

3 dB NF, 6 GHz to 18 GHz, Low Noise Broadband Amplifier with 13 dBm, 14 dB Gain and SMA

FMAM3295 is a broadband coaxial low noise amplifier, operating in the 6 to 18 GHz frequency range. The amplifier offers 13 dBm of P1dB min and 14 dB small signal gain min, with the gain flatness of ± 2.0 dB max and a Noise Figure of 3.0 dB. This low noise amplifier requires only a single positive DC supply, is 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	6		18	GHz
Gain	14			dB
P1dB	+13	+13		dBm
Noise Figure		3		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

Absolute Maximum Rating

Parameter	Rating	Units
Source Voltage	+15	Volts
RF input Power	+17	dBm
Operating Temperature (base-plate)	-30 to +70	°C
Storage Temperature	-55 to +85	°C



ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

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	0.006 lbs [2.72 g]
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature	
Operating Range	-40 to +80 deg C



Features:

- 6 to 18 GHz Frequency Range
- P1dB: 13 dBm min
- Small Signal Gain: 14 dB min
- Gain Flatness: ± 2.0 dB max
- Noise Figure: 3.0 dB max
- 50 Ohm Input and Output Matched
- -20 to +85°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

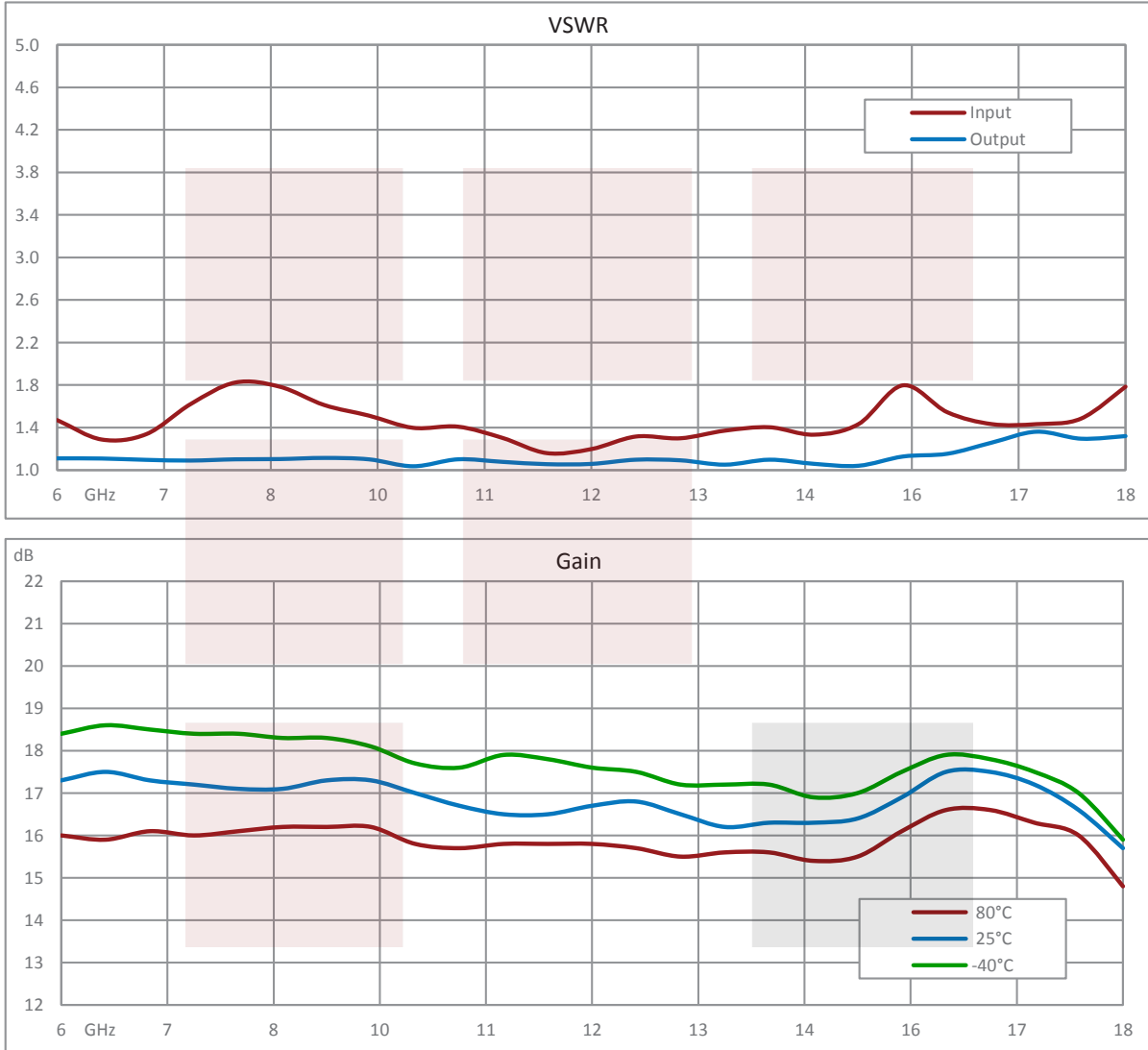
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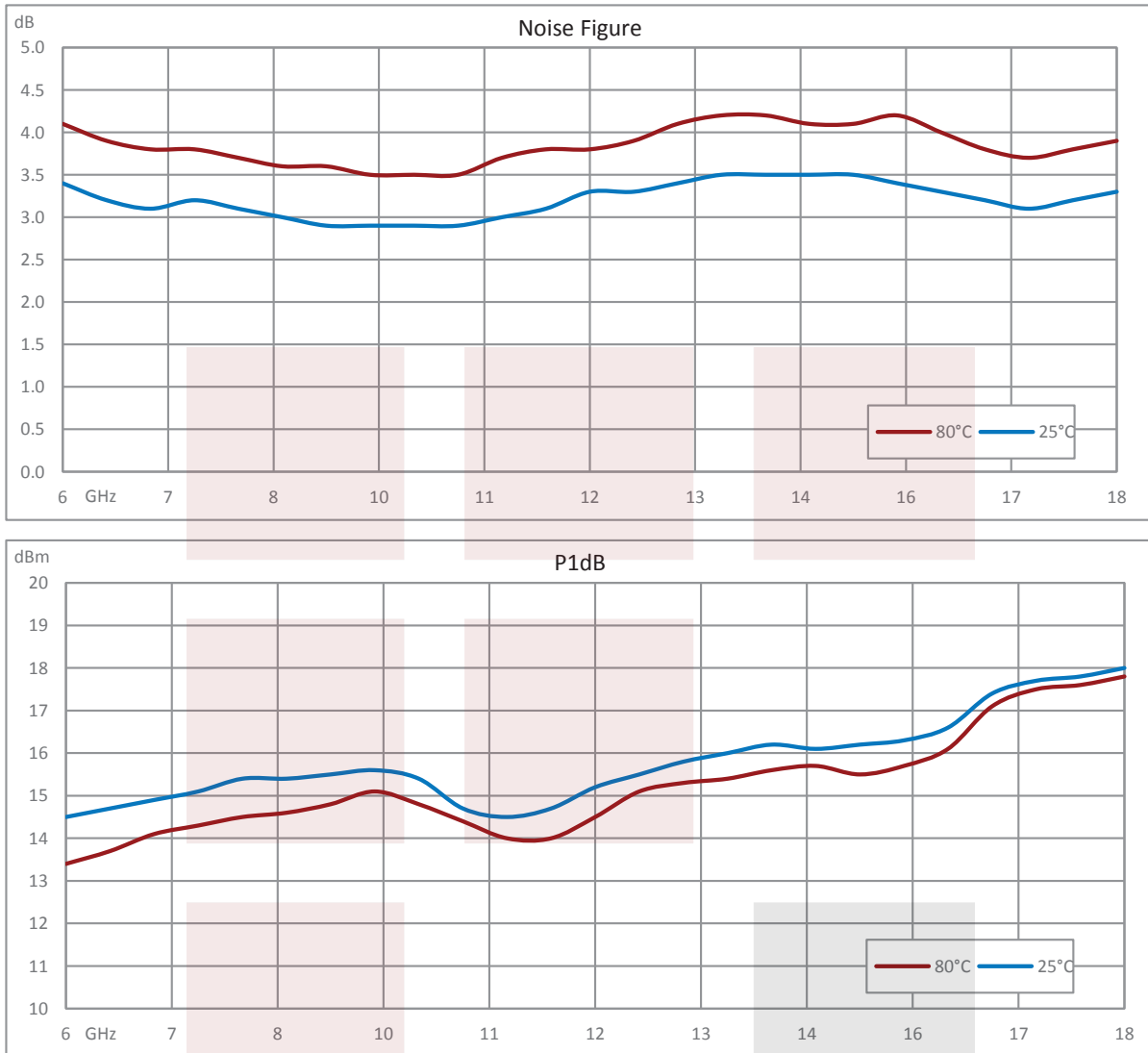
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



