Fairview Microwave
RF COMPONENTS ON DEMAND. Done!

FMAM4039
DATA SHEET

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 -20°C to 85°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
Operating Temperature Range (OTR)	-30		+70	°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	0.072 lbs [32.66 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:

- Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.
- Heat Sink Required for Proper Operation, Unit is cooled by conduction to heat sink.

Features:

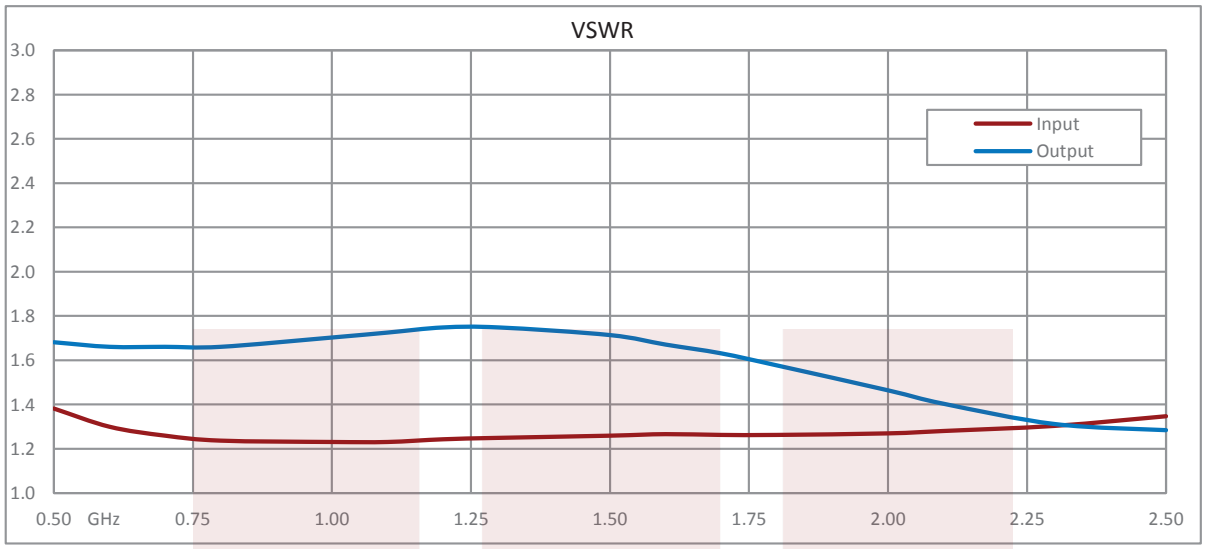
- 0.5 to 2.5 GHz Frequency Range
- P1dB: 24 dBm min
- Small Signal Gain: 23 dB min
- Gain Flatness: ±2.0 dB max
- 50 Ohm Input and Output Matched
- -20 to +85°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator

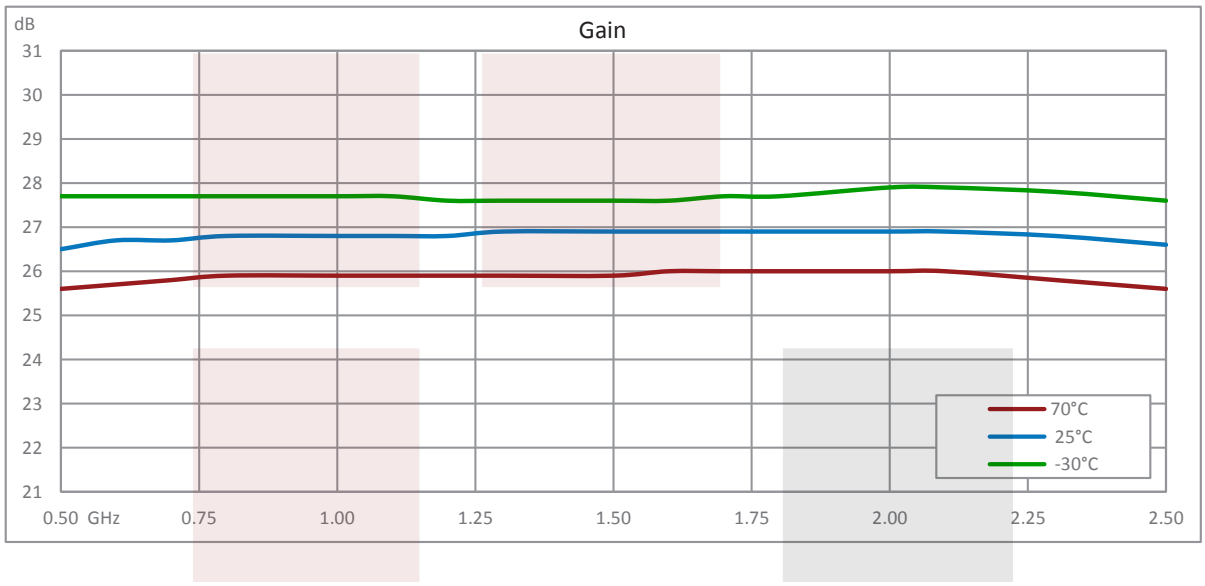
Applications:

