

1.5 dB NF Low Noise Amplifier, Operating From 1 GHz to 2 GHz with 35 dB Gain, 10 dBm Psat and SMA

FMAM1000 is a L-band coaxial low noise amplifier operating in the 1 to 2 GHz frequency range. The amplifier offers 1.5 dB noise figure, 10 dBm minimum of saturated power and high 35 dB minimal small signal gain with gain flatness of ± 1.0 dB max. This 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 +85°C.

Electrical Specifications (TA = +25°C , DC Voltage = 12Vdc , DC Current = 200mA)

Description	Min	Typ	Max	Unit
Frequency Range	1		2	GHz
Small Signal Gain	35			dB
Gain Flatness			± 1	dB
Output at 1 dB Compression Point	+10			dBm
Saturated Output Power (Psat)	+10			dBm
Noise Figure		1.5		dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage	11	12	13	Volts
Operating DC Current			200	mA
Operating Temperature Range	-40		+85	°C

Mechanical Specifications

Size	
Length	1.77 in [44.96 mm]
Width	1 in [25.4 mm]
Height	0.5 in [12.7 mm]
Weight	0.071 lbs [32.21 g]
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
Shock	RTCA, DO-160C
Vibration	RTCA, DO-160C

Compliance Certifications (see [product page](#) for current document)

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:

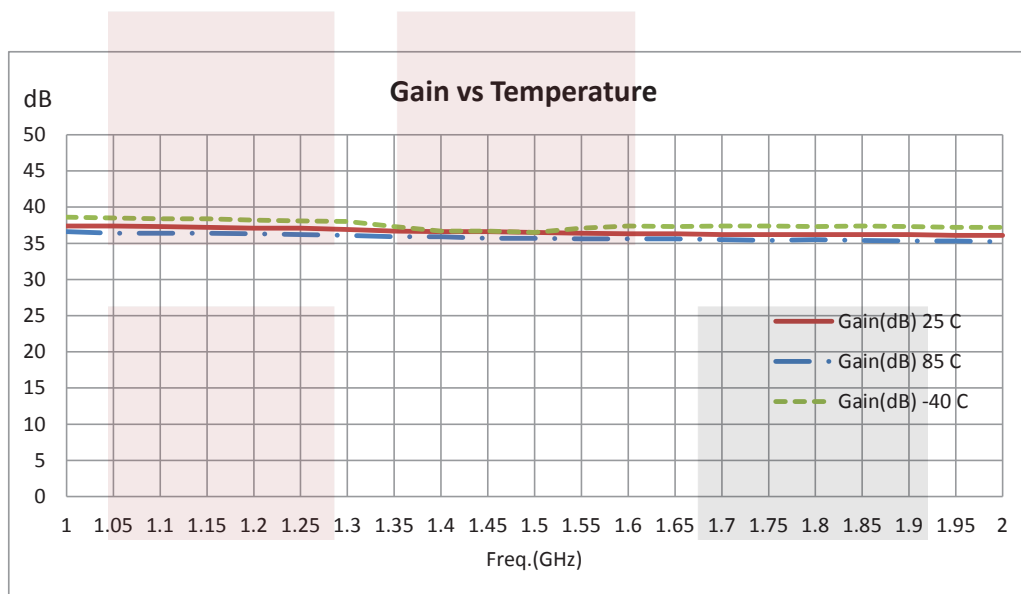
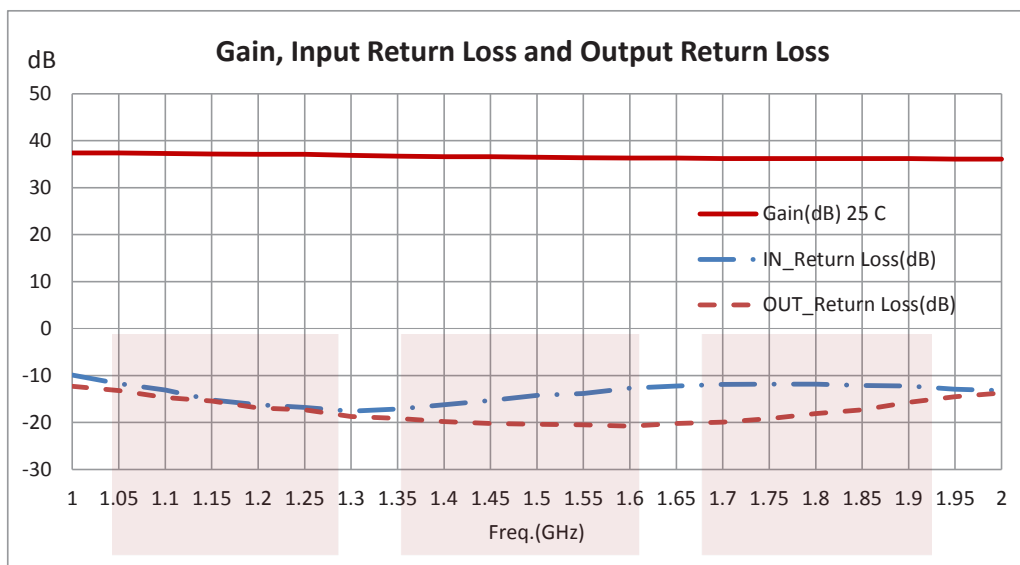
- 1 GHz to 2 GHz Frequency Range
- Psat: 10 dBm min
- High Small Signal Gain: 35 dB
- Gain Flatness: ± 1.0 dB max
- Noise Figure: 1.5 dB
- 50 Ohm Input and Output Matched
- -40 to 85°C Operating Temperature
- Unconditionally Stable
- Regulated Supply & Bias Sequencing
- Hermetically Sealed Module
- Overvoltage External Protection for Easy Repair

