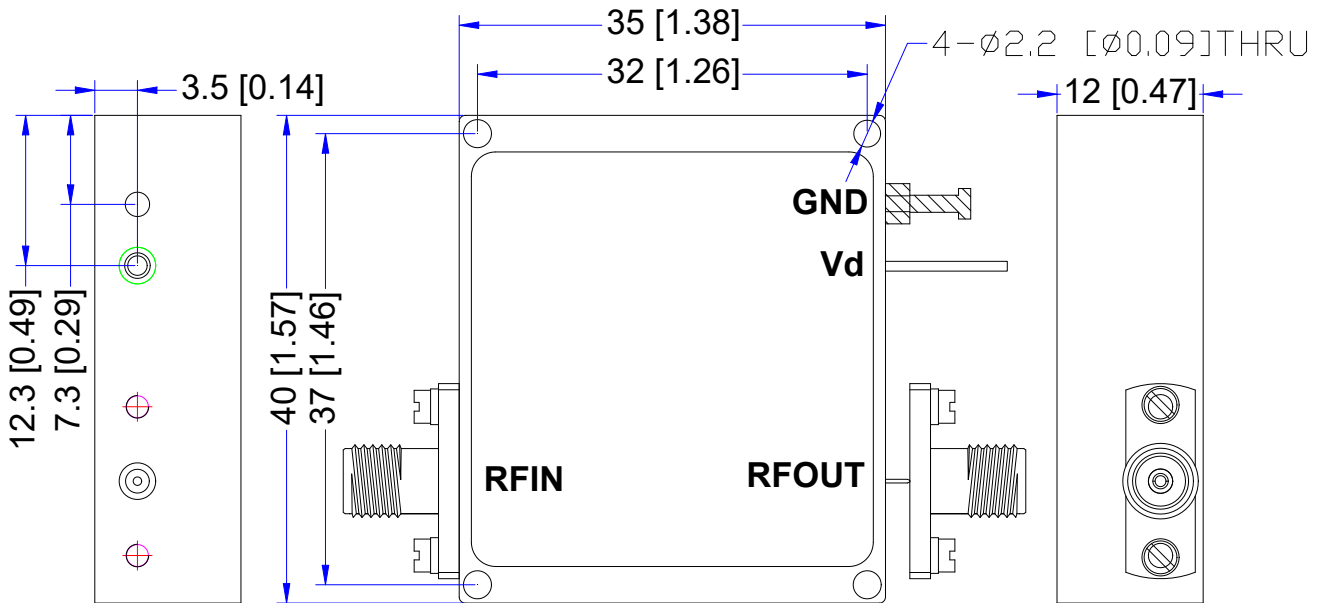
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## ■ Outline Drawing

All Dimensions in mm (inches) Tolerance  $\pm 0.25$  (0.01)



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

### NOTE:

1. The product is designed to meet environmental ratings but not tested. If you need to test environmental condition, please contact our sales department.
2. Miczen technologies co., Ltd. reserves the right to change the above information without notice.

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