

2.5 dB NF, 6 GHz to 12 GHz, Low Noise Broadband Amplifier with 7 dBm, 17 dB Gain and SMA

FMAM3292 is a broadband coaxial low noise amplifier, operating in the 6 to 12 GHz frequency range. The amplifier offers 7 dBm of P1dB min and 17 dB small signal gain min, 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 -40°C to 80°C, and is Hermetically sealed.

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

Description	Min	Typ	Max	Unit
Frequency Range	6		12	GHz
Gain	17			dB
P1dB	+7			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		100		mA
Operating Temperature Range (OTR)	-40		+80	°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	0.0615 lbs [27.9 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 °C, sea level
 - ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



Features:

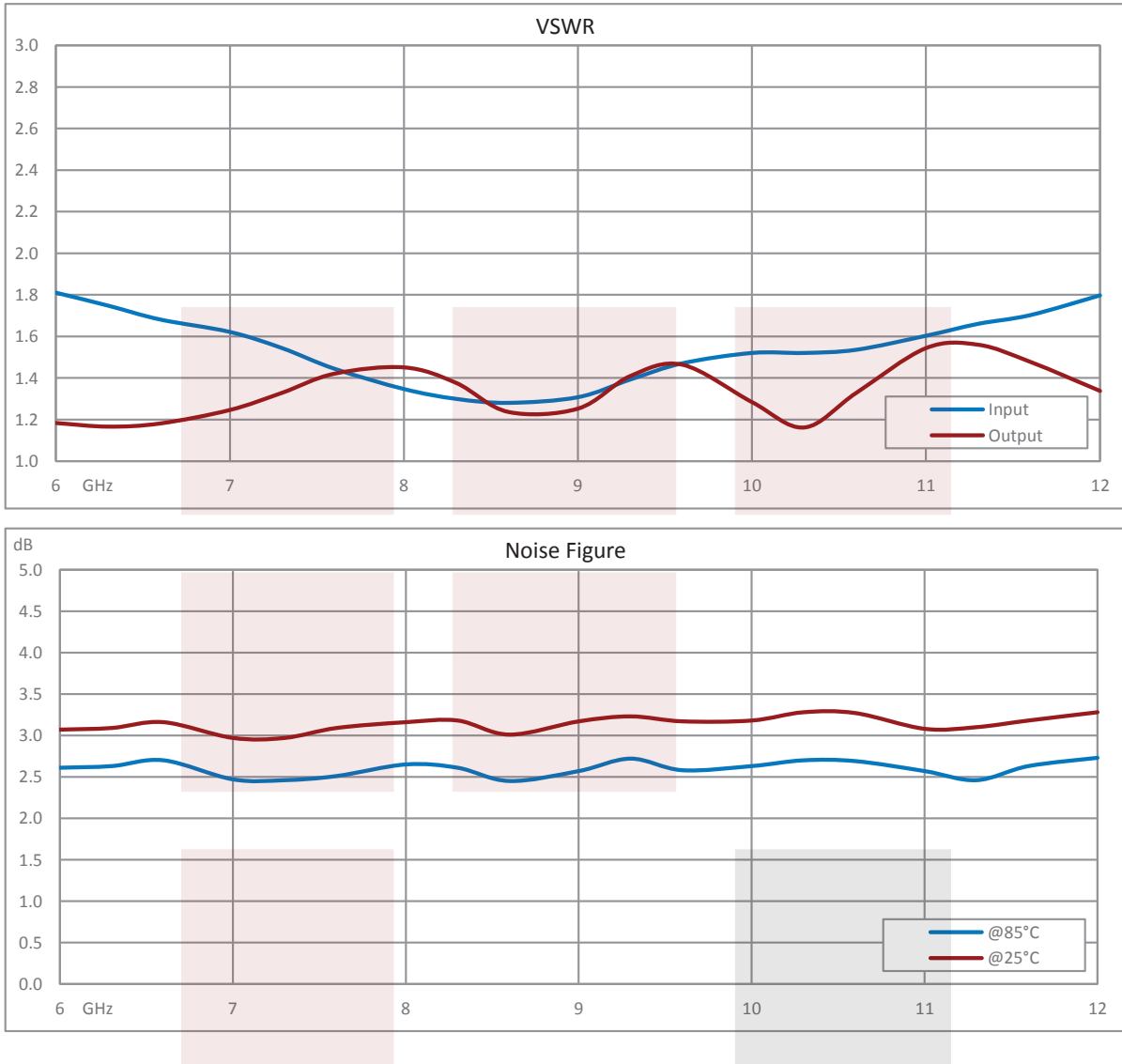
- 6 to 12 GHz Frequency Range
- P1dB: 7 dBm min
- Small Signal Gain: 17 dB min
