

2.2 dB NF Low Noise Amplifier Operating From 8 GHz to 12 GHz with 18 dB Gain, 13 dBm Psat and SMA

FMAM1027 is a X-band coaxial low noise amplifier operating in the 8 to 12 GHz frequency range. The amplifier offers 2.2 dB typical noise figure, 13 dBm minimum of saturated power and high 18 dB minimal small signal gain. This exceptional 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 = 12Volts , DC Current = 150mA)

Description	Min	Typ	Max	Unit
Frequency Range	8		12	GHz
Small Signal Gain	18			dB
Minimum Psat	+13			dBm
Noise Figure		2.2		dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage	11	12	13	Volts
Operating DC Current			150	mA
Operating Temperature Range	-40		+85	°C

Mechanical Specifications

Size	
Length	1.083 in [27.51 mm]
Width	1.093 in [27.76 mm]
Height	0.382 in [9.7 mm]
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 (visit www.FairviewMicrowave.com 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:

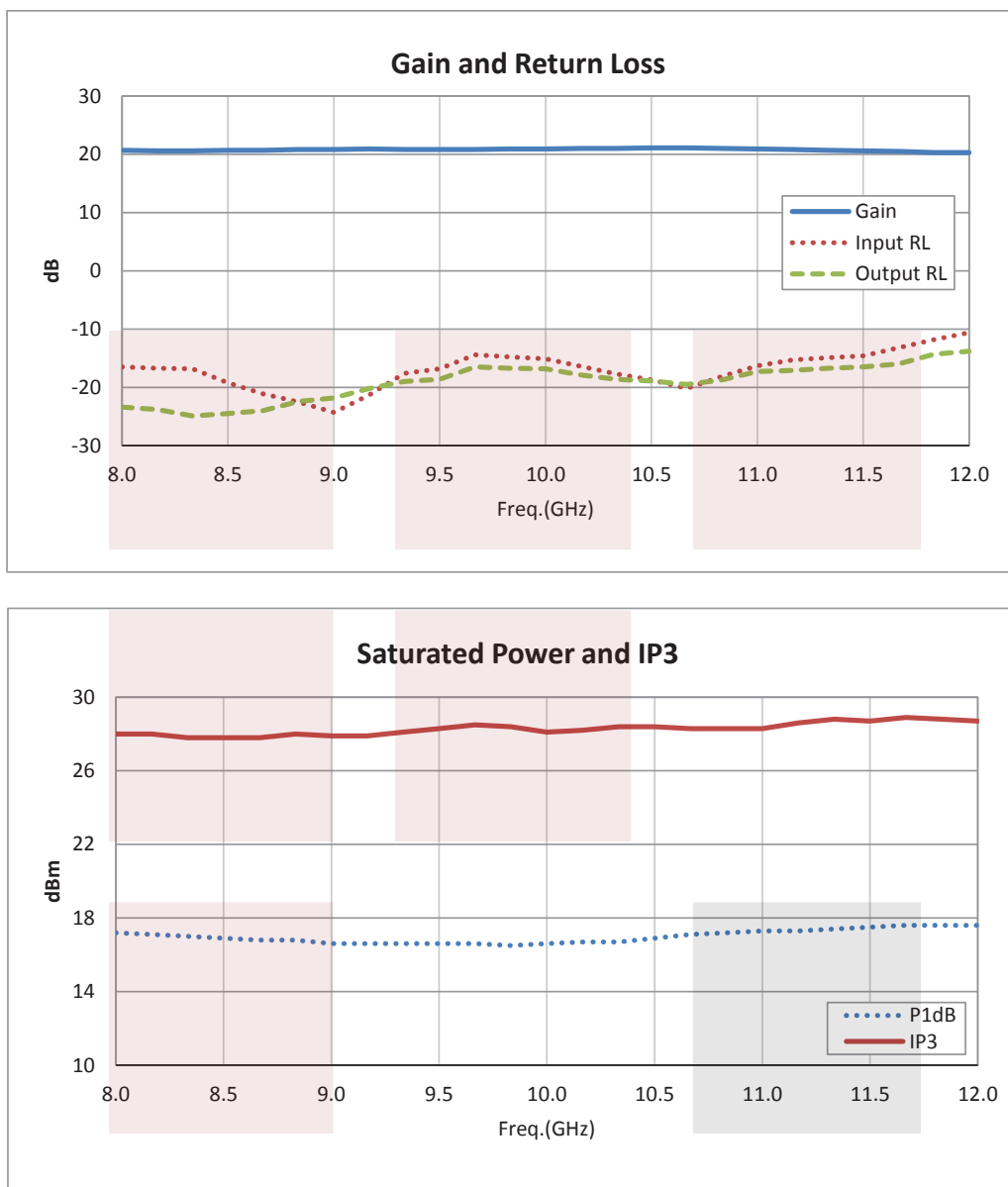
- 8 GHz to 12 GHz Frequency Range
- Psat: 13 dBm min
- High Small Signal Gain: 18 dB min
- Noise Figure: 2.2 dB typ
- 50 Ohm Input and Output Matched
- -40 to 85°C Operating Temperature
- Unconditionally Stable
- Regulated Supply & Bias Sequencing
- Hermetically Sealed Module
- Overvoltage External Protection for Easy Repair

