

FMAM1023 DATA SHEET

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)

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Description		Min	Тур	Max	Unit
Frequency Range		1.2		1.4	GHz
Small Signal Gain		25			dB
Gain Flatness			±0.75	±1	dB
Output at 1 dB Compress	sion 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 R	ange	-40		+75	°C



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

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

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.



Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

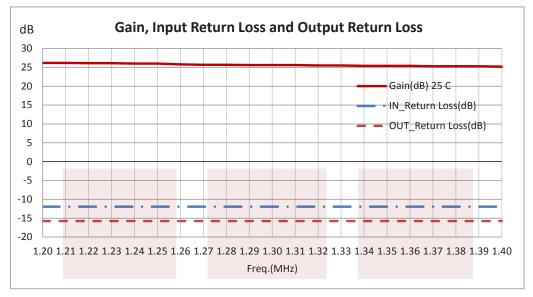
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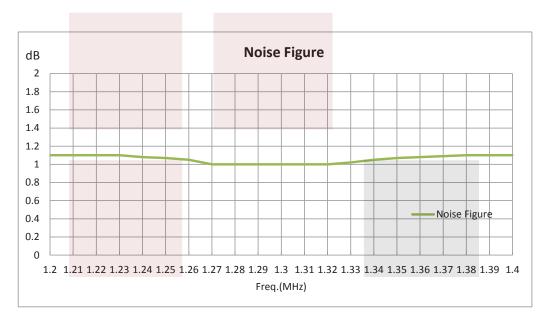
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Typical Performance Data









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 from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

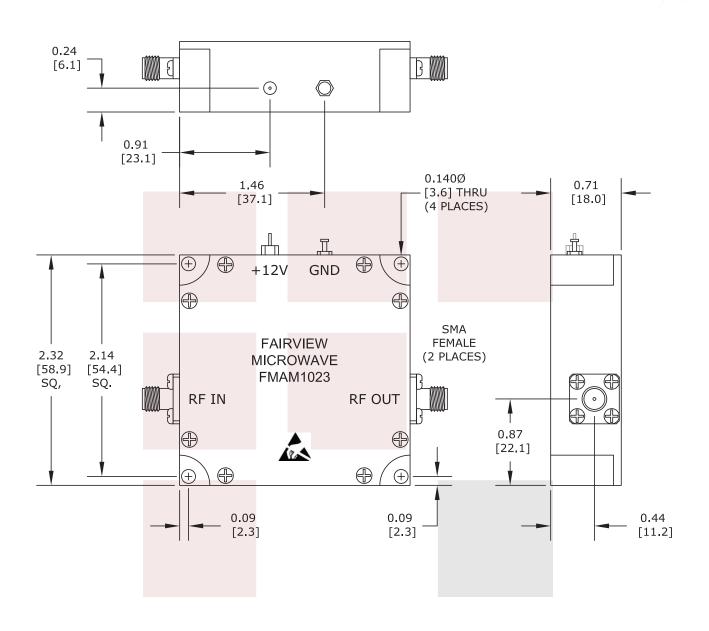
For additional information on this product, please click the following link: 1.5 dB NF Low Noise Amplifier Operating From 1.2 GHz to 1.4 GHz with 25 dB Gain, 10 dBm P1dB and SMA FMAM1023

URL: http://www.fairviewmicrowave.com/1.5db-nf-low-noise-amplifier-25db-fmam1023-p.aspx









NOTE:

HEAT SINK REQUIRED FOR PROPER OPERATION, UNIT IS COOLED BY CONDUCTING TO HEAT SINK.

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].						
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	DWG NO FMAM1023			CAGE CODE 3FKR5			
	CAD FILE 021715	SHEET	SCALE	N/A	SIZE A	2233	