

**3.5 dB NF, 12 GHz to 18 GHz, Low Noise Broadband Amplifier with 13 dBm, 18 dB Gain and SMA**

The FMAM3296 is a broadband coaxial low noise amplifier, operating in the 12 to 18 GHz frequency range. The amplifier offers +13 dBm of P1dB min and 18 dB small signal gain min, with a typical Noise Figure of 3.5 dB. This low noise amplifier requires only a 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	12		18	GHz
Gain	18			dB
P1dB	+13			dBm
Noise Figure		3.5		dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage 1	11	12	13	Volts
Operating DC Current		100		mA
Operating Temperature Range (OTR)	-40		+80	°C

**Mechanical Specifications**

Weight	0.061 lbs [27.67 g]
Input Connector	SMA Female
Output Connector	SMA Female

**Environmental Specifications**  
**Temperature**

Operating Range	-40 to +80 deg C
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**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 ESD Workstation.



**Features:**

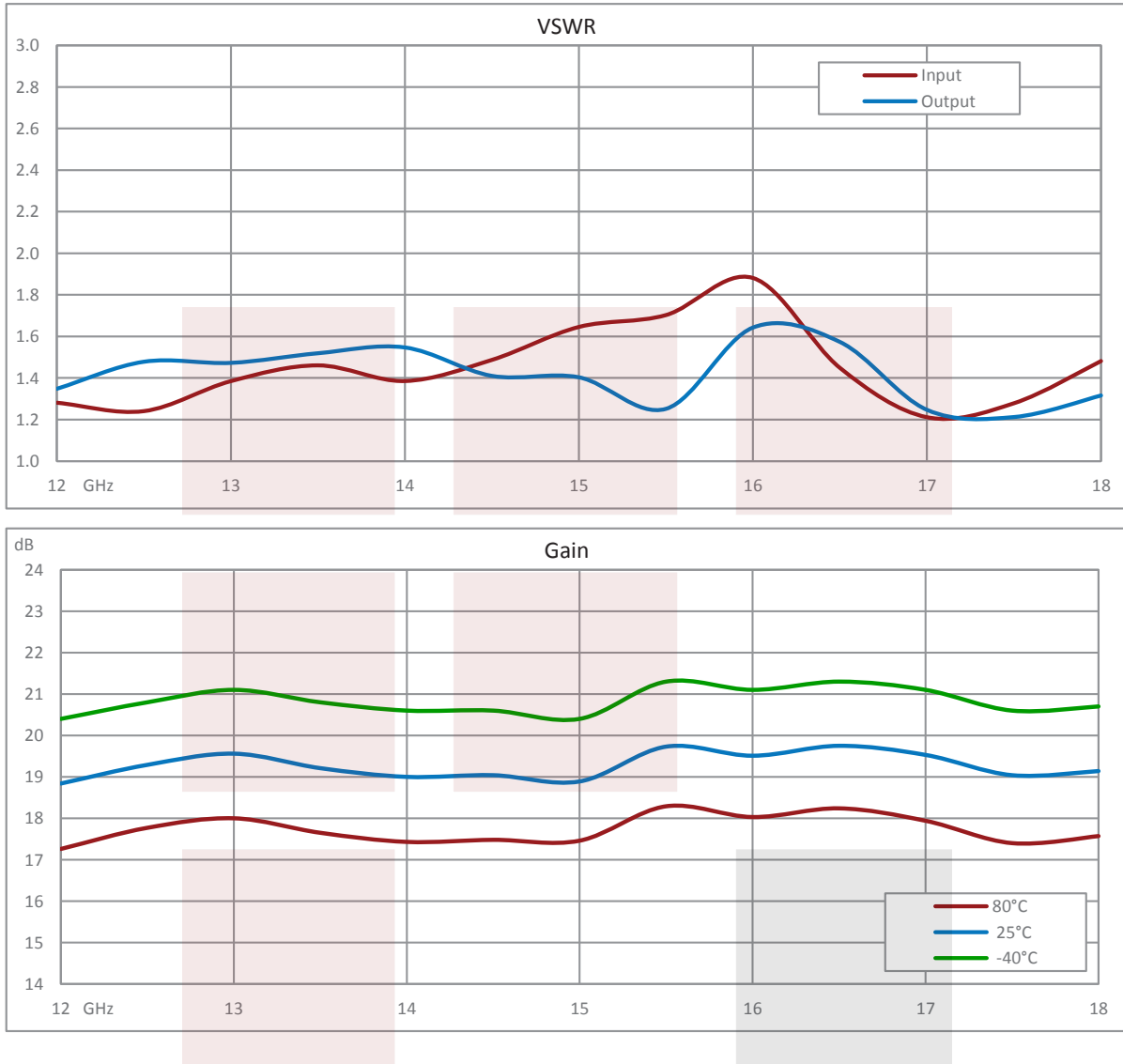
- 12 to 18 GHz Frequency Range
- P1dB: +13 dBm min
- Small Signal Gain: 18 dB min
- Noise Figure: 3.5 dB max
- 50 Ohm Input and Output Matched
- -20 to +85°C Operating Temperature
- Unconditionally Stable
- DC Positive Supply

