

500 MHz to 2.5 GHz, Medium Power Broadband Amplifier with 24 dBm, 24 dB Gain and SMA

The FMAM4039 is a broadband coaxial power amplifier, operating in the 0.5 to 2.5 GHz frequency range. The amplifier offers 24 dBm of P1dB min and 23 dB small signal gain min, with the gain flatness of ± 2.0 dB max. This power amplifier requires only a single positive DC supply, in unconditionally stable, operates over the temperature range of -30°C to $+70^{\circ}\text{C}$, and is Hermetically sealed.

Electrical Specifications (TA = 25°C, VDC1 = 12 Vdc)

Description	Min	Typ	Max	Unit
Frequency Range	0.5		2.5	GHz
Gain	23	24		dB
Gain Flatness		± 0.5	± 0.75	dB
P1dB	+24			dBm
Noise Figure		3.5	4	dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage 1		12		Volts
Operating DC Current		240	250	mA
Quiescent Current		288		mA
Operating Temperature Range (OTR)	-30		+70	$^{\circ}\text{C}$

Mechanical Specifications

Size	
Length	1.13 in [28.7 mm]
Width	0.5 in [12.7 mm]
Height	0.9 in [22.86 mm]
Weight	0.073 lbs [33.11 g]
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature	
Operating Range	-30 to $+70$ deg C

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

Plotted and Other Data

Notes:



Features:

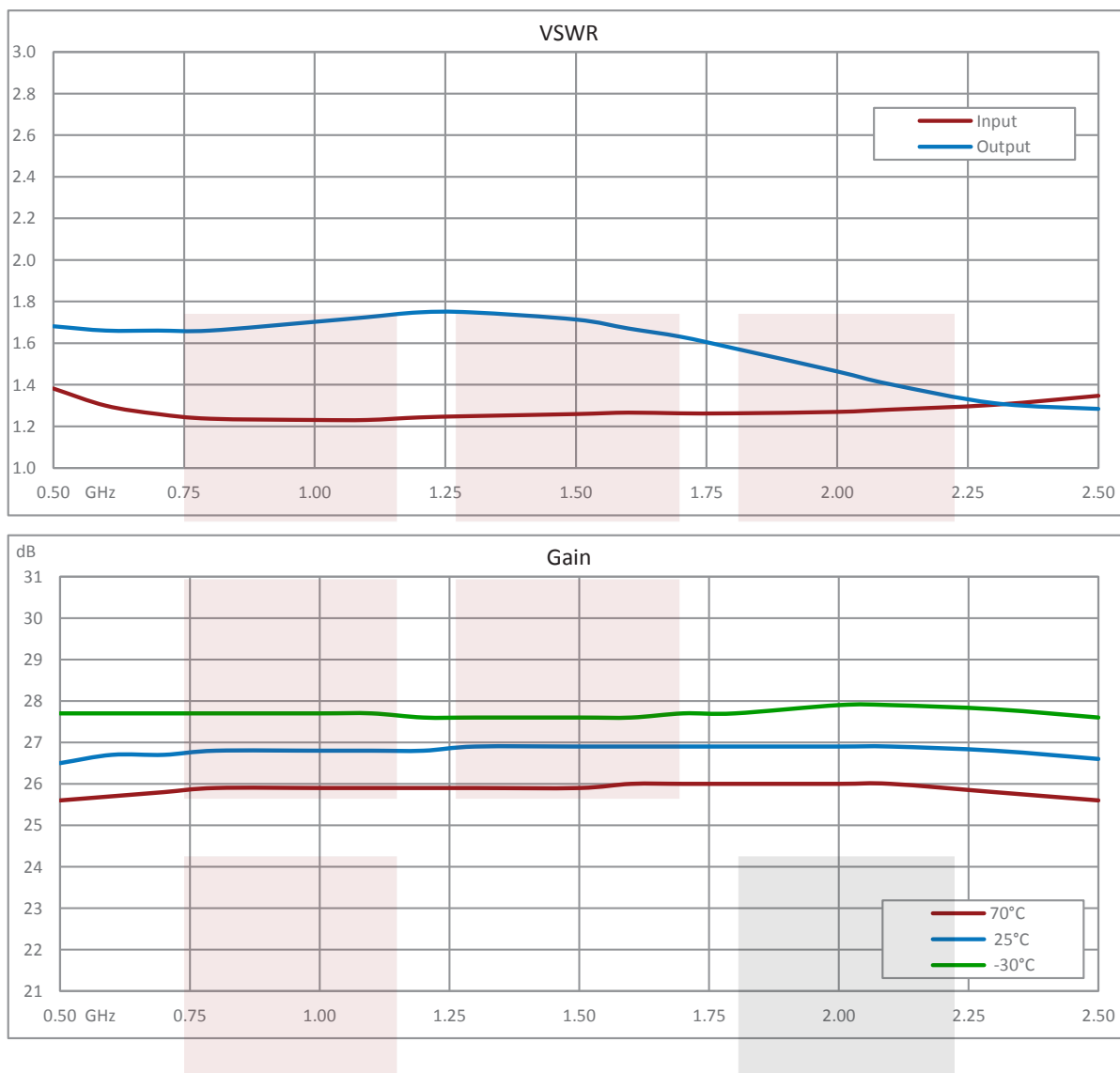
- 0.5 to 2.5 GHz Frequency Range
- P1dB: 24 dBm min
- Small Signal Gain: 23 dB min
- Gain Flatness: ± 2.0 dB max
- 50 Ohm Input and Output Matched
- -30 to $+70^{\circ}\text{C}$ Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator