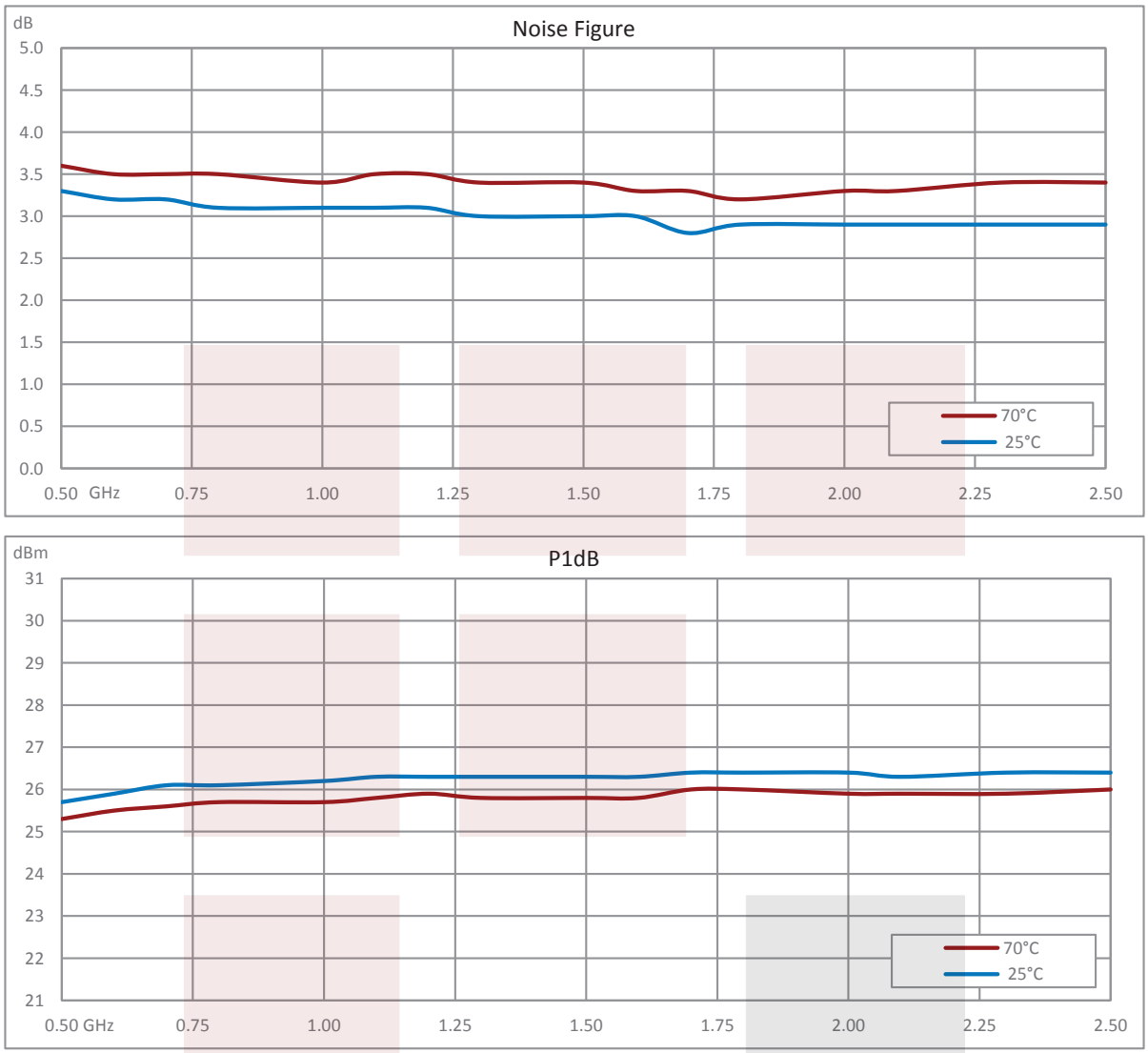
- Laboratory Applications
- R&D Labs
- Test Instrumentation
- Military & Space
- Communication Systems
- Satellite Communications
- Wireless Communications
- Unmanned Systems
- Microwave Radio Systems
- Low Noise Amplifier
- General Purpose Amplification
- RF Front Ends

