

FMAM1028 DATA SHEET

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 $+85^{\circ}$ C.

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

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Description		Min		Тур	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 Compres	sion Point			+12		dBm
Noise Figure					0.8	dB
Input VSWR			1	1.35:1	1.5:1	
Output VSWR			1	L.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 F	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 a]

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:

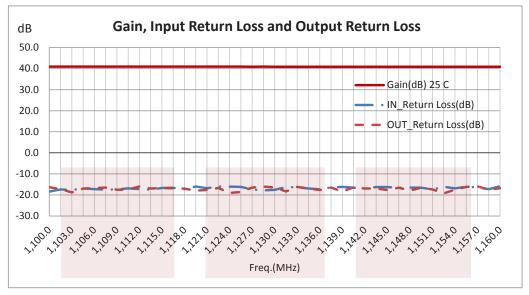
- Laboratory Applications
- R&D Labs
- Radar Systems
- Telecom Infrastructure
- Test Instrumentation
- Military & Space
- Communication Systems
- Microwave Radio Systems
- Satellite Communications
- · Low Noise Amplifier
- General Purpose Amplification
- · Gain Block

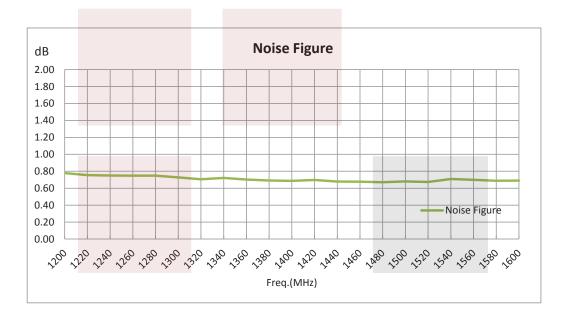
Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Typical Performance Data









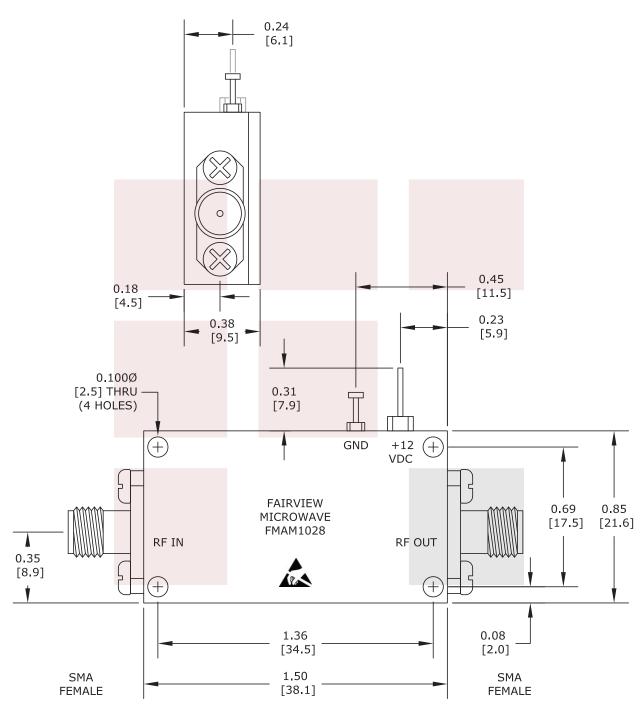
0.7 dB NF Low Noise Amplifier Operating From 1.2 GHz to 1.6 GHz with 40 dB Gain, 12 dBm P1dB and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 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

URL: https://www.fairviewmicrowave.com/0.7db-nf-low-noise-amplifier-40db-fmam1028-p.aspx







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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	DWG NO FMAM1028				CAGE CODE 3FKR5				
	CAD FILE 051515	SHEET	SCALE	N/A	SIZE A	2233			