

500 MHz to 2 GHz, with 24 dBm, 14 dB Gain and SMA

FMAM4038 is a broadband coaxial power amplifier, operating in the 0.5 to 2 GHz frequency range. The amplifier offers 24 dBm of P1dB min and 14 dB small signal gain typ, with the gain flatness of ± 0.4 dB typ. 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	GHz
Gain	13	14		dB
Gain Flatness		± 0.4	± 0.5	dB
P1dB	+24			dBm
IP3		+34		dBm
Noise Figure		2.7		dB
Input VSWR		2:1		
Output VSWR		2:1		
Operating DC Voltage 1	11	12	15	Volts
Operating DC Current		180	200	mA
Operating Temperature Range (OTR)	-30		+70	$^{\circ}\text{C}$

Mechanical Specifications

Size	
Length	1.1 in [27.94 mm]
Width	0.9 in [22.86 mm]
Height	0.5 in [12.7 mm]
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature	
Operating Range	-30 to $+70$ deg C
ESD Sensitivity	ESD Sensitive Material, Transport in Approved ESD bags. Handle only in approved ESD Workstation.



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

Plotted and Other Data

- Notes:
- Values at 25 $^{\circ}\text{C}$, sea level



Features:

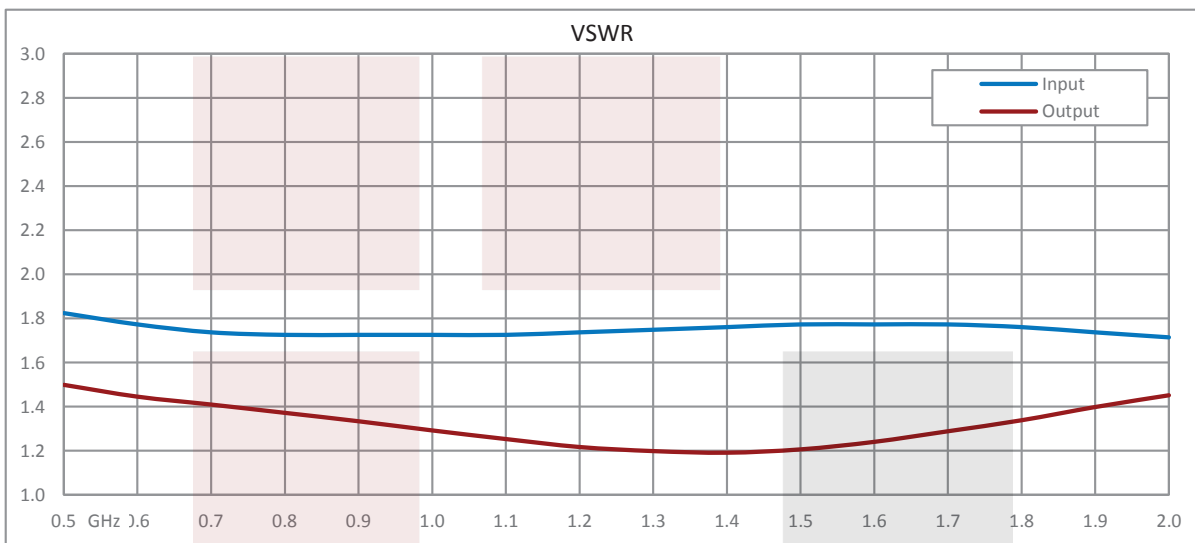
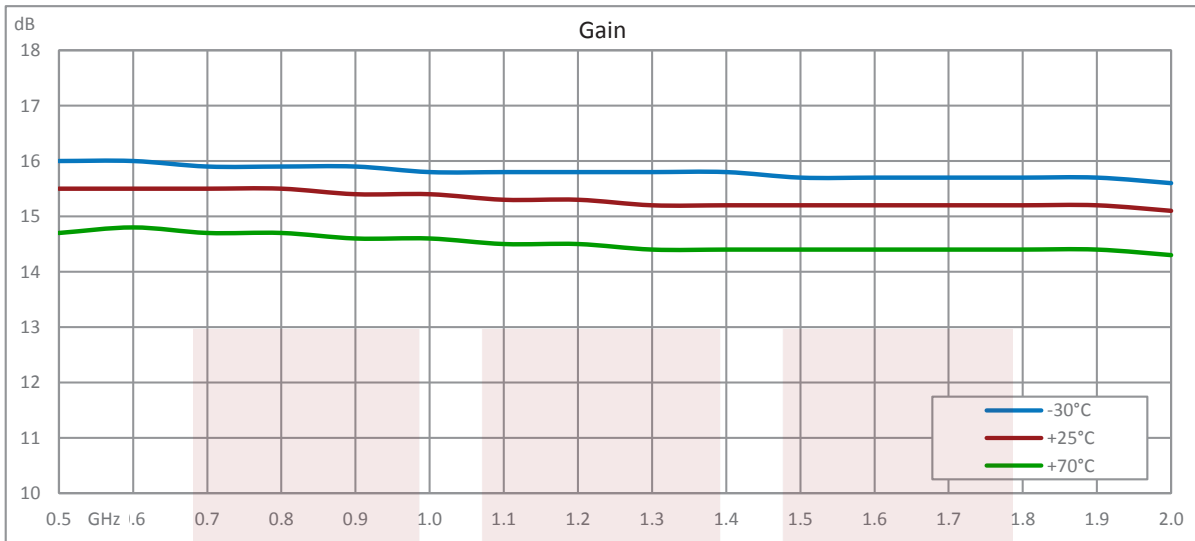
- 0.5 to 2 GHz Frequency Range
- P1dB: 24 dBm min
- Small Signal Gain: 14 dB typ
- Gain Flatness: ± 0.4 dB typ
- 50 Ohm Input and Output Matched
- -30 to $+70^{\circ}\text{C}$ Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator