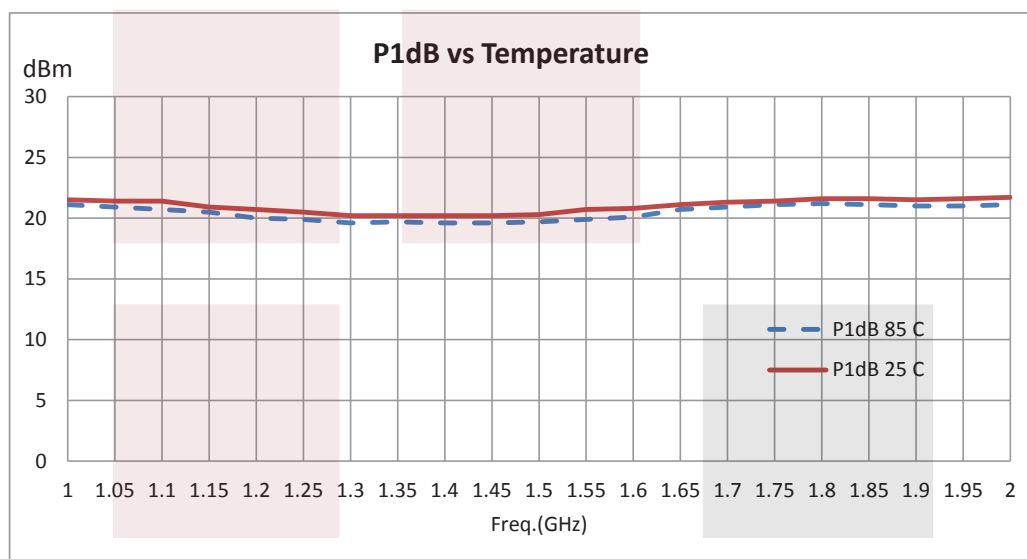
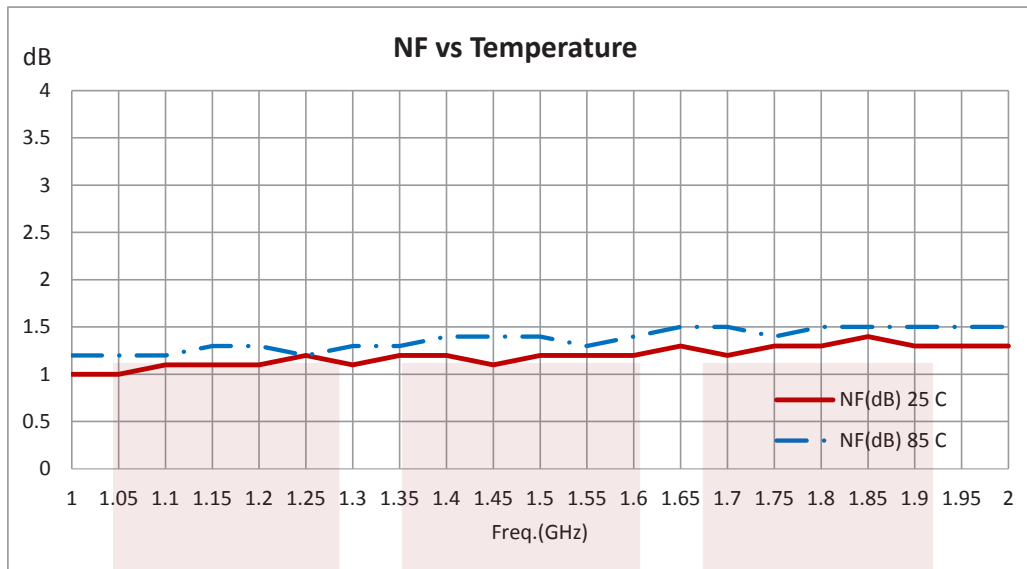
Applications:

- Laboratory Applications
- R&D Labs
- Radar Systems
- Telecom Infrastructure
- Test Instrumentation
- Military & Space
- Communication Systems
- Satellite Communications
- Wireless Communications
- Microwave Radio Systems
- Low Noise Amplifier
- General Purpose Amplification
- Gain Block

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Typical Performance Data





1.5 dB NF Low Noise Amplifier, Operating From 1 GHz to 2 GHz with 35 dB Gain, 10 dBm Psat 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 GHz to 2 GHz with 35 dB Gain, 10 dBm Psat and SMA FMAM1000](https://www.fairviewmicrowave.com/1.5db-nf-low-noise-amplifier-35db-fmam1000-p.aspx)

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