

2.5 dB NF, 2 GHz to 8 GHz, Low Noise Broadband Amplifier with 13 dBm, 30 dB Gain and SMA

FMAM3291 is a broadband coaxial low noise amplifier, operating in the 2 to 8 GHz frequency range. The amplifier offers 13 dBm of P1dB min and 30 dB small signal gain min, with the gain flatness of ± 2.0 dB max and a Noise Figure of 2.5 dB. This low noise 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	2		8	GHz
Gain	30			dB
P1dB	+13			dBm
Noise Figure		2.5		dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage 1	11	12	13	Volts
Operating DC Current		150		mA
Operating Temperature Range (OTR)	-40		+80	$^{\circ}\text{C}$

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	0.087 lbs [39.46 g]
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature	
Operating Range	-40 to +80 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 ESD Workstation.



Features:

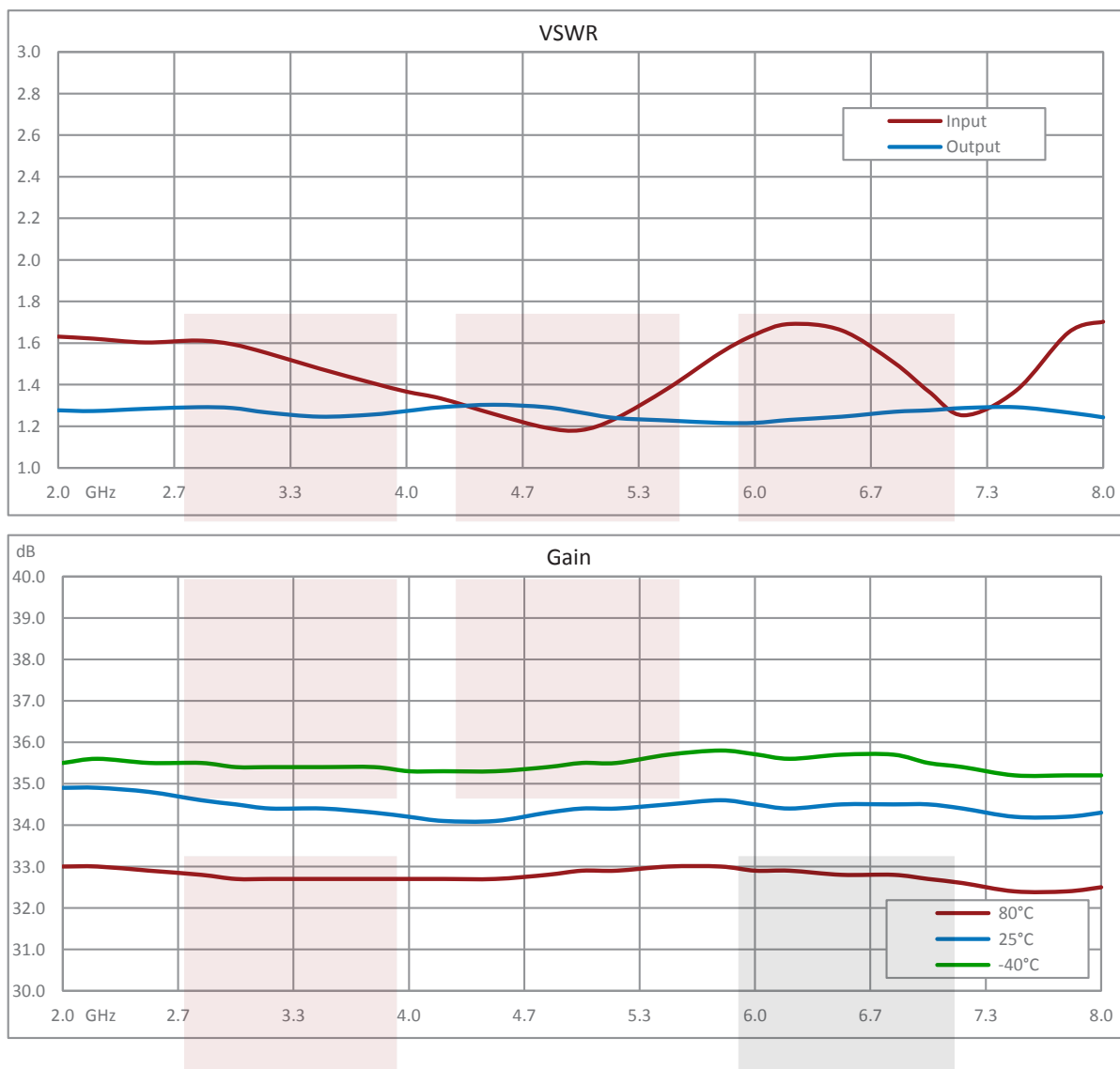
- 2 to 8 GHz Frequency Range
- P1dB: 13 dBm min
- Small Signal Gain: 30 dB min
- Gain Flatness: ± 2.0 dB max
- Noise Figure: 2.5 dB max
- 50 Ohm Input and Output Matched
- -20 to $+85^{\circ}\text{C}$ Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator

