

0.01-70GHz Low Noise Amplifier

P/N: MZLNA00070GA18



■ Features

- Ultra Wide Band: 0.01-70GHz
- Gain: 18dB
- Output Power: 15dBm
- High Output IP3: 20dBm

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems



■ Electrical Specifications (+25 °C)

Parameter	Min.	Typ.	Max	Units
Frequency Range	0.01-70			GHz
Gain		18		dB
Gain Flatness		±2	±2.5	dB
Input VSWR		1.8	2.5	-
Output VSWR		1.8	2.5	-
Output Power for 1dB Compression (P1dB)		15		dBm
Output Power Past		16		dBm
Spurious		-60		dBc
Noise Figure		5		dB
Output IP3		20		dBm
Input Max Power(no damage)			+5	dBm
DC Current (Vcc=+12V)		200		mA
Impedance	50			Ω
Input Output Connector	1.85mm-Female			
Material / Finishing	Aluminium\Gold Plated			
Weight	50g			
Package Sealing	General Sealed(Standard) ; Hermetically Sealed(Optional)			

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■ 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

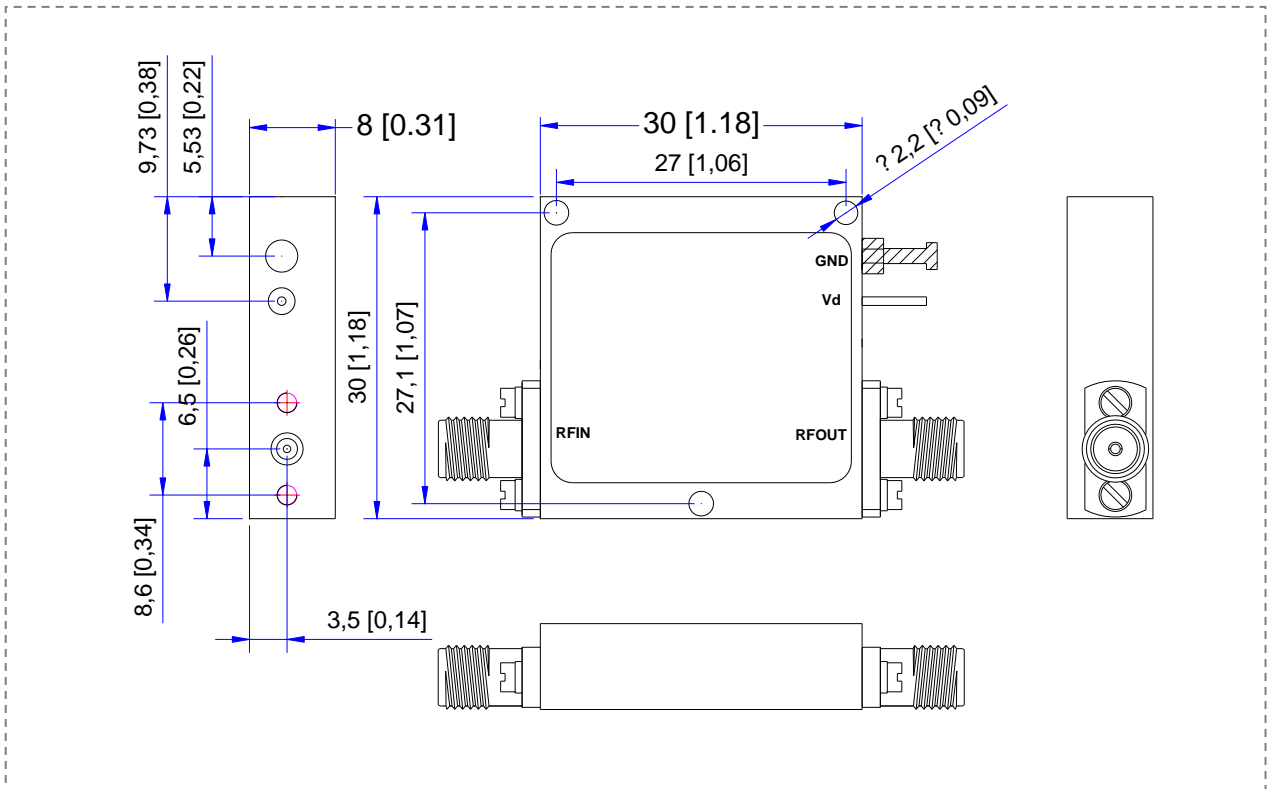
■ Absolute Maximum Ratings

Supply Bias Voltage	+13V
RF INPUT POWER	5dBm
ESD sensitivity (HBm)	Class 0, passed 150V



■ Outline Drawing

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



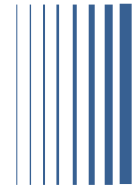
*****Heat Sink required during operation*****

