

1.5 dB NF Low Noise Amplifier Operating From 1.2 GHz to 1.4 GHz with 25 dB Gain, 10 dBm P1dB and SMA

The FMAM1023 is an L-band high gain low noise coaxial amplifier operating in the 1.2 to 1.4 GHz frequency range. The low noise amplifier offers 10 dBm min of P1dB and 25 dB typical small signal gain with gain flatness of ± 0.75 dB typical. This excellent technical performance is achieved through the use of hybrid MIC design and advanced GaAs PHEMT devices. The low noise amplifier requires typically a +12V DC power supply. The connectorized SMA module is unconditionally stable and includes built-in voltage regulation, bias sequencing, and reverse bias protection for added reliability. The amplifier operates over the temperature range of -40°C and +75°C.

Electrical Specifications (TA = +25°C , DC Voltage = 12Volts , DC Current = 150mA)

Description	Min	Typ	Max	Unit
Frequency Range	1.2		1.4	GHz
Small Signal Gain	25			dB
Gain Flatness		± 0.75	± 1	dB
Output at 1 dB Compression Point	+10			dBm
Noise Figure		1.5		dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage	10.8	12	13.2	Volts
Operating DC Current		150		mA
Operating Temperature Range	-40		+75	°C

Mechanical Specifications

Size	
Length	2.32 in [58.93 mm]
Width	2.32 in [58.93 mm]
Height	0.71 in [18.03 mm]
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature	
Operating Range	-40 to +75 deg C

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant	Yes
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Plotted and Other Data

Notes:

- Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.



Features:

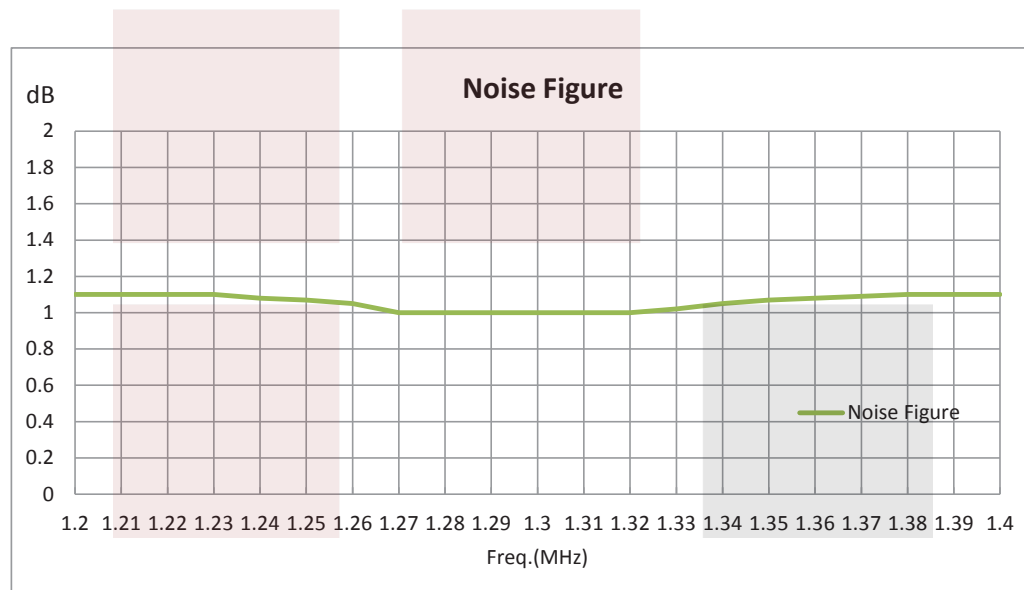
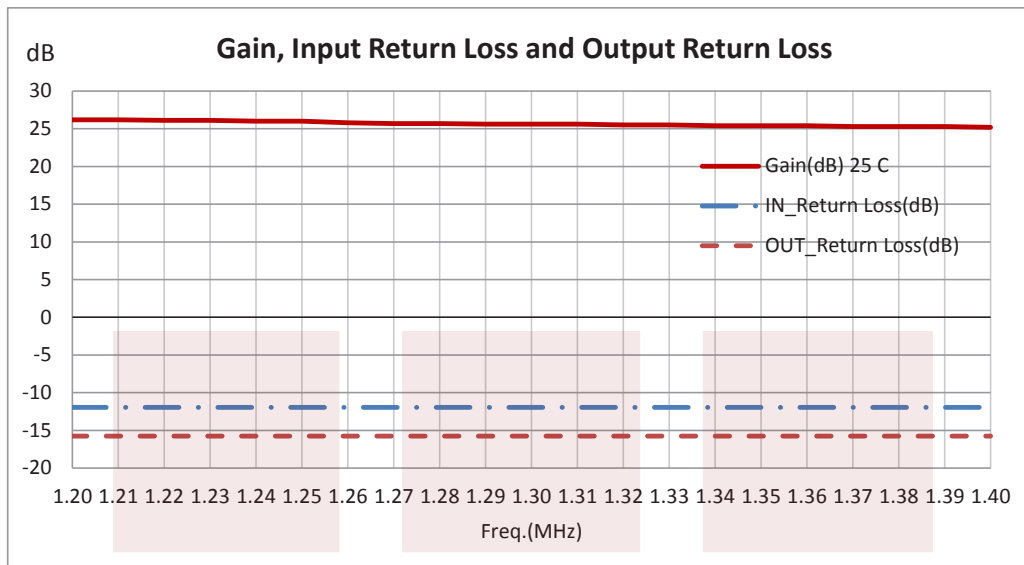
- 1.2 GHz to 1.4 GHz Frequency Range
- P1dB: 10 dBm min
- Small Signal Gain: 25 dB min
- Gain Flatness: ± 0.75 dB typical
- Noise Figure: 1.5 dB typ
- 50 Ohm Input and Output Matched
- Unconditionally Stable
- Regulated Supply & Bias Sequencing