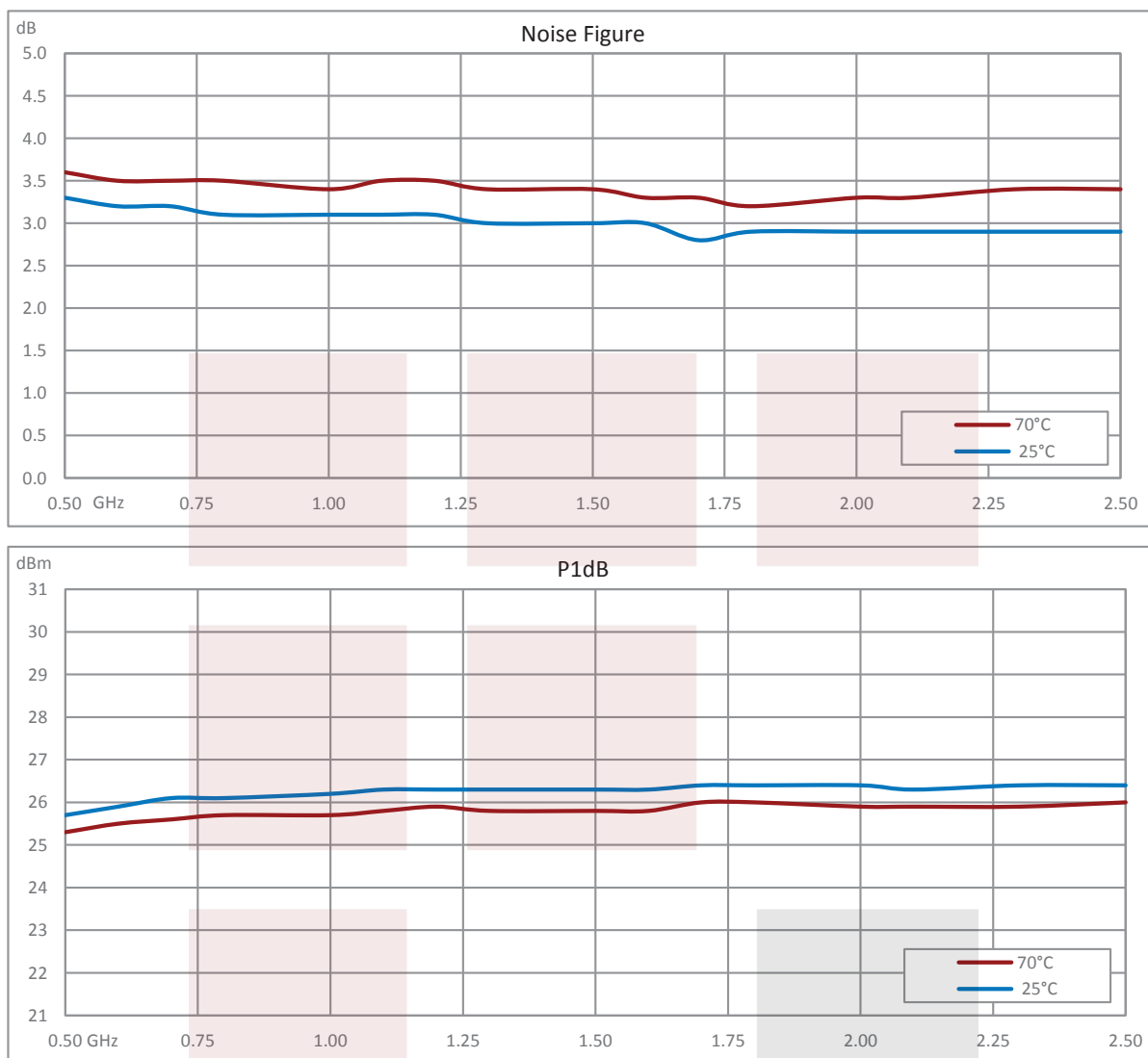
Applications:

- Laboratory Applications
- R&D Labs
- Test Instrumentation
- Military & Space
- Communication Systems
- Satellite Communications
- Wireless Communications
- Unmanned Systems
- Microwave Radio Systems
- Low Noise Amplifier
- General Purpose Amplification
- RF Front Ends