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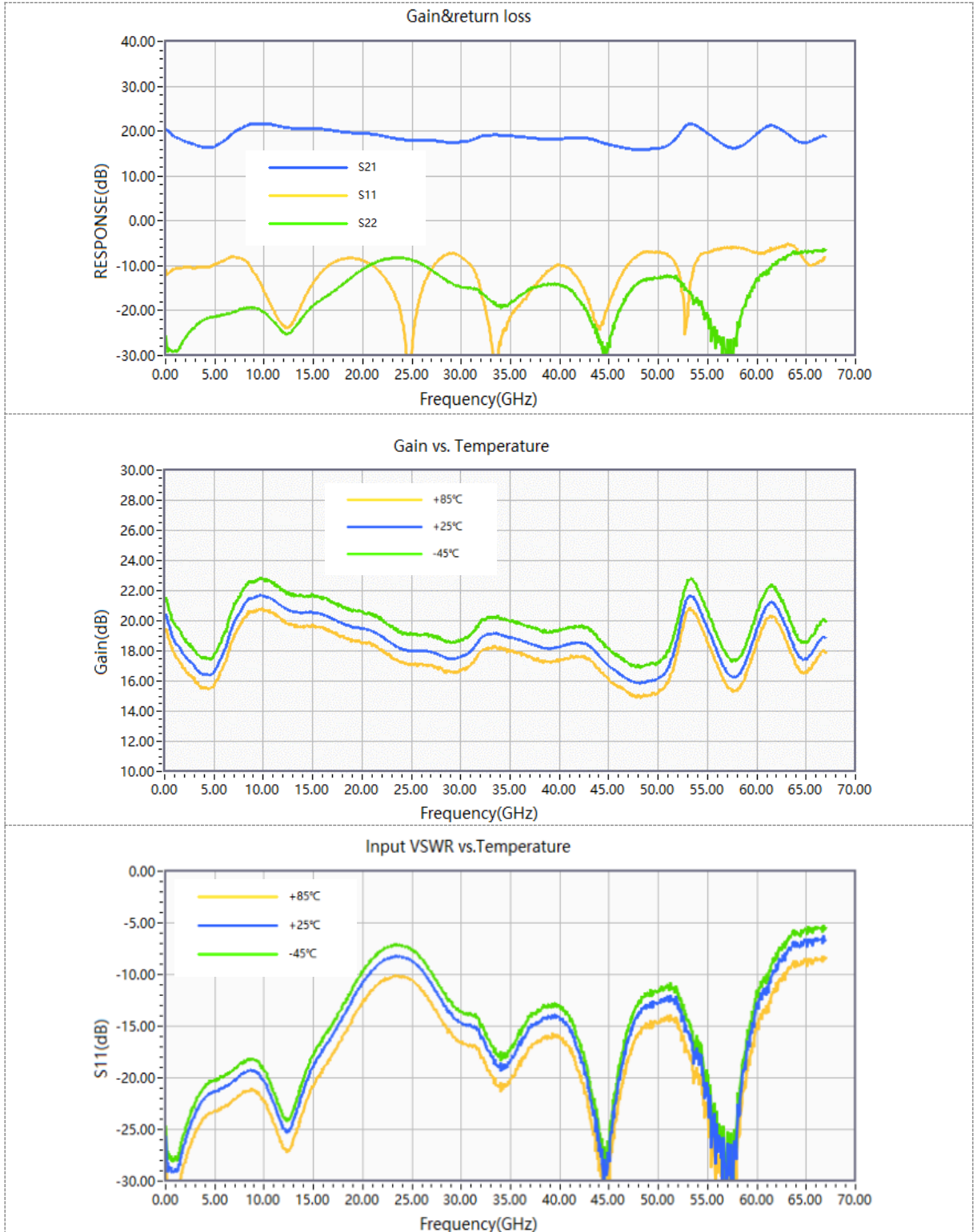
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■ Performance Plot

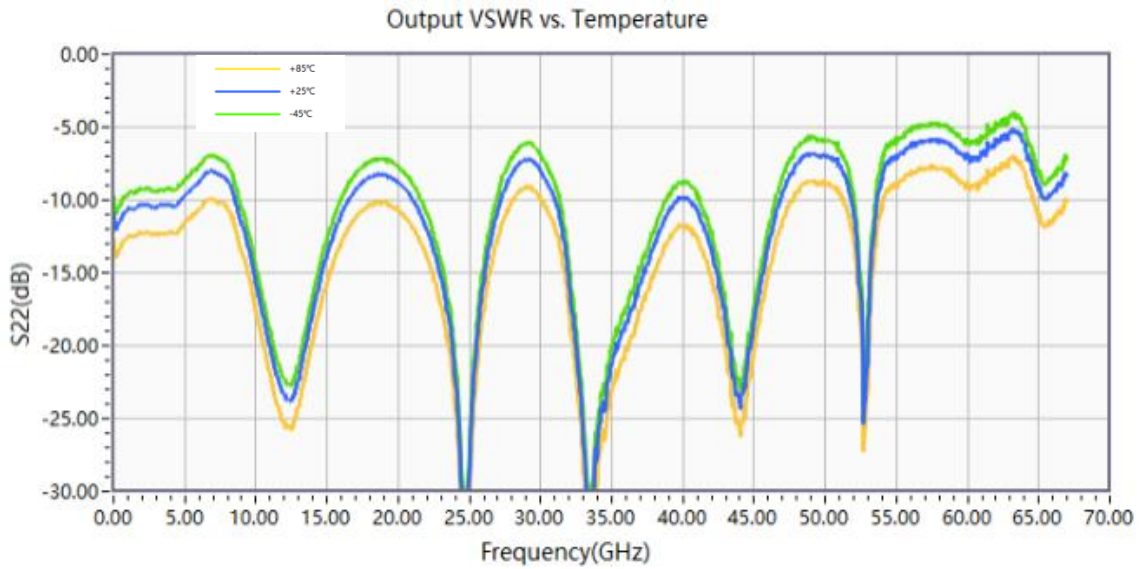


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NOTE:

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