- Noise Figure: 2.5 dB typ
- 50 Ohm Input and Output Matched
- -40 to +80°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator

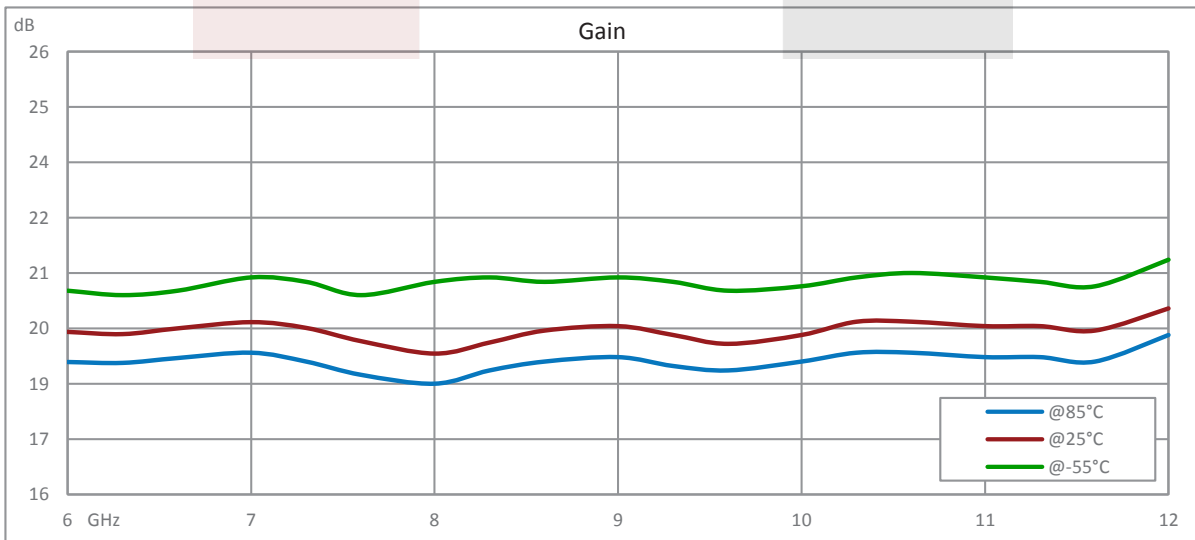
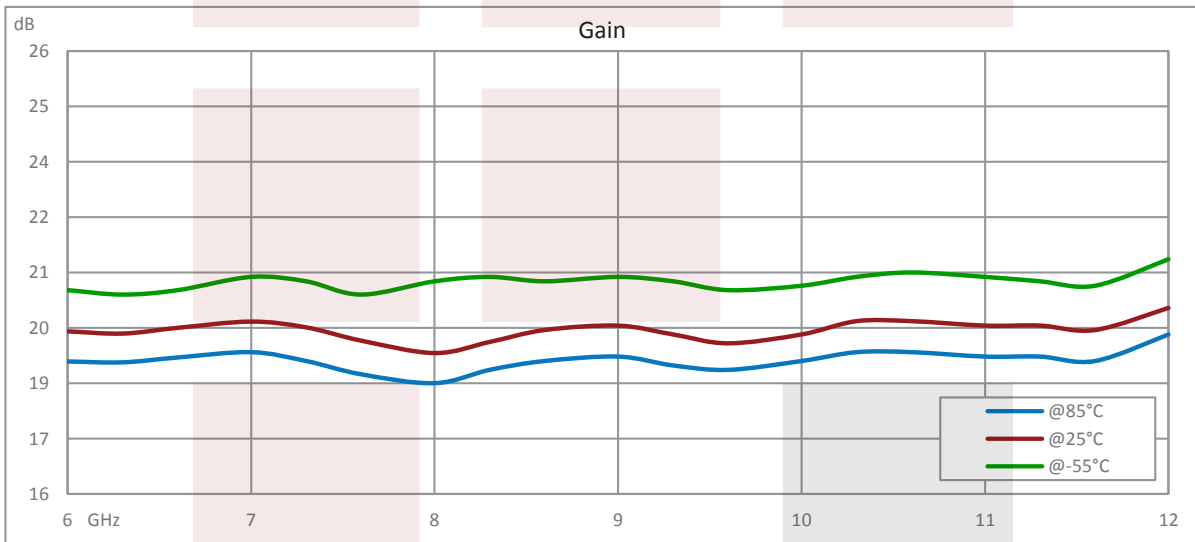
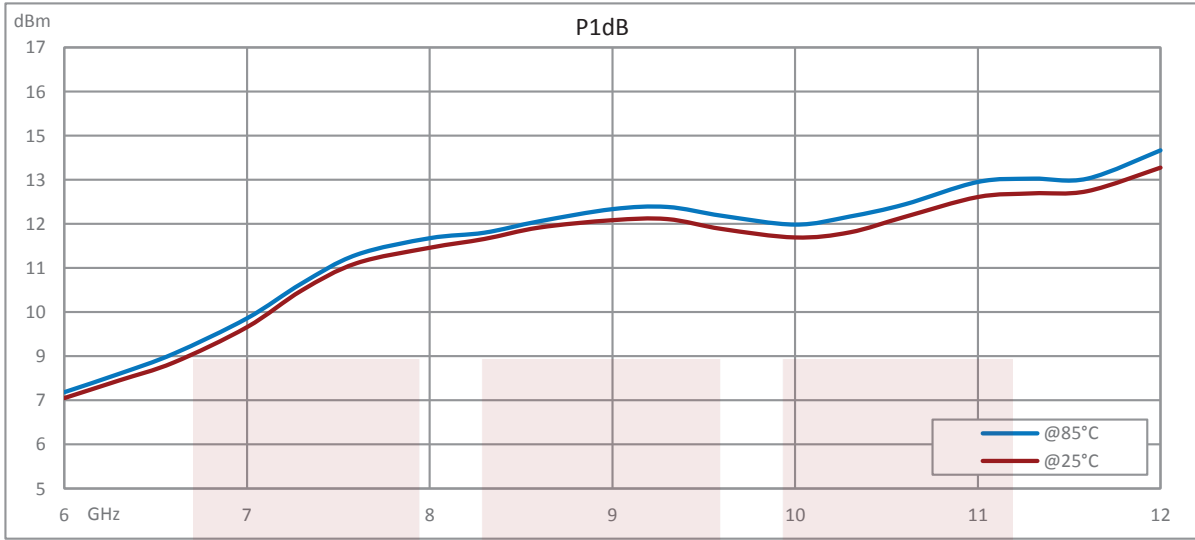
Applications:

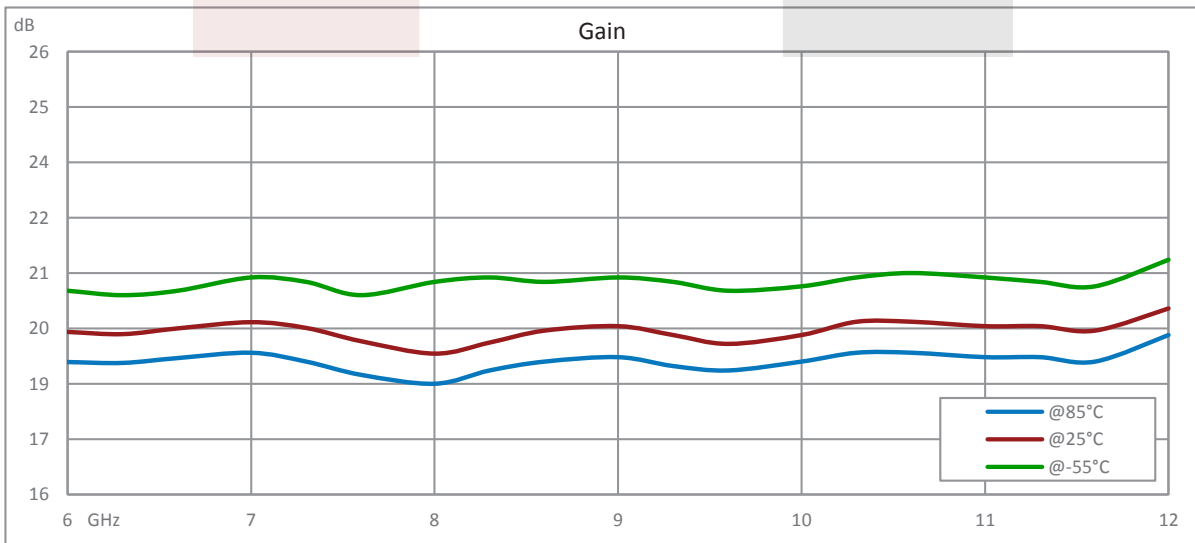