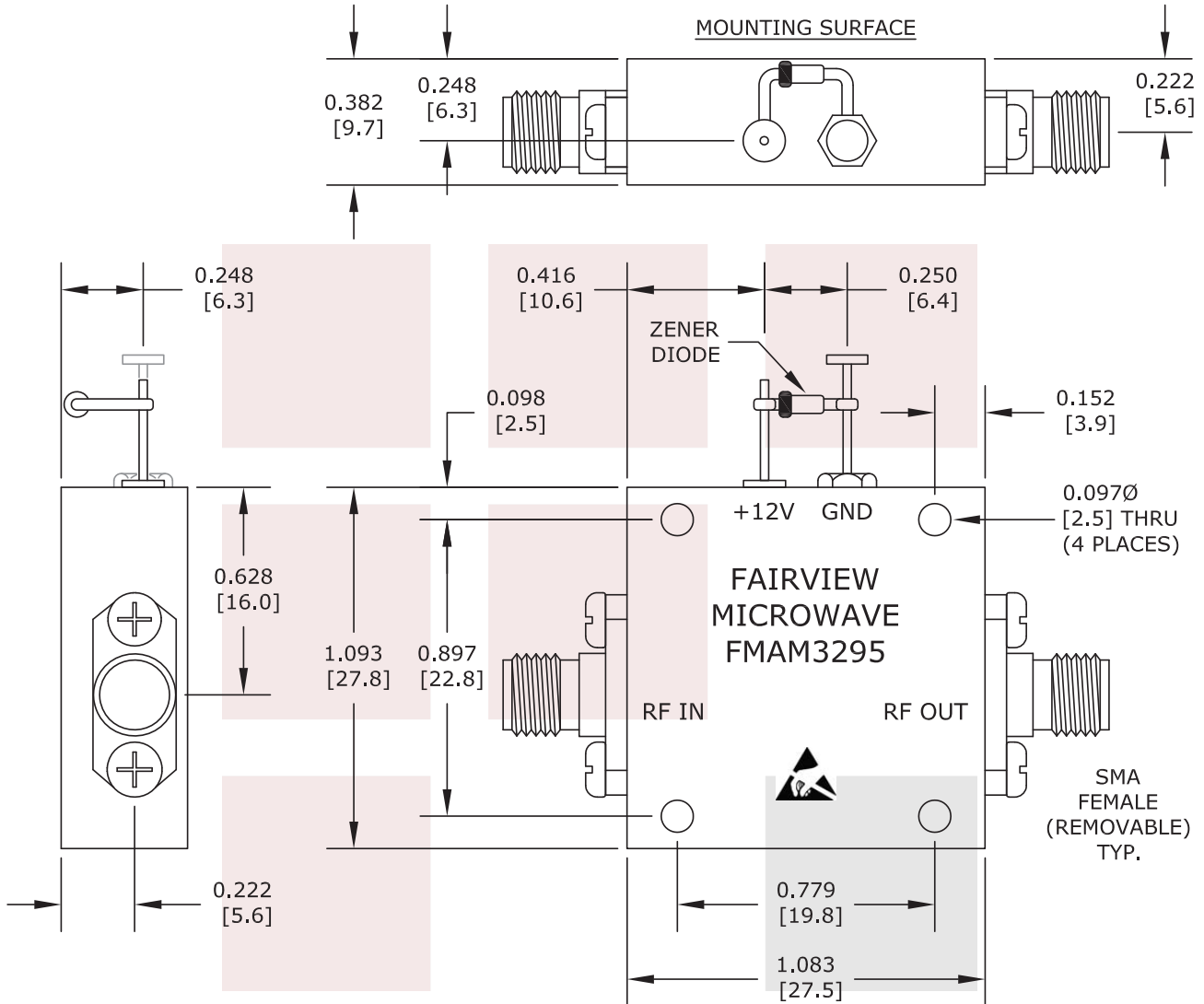


3 dB NF, 6 GHz to 18 GHz, Low Noise Broadband Amplifier with 13 dBm, 14 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [3 dB NF, 6 GHz to 18 GHz, Low Noise Broadband Amplifier with 13 dBm, 14 dB Gain and SMA FMAM3295](https://www.fairviewmicrowave.com/6-18-ghz-low-noise-broadband-amplifier-fmam3295)

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NOTE:
HEAT SINK REQUIRED FOR PROPER OPERATION,
UNIT IS COOLED BY CONDUCTING TO HEAT SINK.

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TITLE 3 dB NF, 6 GHz to 18 GHz, Low Noise Broadband Amplifier with 13 dBm, 14 dB Gain and SMA		DWG NO FMAM3295		CAGE CODE 3FKR5	
CAD FILE	032116	SHEET	SCALE	N/A	SIZE A 2233