Applications:

- L-band Military Radar
- Commercial Air Traffic Control
- Weather & Earth Observation Satellites
- Radar & Communication Systems
- High Gain Low Noise Amplifier

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Typical Performance Data

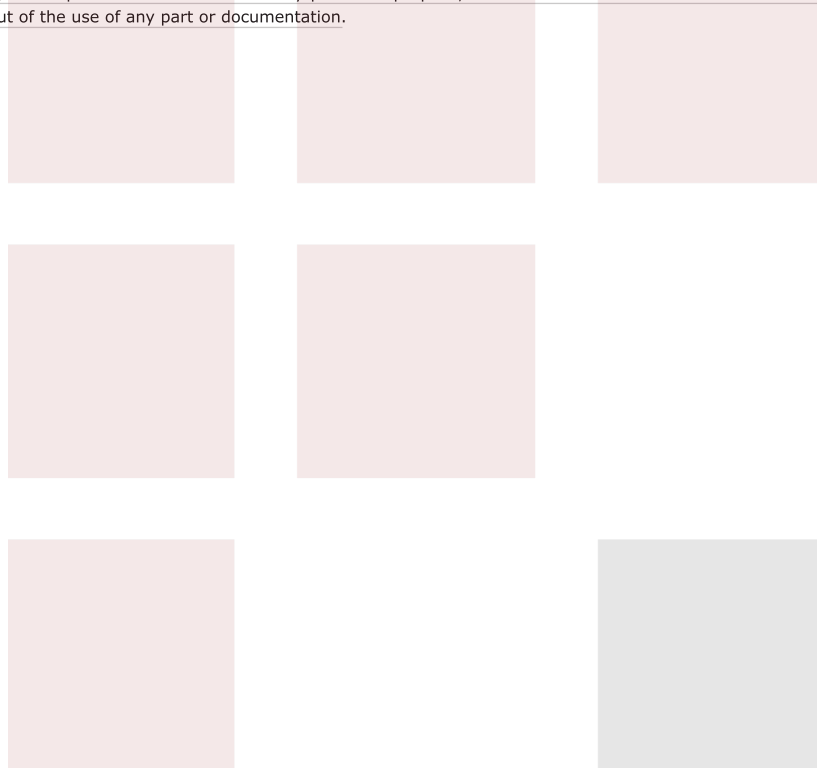


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For additional information on this product, please click the following link: [1.5 dB NF Low Noise Amplifier Operating From 1.2 GHz to 1.4 GHz with 25 dB Gain, 10 dBm P1dB and SMA FMAM1023](http://www.fairviewmicrowave.com/1.5db-nf-low-noise-amplifier-25db-fmam1023-p.aspx)

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