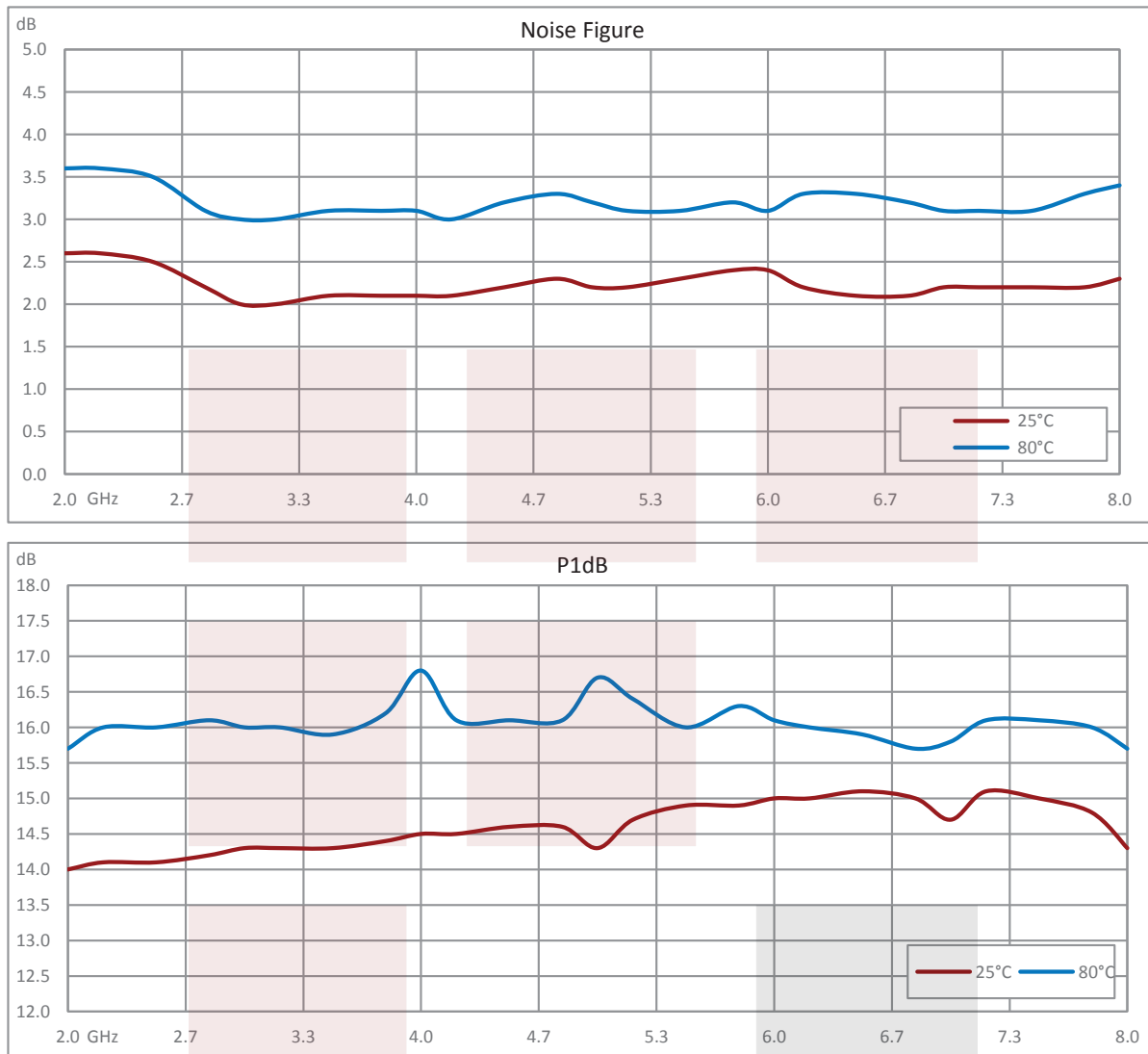
Applications:

- 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



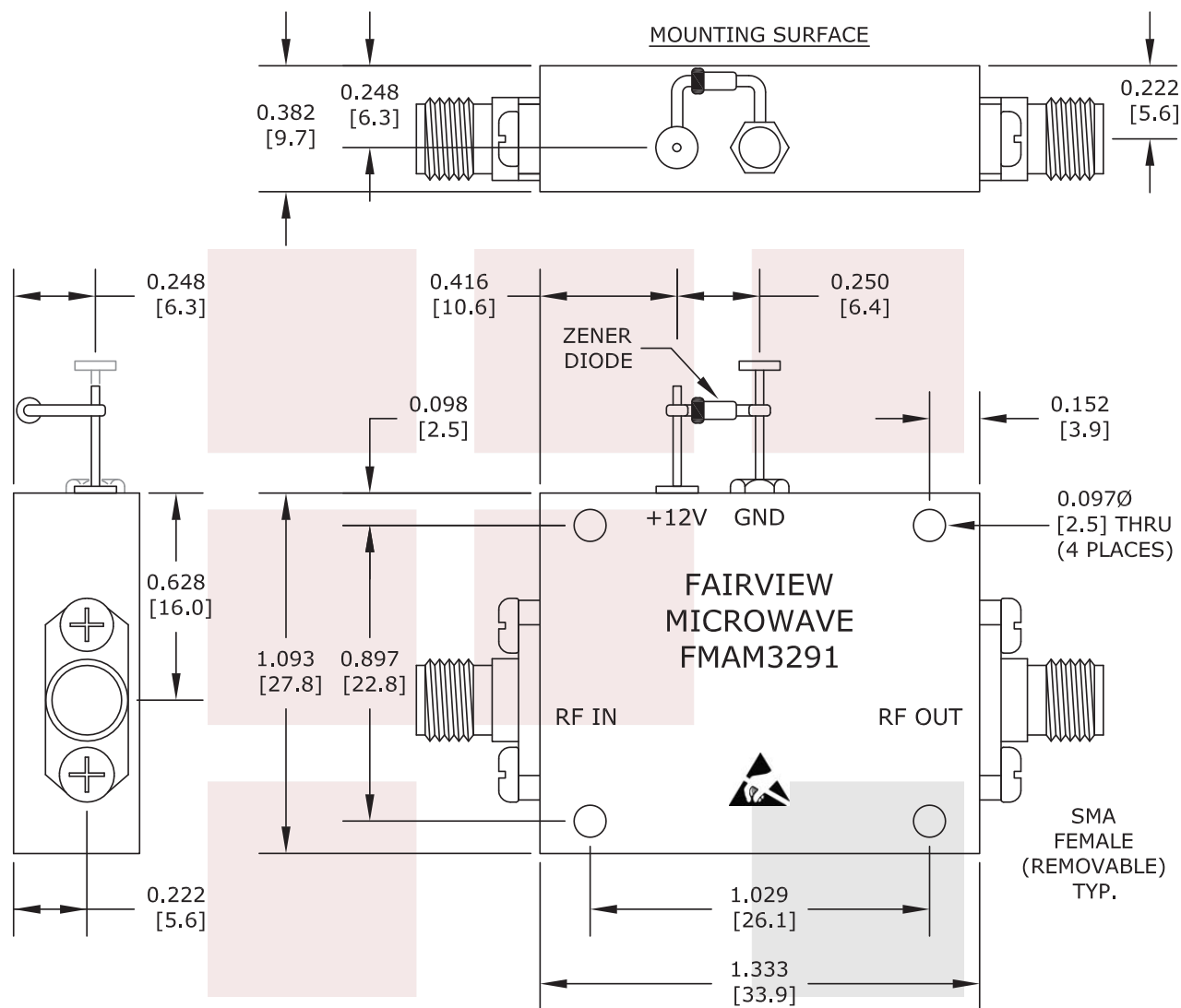


2.5 dB NF, 2 GHz to 8 GHz, Low Noise Broadband Amplifier with 13 dBm, 30 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2.5 dB NF, 2 GHz to 8 GHz, Low Noise Broadband Amplifier with 13 dBm, 30 dB Gain and SMA FMAM3291](https://www.fairviewmicrowave.com/2-8-ghz-low-noise-broadband-amplifier-fmam3291-p.aspx)

URL: <https://www.fairviewmicrowave.com/2-8-ghz-low-noise-broadband-amplifier-fmam3291-p.aspx>

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STANDARD TOLERANCES

.X ±0.2
.XX ±0.1
.XXX ±0.05

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

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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

2.5 dB NF, 2 GHz to 8 GHz, Low Noise Broadband
Amplifier with 13 dBm, 30 dB Gain and SMA

DWG NO

FMAM3291

CAGE CODE

3FKR5

CAD FILE

111016

SHEET

SCALE

N/A

SIZE

A

2233