

2 GHz to 6 GHz, Medium Power Broadband Amplifier with 23 dBm, 13 dB Gain and SMA

FMAM4040 is a broadband coaxial power amplifier, operating in the 2.0 to 6.0 GHz frequency range. The amplifier offers 23 dBm of P1dB min and 12 dB small signal gain min, with the gain flatness of ± 0.4 dB typ. This power amplifier requires only a single positive DC supply, is unconditionally stable, operates over the temperature range of -30°C to 70°C , and is Hermetically sealed.



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

Description	Min	Typ	Max	Unit
Frequency Range	2		6	GHz
Gain	12	13		dB
Gain Flatness		± 0.4		dB
P1dB	+23			dBm
IP3		+33		dBm
Noise Figure		5.4		dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage 1	11	12	15	Volts
Operating DC Current		180		mA
Operating Temperature Range (OTR)	-30		+70	$^{\circ}\text{C}$

Mechanical Specifications

Size	
Length	1.083 in [27.51 mm]
Width	1.093 in [27.76 mm]
Height	0.382 in [9.7 mm]
Weight	0.063 lbs [28.58 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 $^{\circ}\text{C}$, 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:

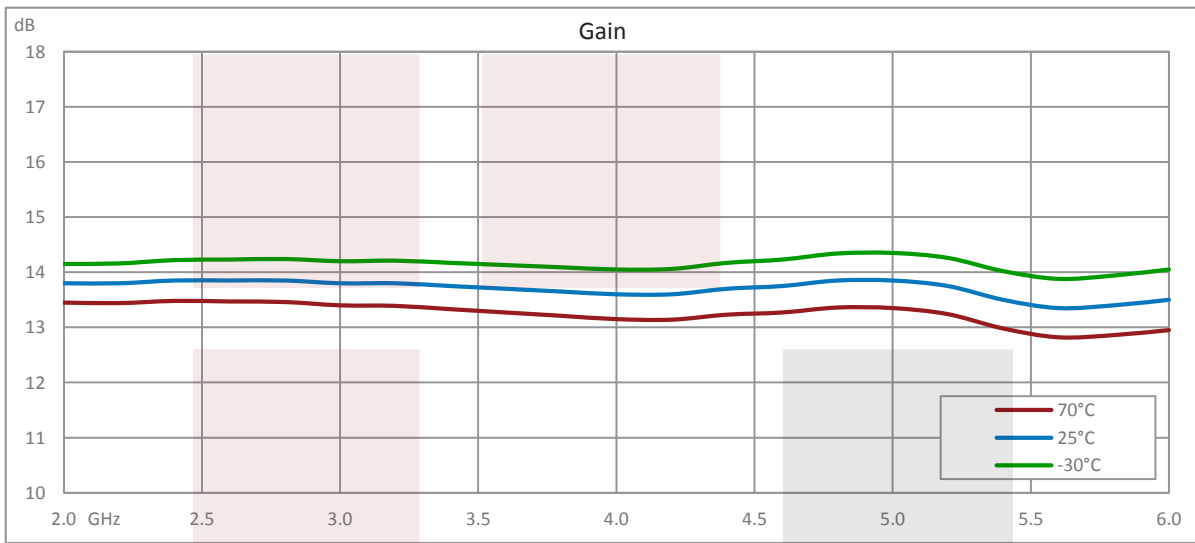
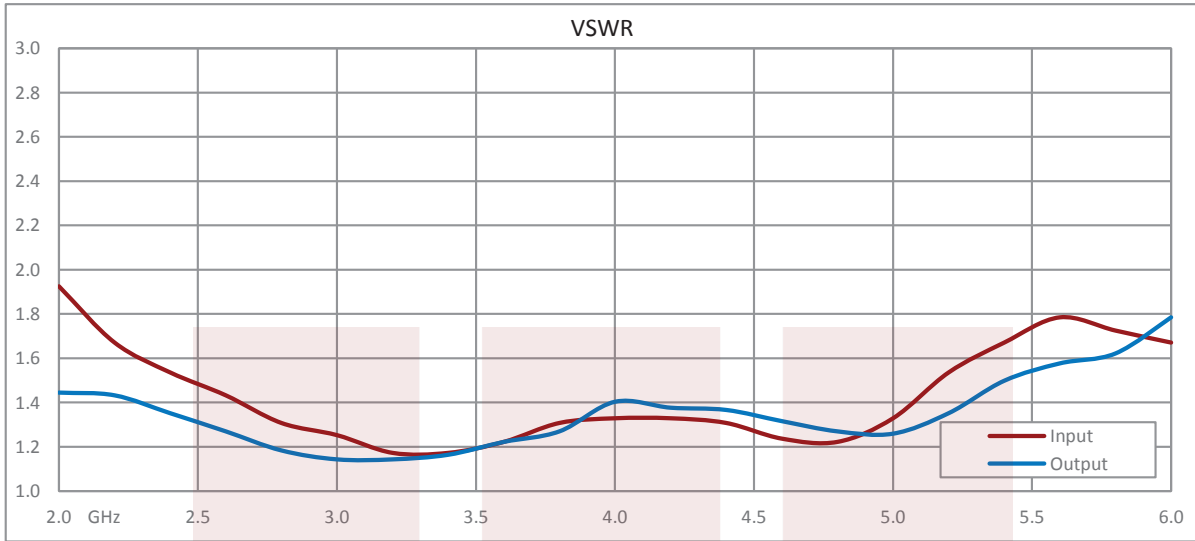
- 2.0 to 6.0 GHz Frequency Range
- P1dB: 23 dBm min
- Small Signal Gain: 13 dB typ
- Gain Flatness: ± 0.4 dB max
- 50 Ohm Input and Output Matched
- -30 to $+70^{\circ}\text{C}$ Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator