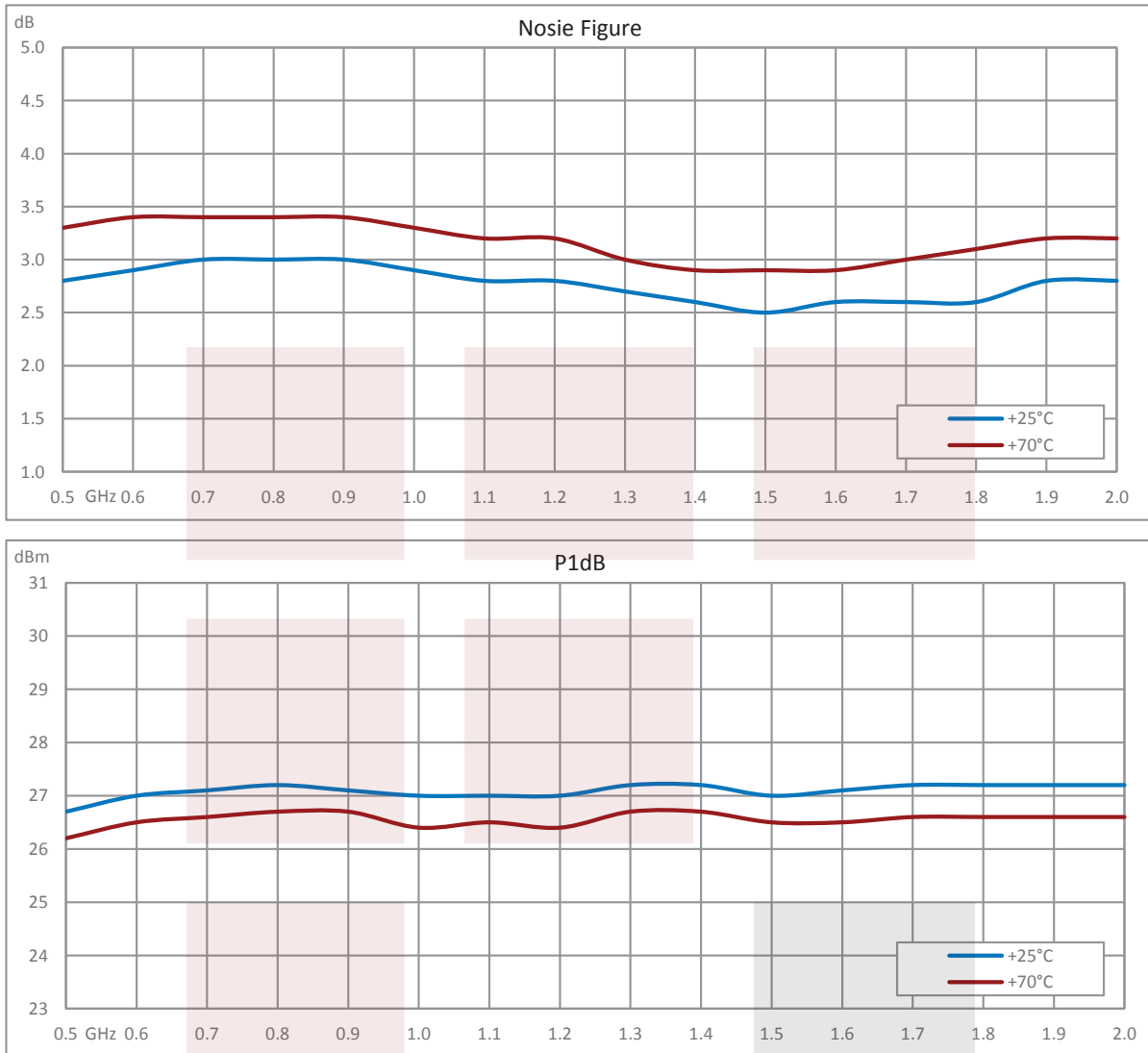
Applications:

