

0.7 dB NF Low Noise Amplifier Operating From 1.2 GHz to 1.6 GHz with 40 dB Gain, 12 dBm P1dB and SMA

FMAM1028 is a wideband low noise RF coaxial power amplifier operating in the 1.2 GHz to 1.6 GHz frequency range. The amplifier offers 0.7 dB noise figure typical, 12 dBm of P1dB and 40 dB small signal gain with gain flatness of ± 0.5 dB. The low noise amplifier requires typically a +12V DC power supply and is unconditionally stable. The amplifier operates over the temperature range of -40°C and +85°C.

Electrical Specifications (TA = +25°C, DC Voltage = 12Vdc, DC Current = 100mA)

Description	Min	Typ	Max	Unit
Frequency Range	1.2		1.6	GHz
Small Signal Gain	38	40		dB
Gain Flatness		± 0.5	± 0.75	dB
Gain Variance at OTR*			± 1	dB
Output at 1 dB Compression Point		+12		dBm
Noise Figure			0.8	dB
Input VSWR		1.35:1	1.5:1	
Output VSWR		1.35:1	1.5:1	
Reverse Isolation		60		dB
Spurious			60	dBc
Operating DC Voltage	10	12	15	Volts
Operating DC Current	80	100	120	mA
Operating Temperature Range	-40		+85	°C

*OTR= Base Plate Operating Temperature Range

Mechanical Specifications

Size	
Length	1.5 in [38.1 mm]
Width	0.85 in [21.59 mm]
Height	0.375 in [9.53 mm]
Weight	0.053 lbs [24.04 g]
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
Storage Range	-55 to +125 deg C

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:

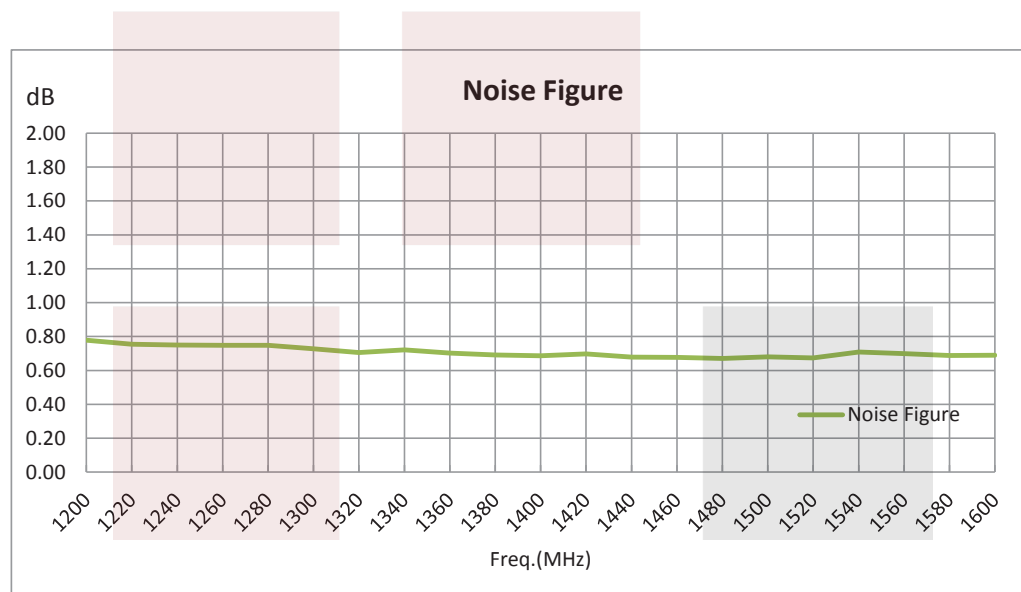
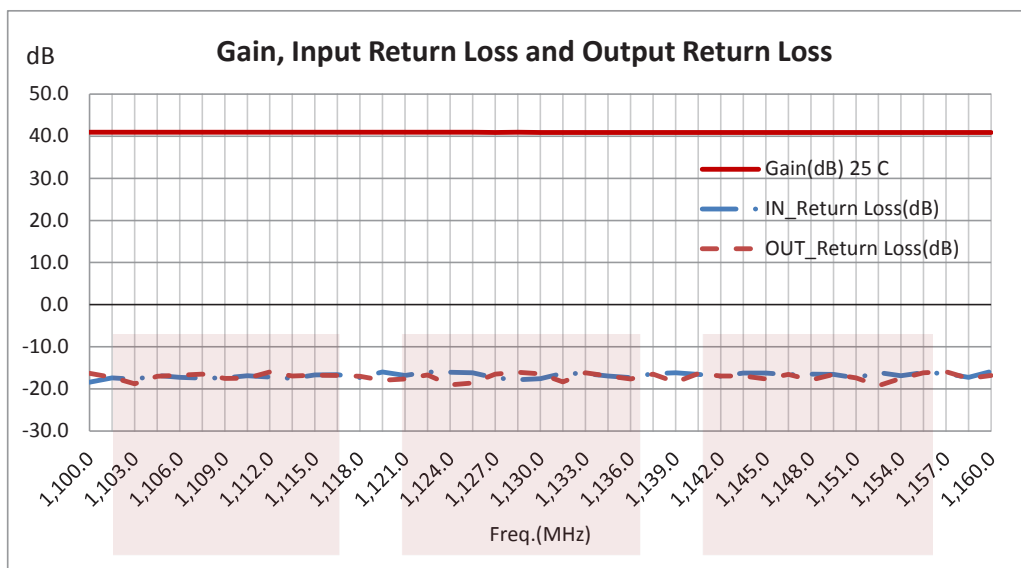
- 1.2 GHz to 1.6 GHz Frequency Range
- Noise Figure: 0.7 dB typ
- P1dB: 12 dBm
- Flat Small Signal Gain: 40 dB
- Gain Flatness: ± 0.5 dB
- 50 Ohm Input and Output Matched
- -40 to 85°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in Voltage Regulator