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Typical Performance Data



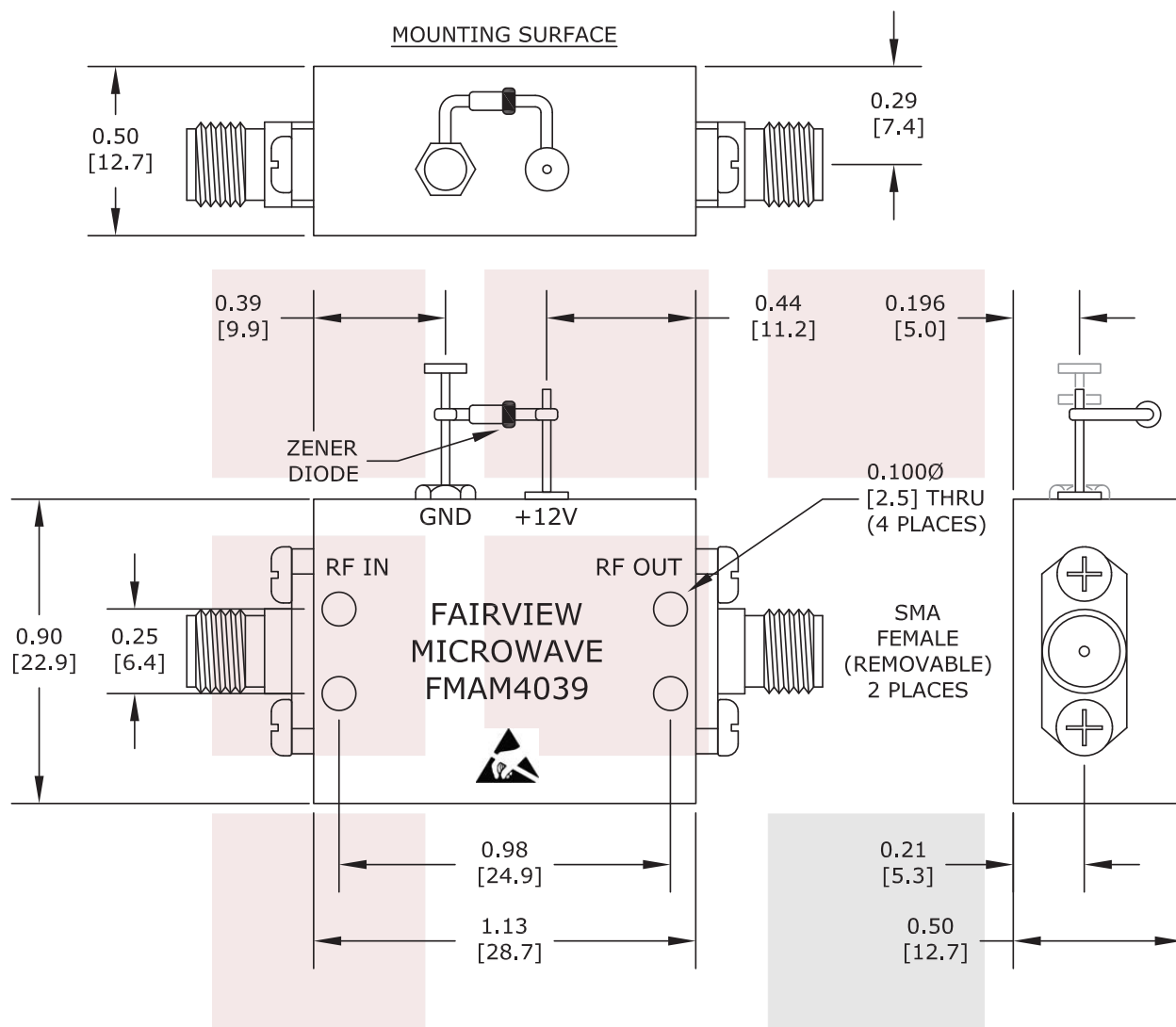


500 MHz to 2.5 GHz, Medium Power Broadband Amplifier with 24 dBm, 24 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [500 MHz to 2.5 GHz, Medium Power Broadband Amplifier with 24 dBm, 24 dB Gain and SMA FMAM4039](https://www.fairviewmicrowave.com/500-mhz-2.5-ghz-medium-power-broadband-amplifier-fmam4039-p.aspx)

URL: <https://www.fairviewmicrowave.com/500-mhz-2.5-ghz-medium-power-broadband-amplifier-fmam4039-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



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

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TITLE 500 MHz to 2.5 GHz, Medium Power Broadband Amplifier with 24 dBm, 24 dB Gain and SMA	DWG NO FMAM4039		CAGE CODE 3FKR5		
	CAD FILE 032217	SHEET	SCALE N/A	SIZE A	2233