- 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



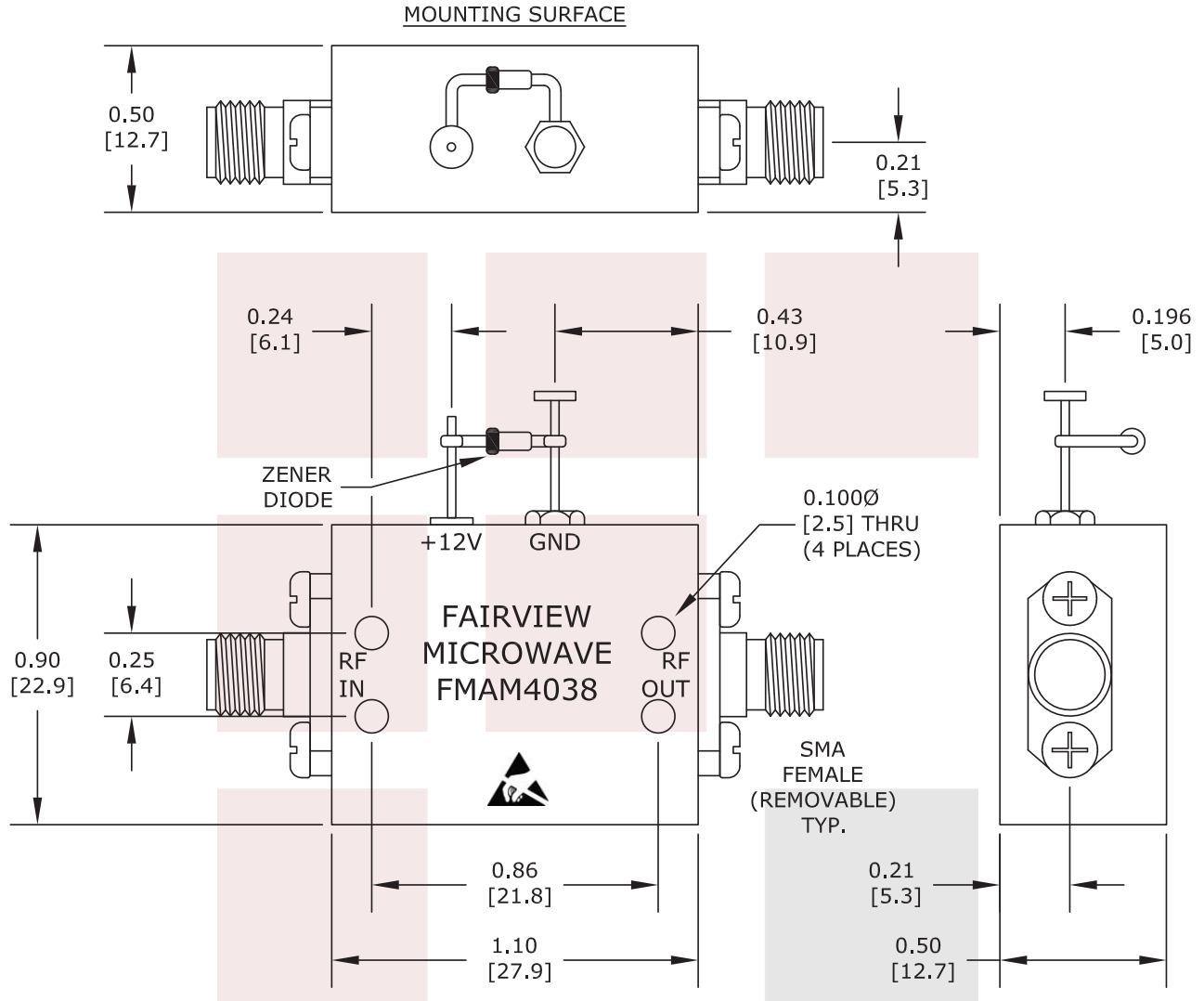


500 MHz to 2 GHz, with 24 dBm, 14 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [500 MHz to 2 GHz, with 24 dBm, 14 dB Gain and SMA FMAM4038](https://www.fairviewmicrowave.com/500-mhz-2-ghz-broadband-amplifier-fmam4038-p.aspx)

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TITLE 500 MHz to 2 GHz, with 24 dBm, 14 dB Gain and SMA		DWG NO FMAM4038		CAGE CODE 3FKR5	
CAD FILE	032416	SHEET	SCALE	N/A	SIZE A 2233