Fairview Microwave
1130 Junction Dr. #100
Allen, TX 75013
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Typical Performance Data



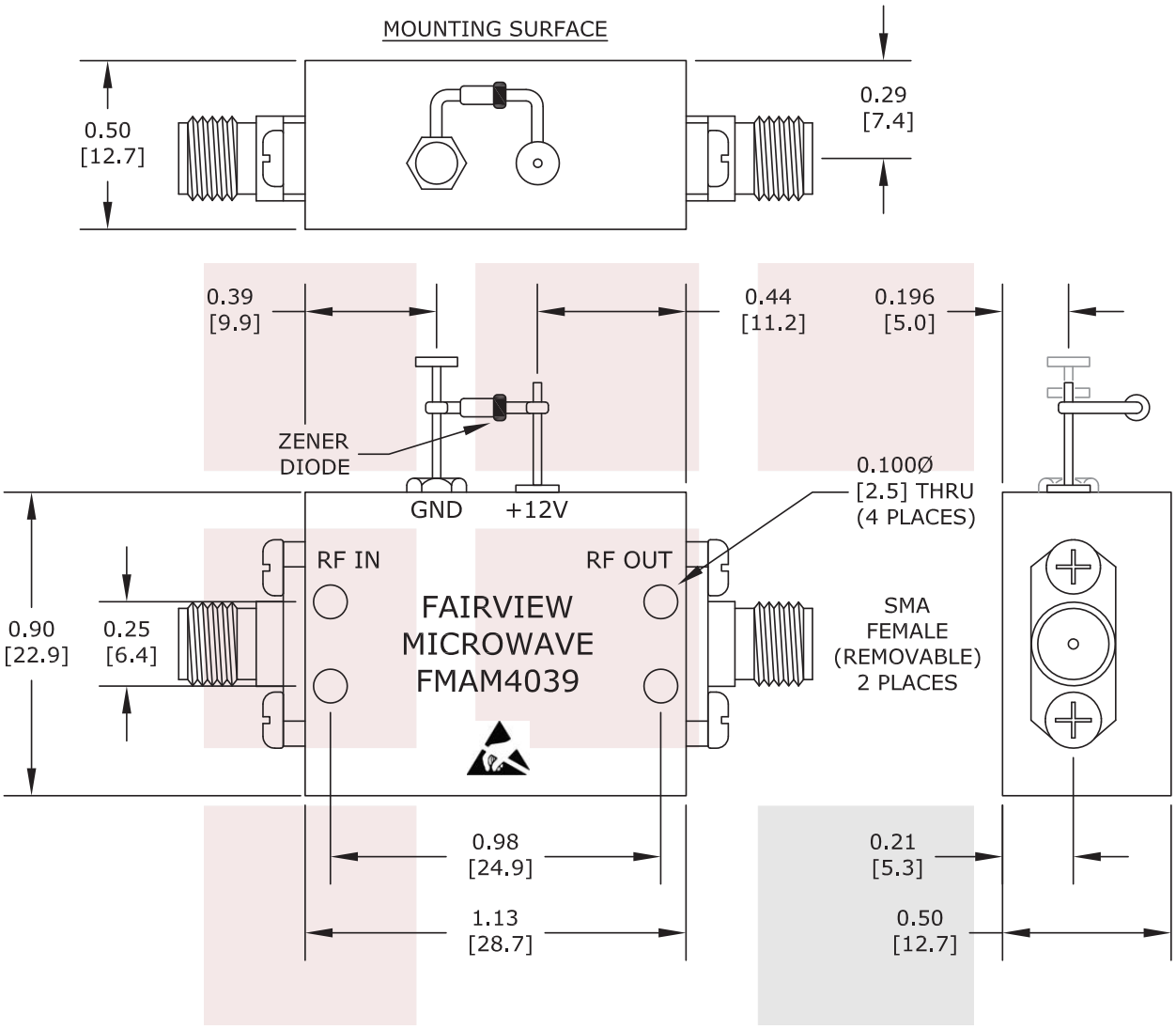




500 MHz to 2.5 GHz, Medium Power Broadband Amplifier with 24 dBm, 24 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

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

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



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

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].
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