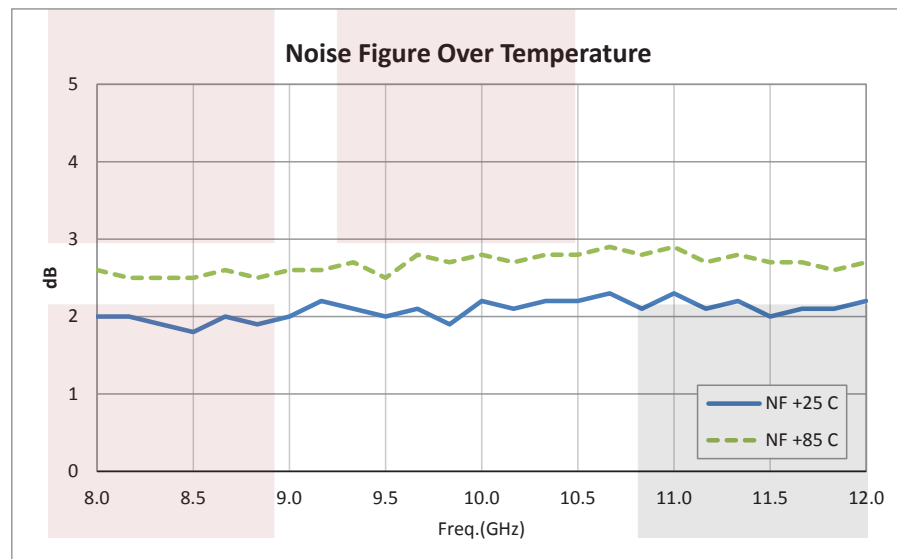
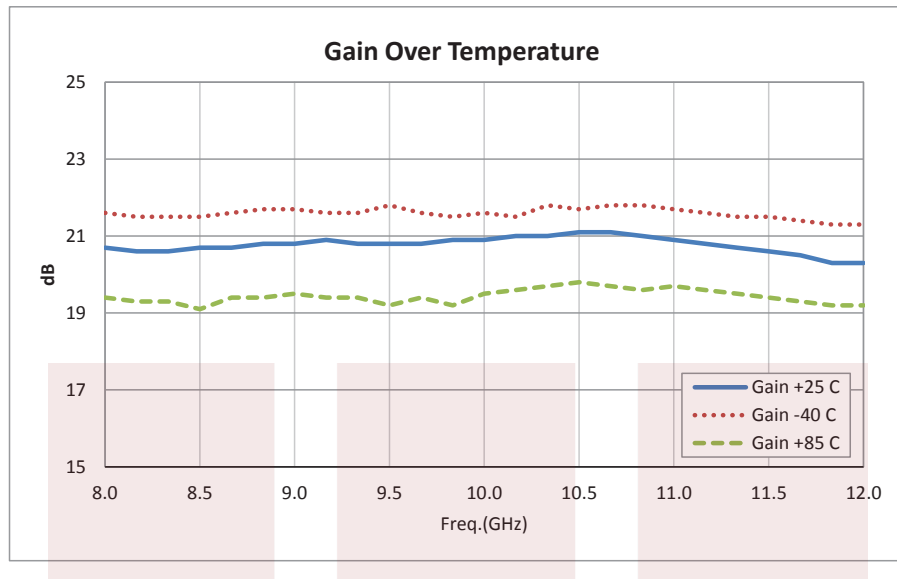
Applications:

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

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Typical Performance Data





2.2 dB NF Low Noise Amplifier Operating From 8 GHz to 12 GHz with 18 dB Gain, 13 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: [2.2 dB NF Low Noise Amplifier Operating From 8 GHz to 12 GHz with 18 dB Gain, 13 dBm Psat and SMA FMAM1027](http://www.fairviewmicrowave.com/2.2db-nf-low-noise-amplifier-18db-fmam1027-p.aspx)

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