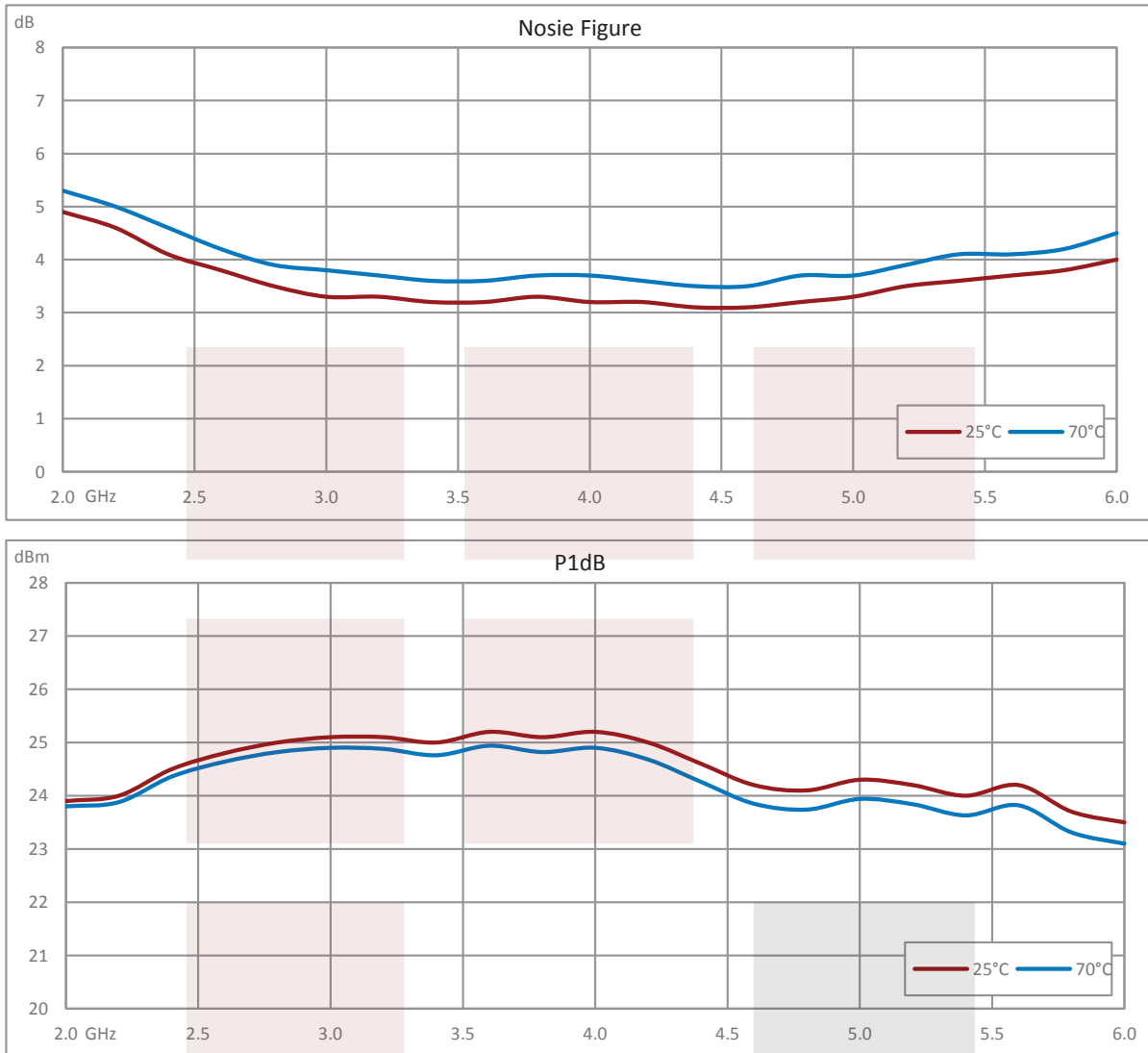
Applications:

