



2.5 dB NF, 6 GHz to 18 GHz, Low Noise Broadband Amplifier with 10 dBm, 30 dB Gain and SMA

FMAM3294 is a broadband coaxial low noise amplifier, operating in the 6 to 18 GHz frequency range. The amplifier offers 10 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)

	Min		Тур	Max	Unit
	6			18	GHz
	30				dB
	+10				dBm
			2.5		dB
	11		12	13	Volts
			200		mA
Range (OTR)	-40			+80	°C
	Range (OTR)	6 30 +10	6 30 +10	6 30 +10 2.5 11 12 200	6 18 30 +10 2.5 11 12 13 200

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
 1.083 in [27.51 mm]

 Width
 1.093 in [27.76 mm]

 Height
 0.382 in [9.7 mm]

 Weight
 0.0075 lbs [3.4 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: 10 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°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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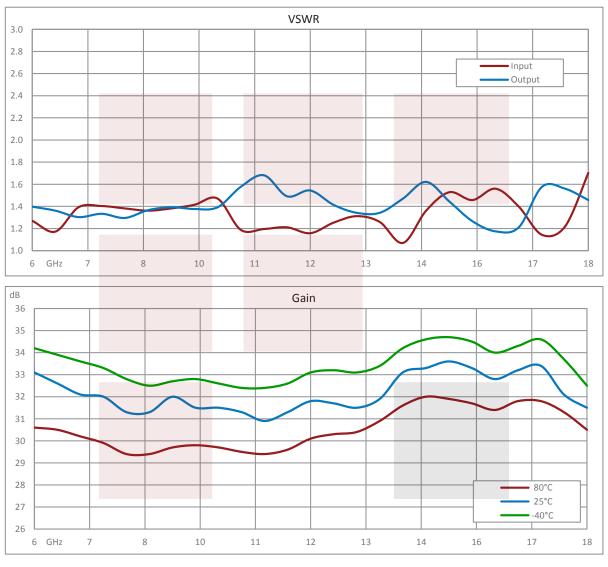


Compliance Certifications (see product page for current document)

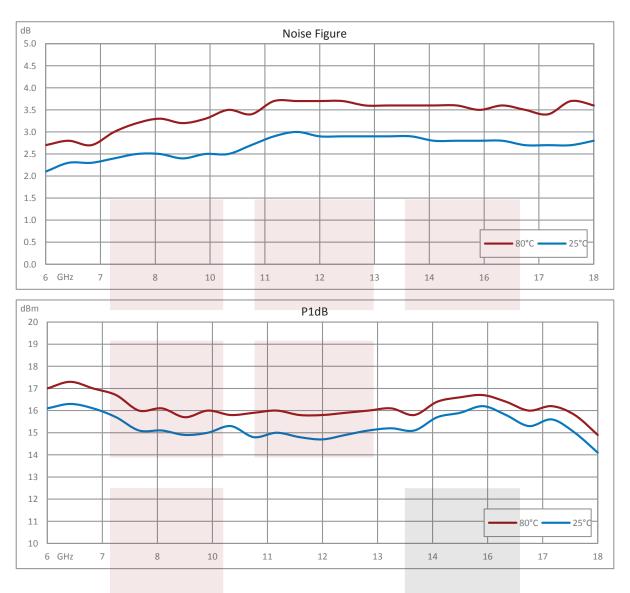
Plotted and Other Data

Notes:

Typical Performance Data







2.5 dB NF, 6 GHz to 18 GHz, Low Noise Broadband Amplifier with 10 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.

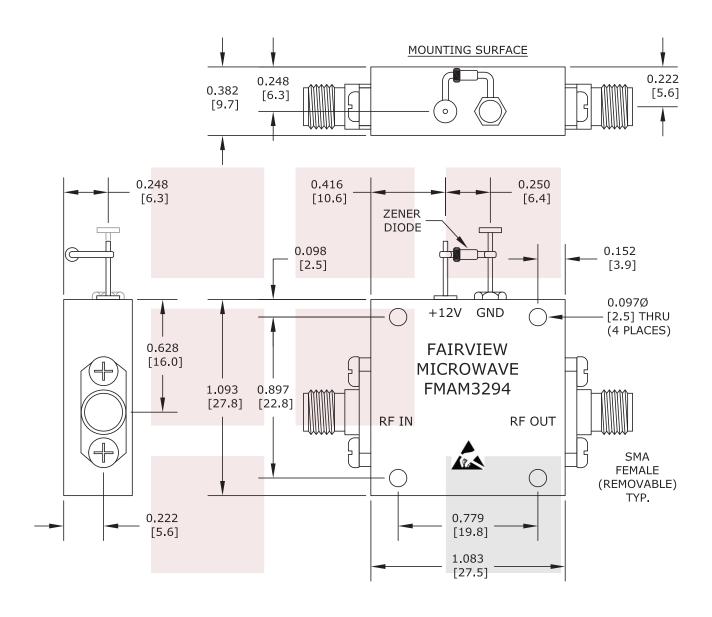
For additional information on this product, please click the following link: 2.5 dB NF, 6 GHz to 18 GHz, Low Noise Broadband Amplifier with 10 dBm, 30 dB Gain and SMA FMAM3294

URL: https://www.fairviewmicrowave.com/6-18-ghz-low-noise-broadband-amplifier-fmam3294-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.







NOTE:

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

FAIRVIEW MICROWAVE INC. 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].						
2.5 dB NF, 6 GHz to 18 GHz, Low Noise Broadband	DWG NO FMAM3294				CAGE CODE 3FKR5		
Amplifier with 10 dBm, 30 dB Gain and SMA	CAD FILE	032116	SHEET	SCAL	E N/A	SIZE A	2233