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

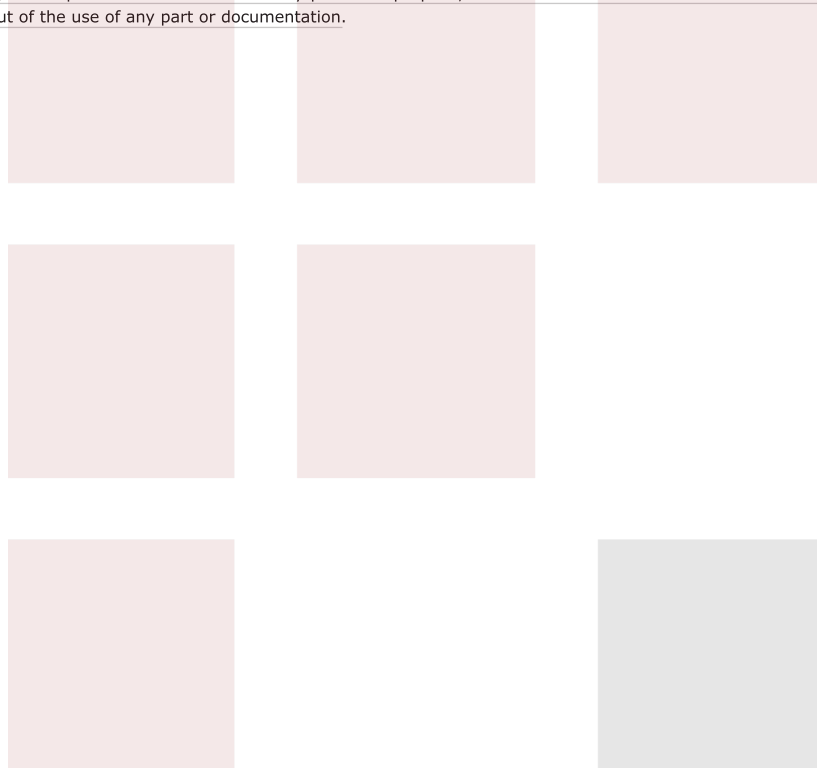


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For additional information on this product, please click the following link: [0.7 dB NF Low Noise Amplifier Operating From 1.2 GHz to 1.6 GHz with 40 dB Gain, 12 dBm P1dB and SMA FMAM1028](https://www.fairviewmicrowave.com/0.7db-nf-low-noise-amplifier-40db-fmam1028-p.aspx)

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