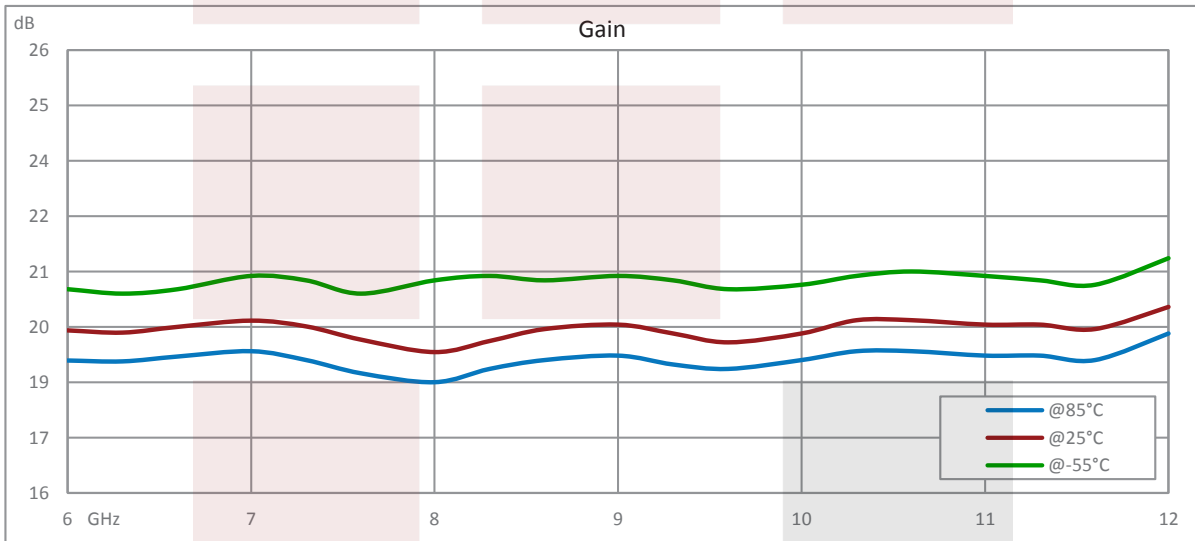
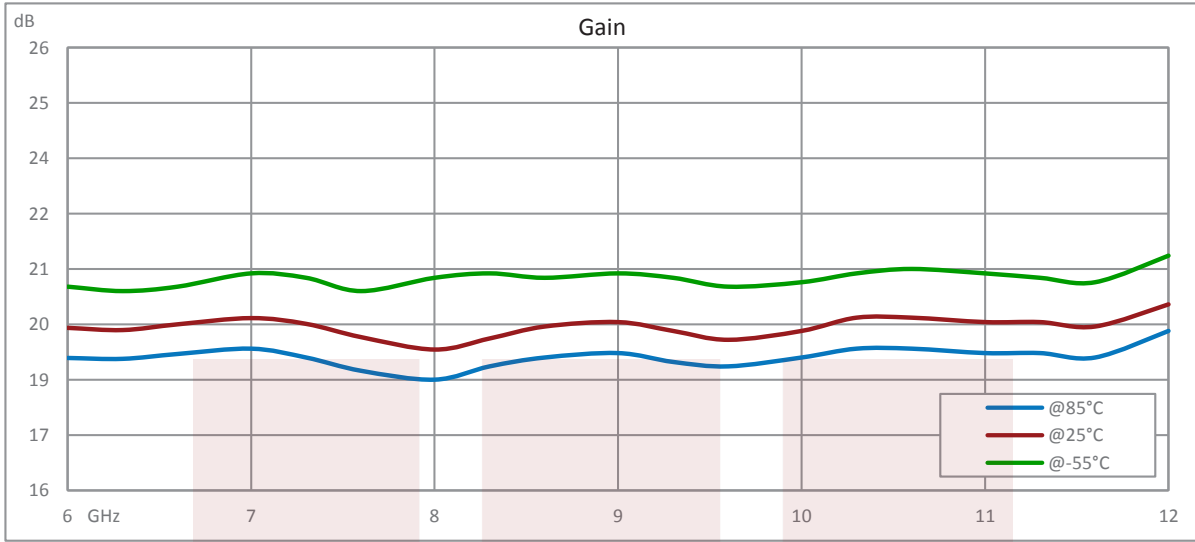
- Laboratory Applications
- R&D Labs
- Test Instrumentation
- Military & Space
- Communication Systems
- Satellite Communications
- Wireless Communications
- Unmanned Systems
- Microwave Radio Systems
- Low Noise Amplifier