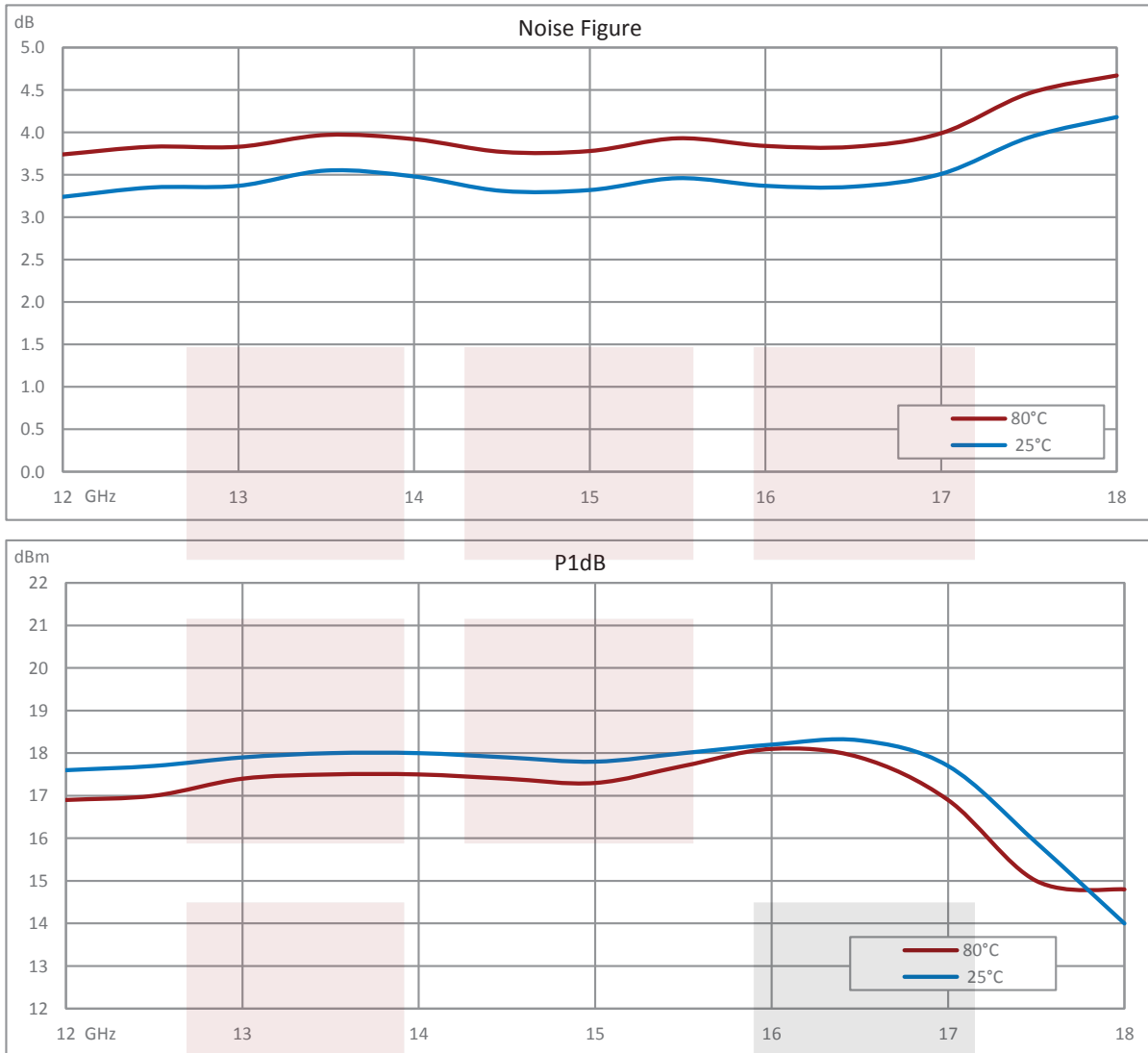
**Applications:**

- 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**



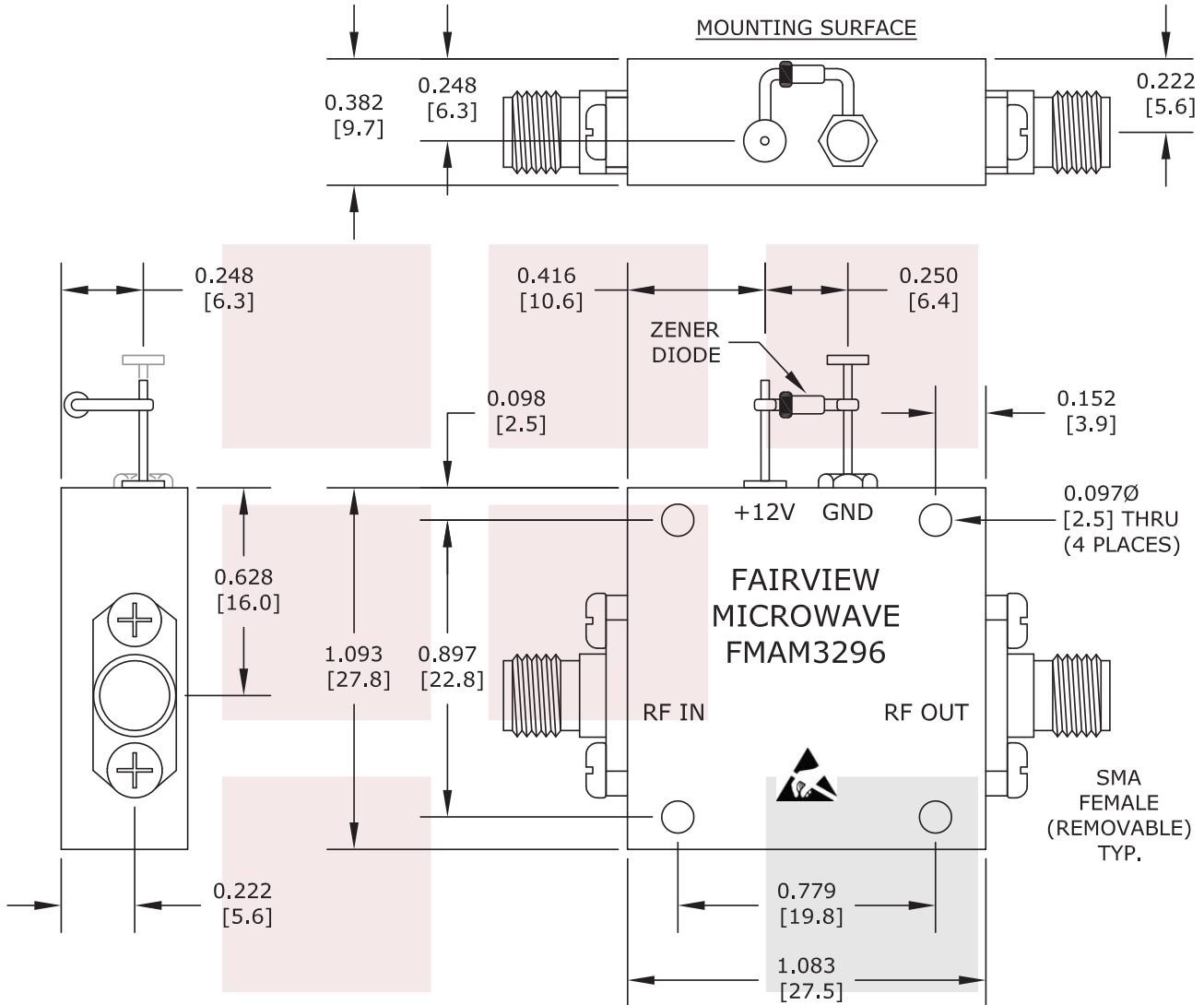


3.5 dB NF, 12 GHz to 18 GHz, Low Noise Broadband Amplifier with 13 dBm, 18 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [3.5 dB NF, 12 GHz to 18 GHz, Low Noise Broadband Amplifier with 13 dBm, 18 dB Gain and SMA FMAM3296](#)

URL: <https://www.fairviewmicrowave.com/12-18-ghz-low-noise-broadband-amplifier-fmam3296-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

<b>FAIRVIEW MICROWAVE INC.</b> 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 3.5 dB NF, 12 GHz to 18 GHz, Low Noise Broadband Amplifier with 13 dBm, 18 dB Gain and SMA		DWG NO FMAM3296		CAGE CODE 3FKR5	
CAD FILE	121616	SHEET	SCALE	N/A	SIZE A 2233