- 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



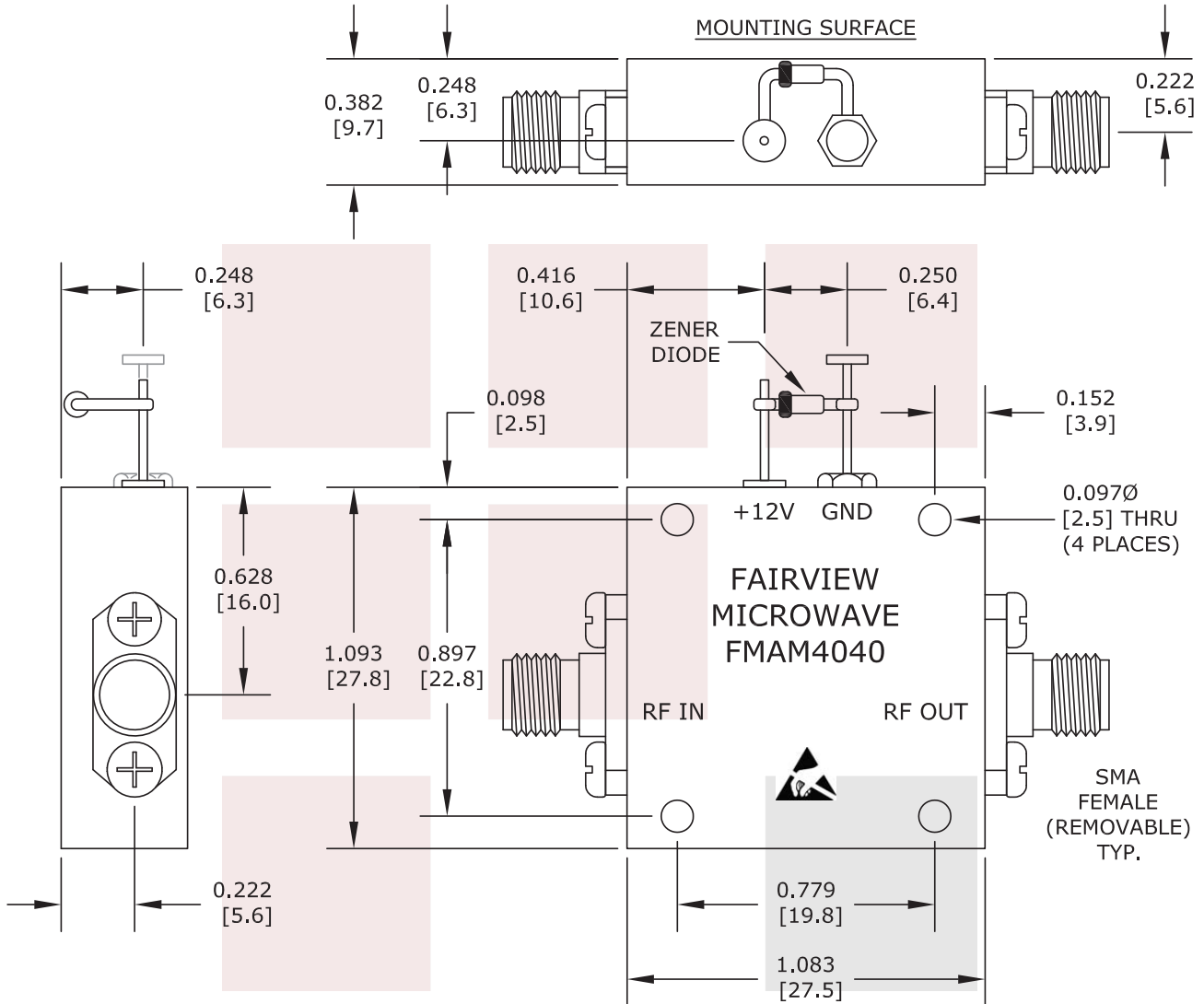


2 GHz to 6 GHz, Medium Power Broadband Amplifier with 23 dBm, 13 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 GHz to 6 GHz, Medium Power Broadband Amplifier with 23 dBm, 13 dB Gain and SMA FMAM4040](#)

URL: <https://www.fairviewmicrowave.com/2-6-ghz-medium-power-broadband-amplifier-fmam4040-p.aspx>

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TITLE 2 GHz to 6 GHz, Medium Power Broadband Amplifier with 23 dBm, 13 dB Gain and SMA		DWG NO FMAM4040		CAGE CODE 3FKR5	
CAD FILE	110716	SHEET	SCALE	N/A	SIZE A 2233