- General Purpose Amplification
- RF Front Ends

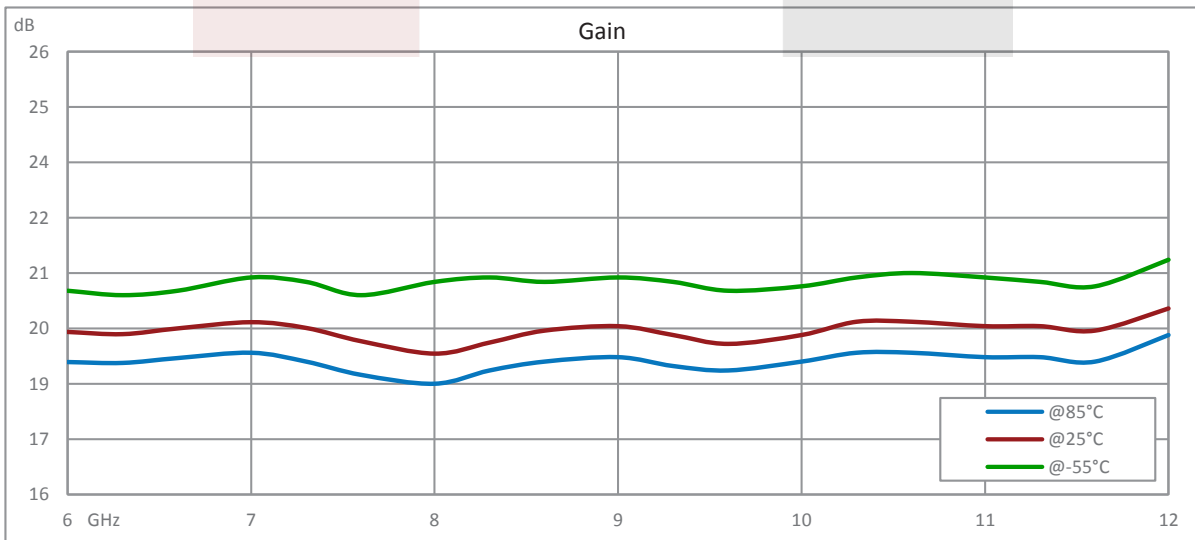
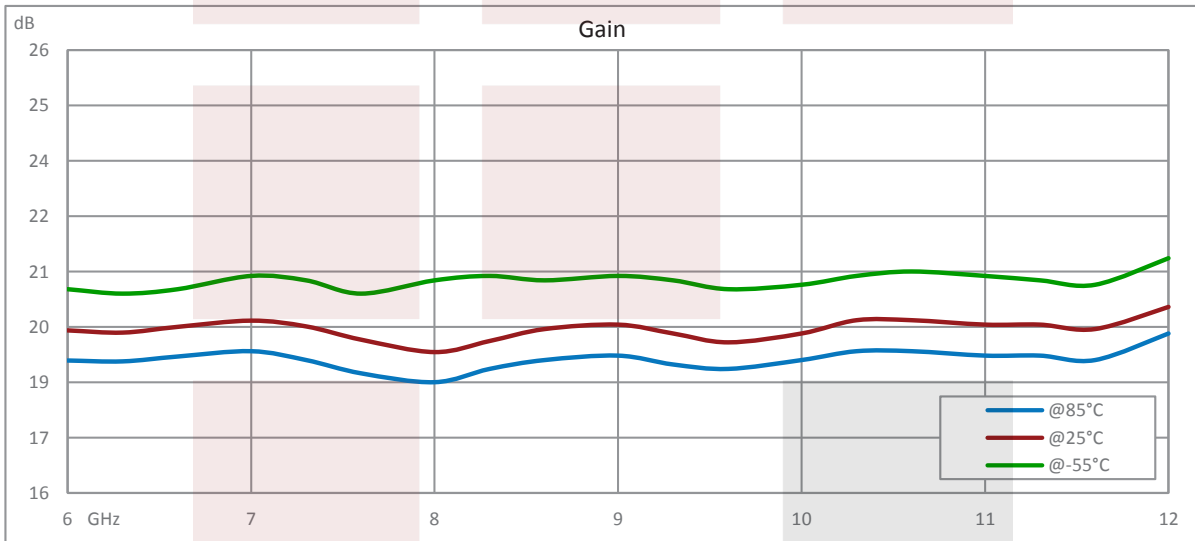
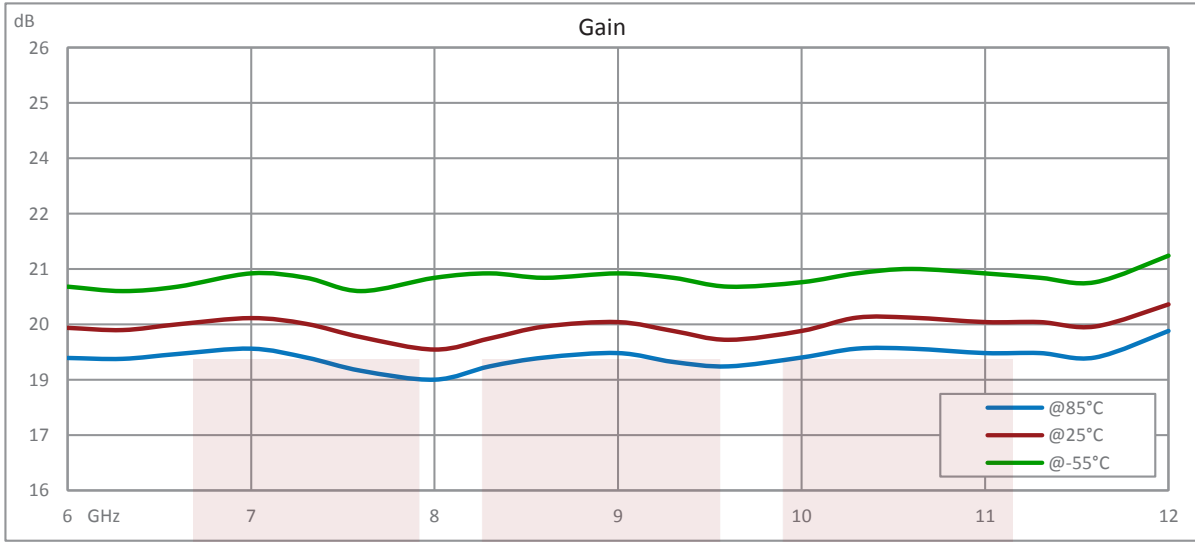
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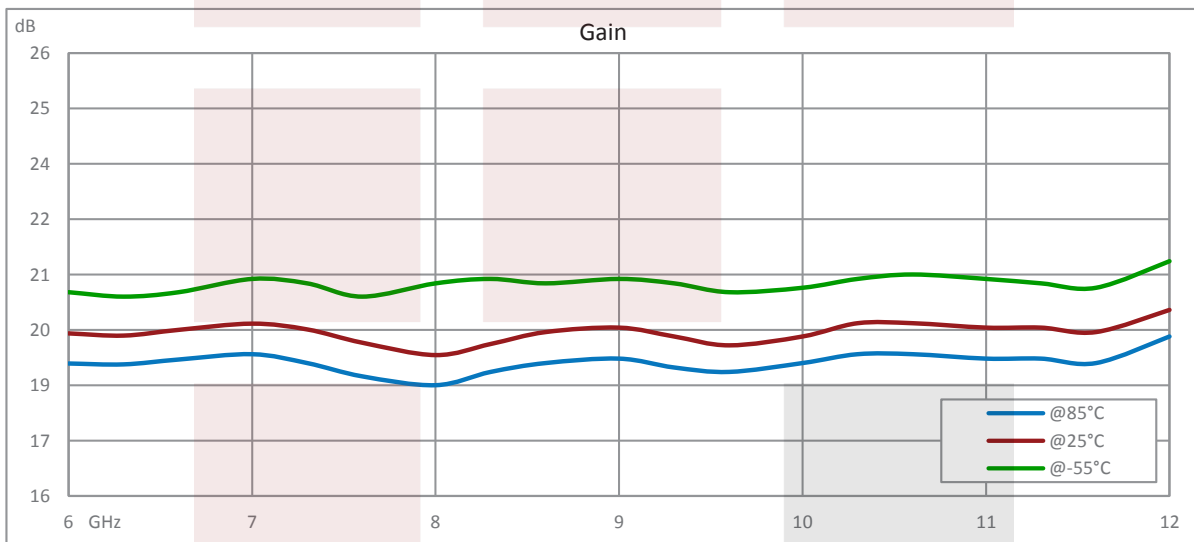
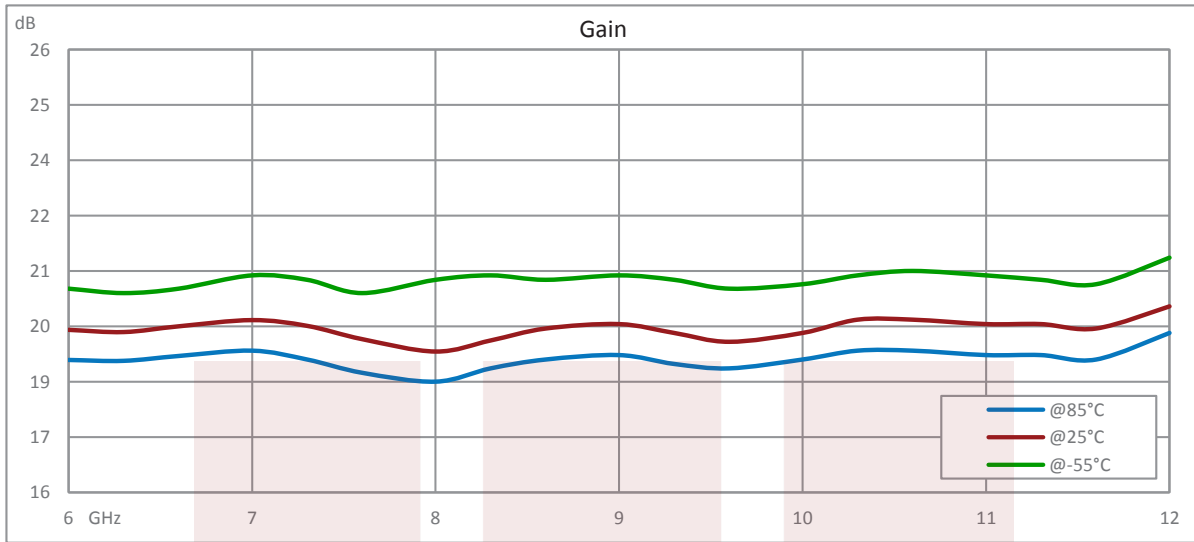
Typical Performance Data









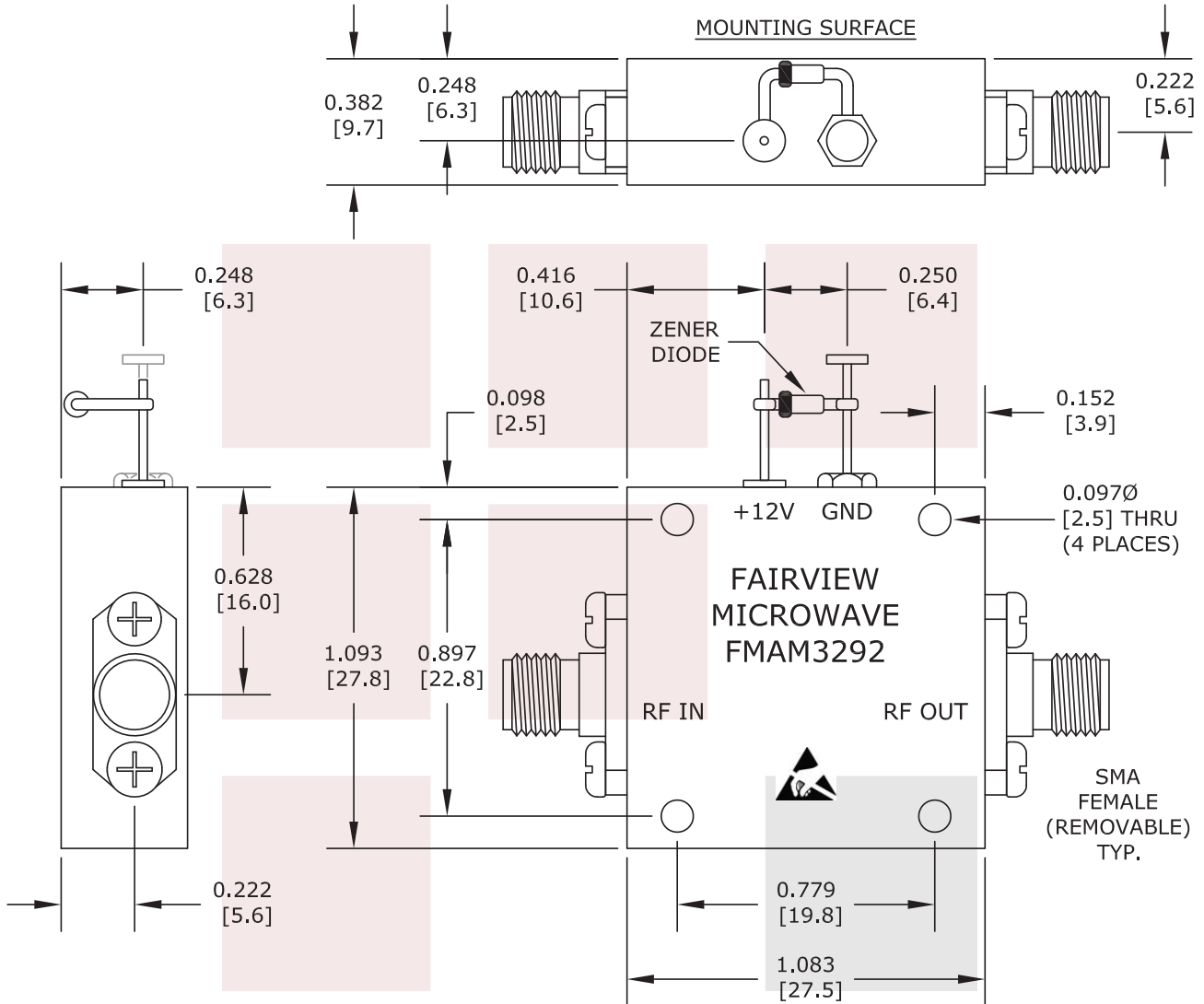


2.5 dB NF, 6 GHz to 12 GHz, Low Noise Broadband Amplifier with 7 dBm, 17 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2.5 dB NF, 6 GHz to 12 GHz, Low Noise Broadband Amplifier with 7 dBm, 17 dB Gain and SMA FMAM3292](#)

URL: <https://www.fairviewmicrowave.com/6-12-ghz-low-noise-broadband-amplifier-fmam3292-p.aspx>

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TITLE 2.5 dB NF, 6 GHz to 12 GHz, Low Noise Broadband Amplifier with 7 dBm, 17 dB Gain and SMA		DWG NO FMAM3292		CAGE CODE 3FKR5	
CAD FILE	032116	SHEET	SCALE	N/A	SIZE A 2233