

**4 dB NF, 0.01 MHz to 3 GHz, Low Noise Broadband Amplifier with 12 dBm, 16 dB Gain, 26 dBm IP3 and SMA**

The FMAM3308 is a broadband coaxial power amplifier, operating in the 0.01 MHz to 3 GHz frequency range. Impressive broadband typical performance includes 4 dB noise figure, 16 dB small signal gain, +12 dBm P1dB, and an output 3rd order intercept point of +26 dBm. This exceptional technical performance is achieved through the use of hybrid MIC design and advanced InGaP GaAs HBT devices. The low noise amplifier requires a +15V DC power supply, and operates over a temperature range of -40°C to +85°C. The rugged and compact package supports SMA Female connectors and RFI and Ground pins. And for highly reliable operation, the model is guaranteed to meet MIL-STD-202 environmental test conditions for Humidity, Shock, Vibration, and Altitude.

**Electrical Specifications** (TA= 25°C, VDC1 = 15 Vdc)

Description	Min	Typ	Max	Unit
Frequency Range	0		3	GHz
Gain	11.5	16		dB
Gain Flatness		±1.5	±2	dB
P1dB	+10	+12		dBm
IP3	+24	+26		dBm
Reverse Isolation	-17	-20		dB
Noise Figure		4	5	dB
Input VSWR		1.2:1	1.5:1	
Output VSWR		1.5:1	1.8:1	
Operating DC Voltage 1	14	15	16	Volts
Operating DC Current		47	60	mA
Operating Temperature Range (OTR)	0		+50	°C

**Performance by Frequency**

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.01		3000	MHz
Gain				dB
Frequency = 1KHz	14.0	16.0		
Frequency = 1MHz	14.0	16.0		
Frequency = 100MHz	13.5	15.5		
Frequency = 1500MHz	12.5	14.5		
Frequency = 3000MHz	11.5	13.0		

**Mechanical Specifications**

Weight	0.086 lbs [39.01 g]
Input Connector	SMA Female
Output Connector	SMA Female

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	0 to +50 deg C
Storage Range	-40 to +100 deg C



**Features:**

- 0.01 MHz to 3 GHz Frequency Range
- P1dB: +12 dBm
- Small Signal Gain: 16 dB
- Gain Flatness: ±1.5 dB
- 50 Ohm Input and Output Matched
- Output IP3: +26 dBm
- Advanced InGaP GaAs HBT Design
- -40 to +85°C Operating Temperature
- +15V / 47mA DC Positive Supply
- SMA Female Connectors
- Designed to meet MIL-STD-202 Test Conditions

**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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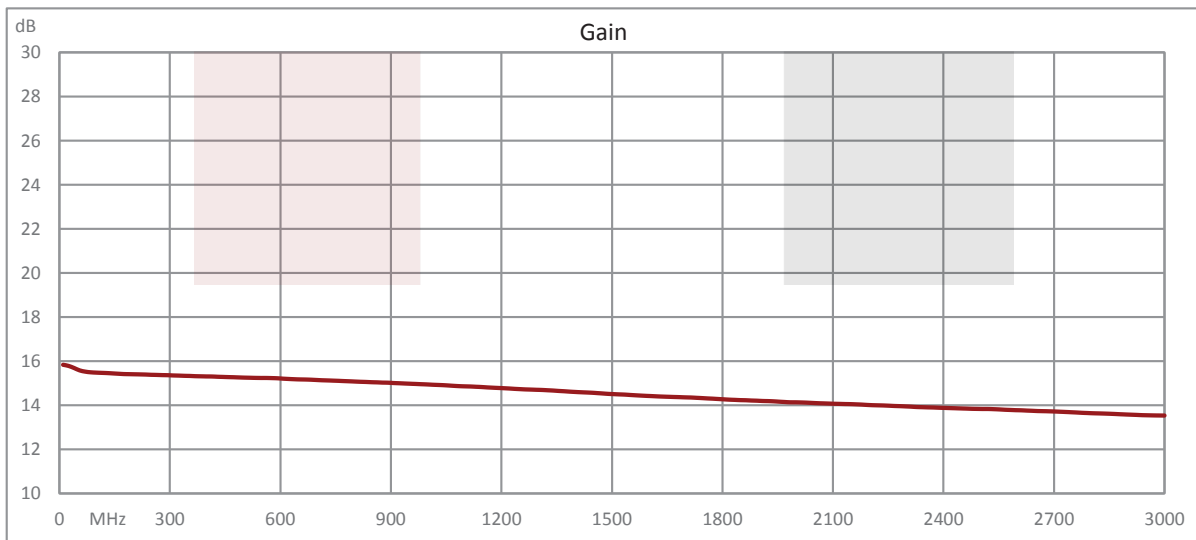
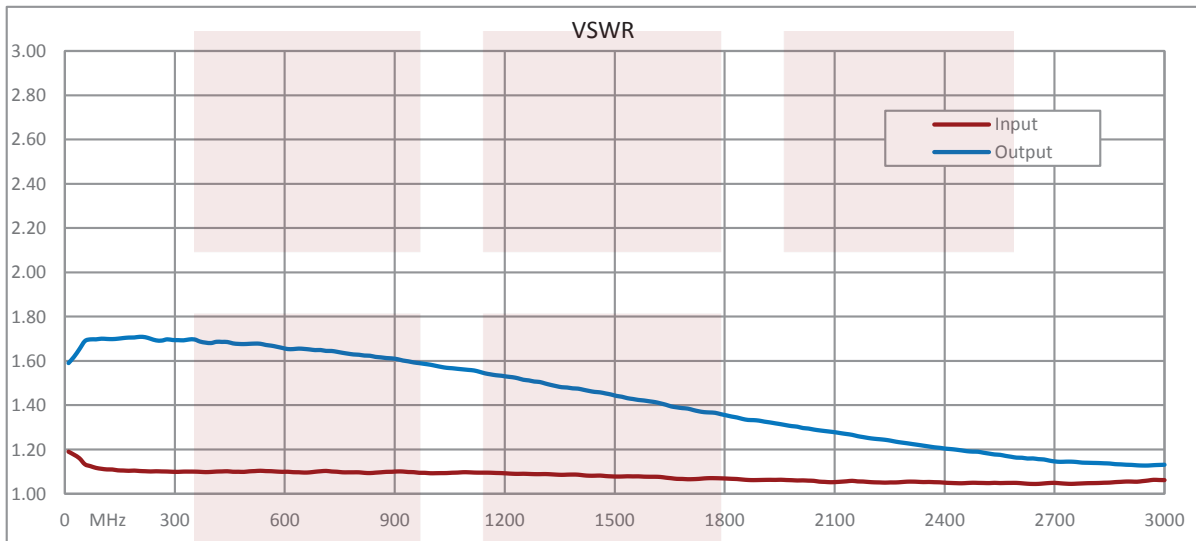
Humidity	MIL-STD-202F, Method 103B, Condition B
Shock	MIL-STD-202F, Method 213B, Condition B
Vibration	MIL-STD-202F, Method 204D, Condition B
Altitude	MIL-STD-202F, Method 105C, Condition B

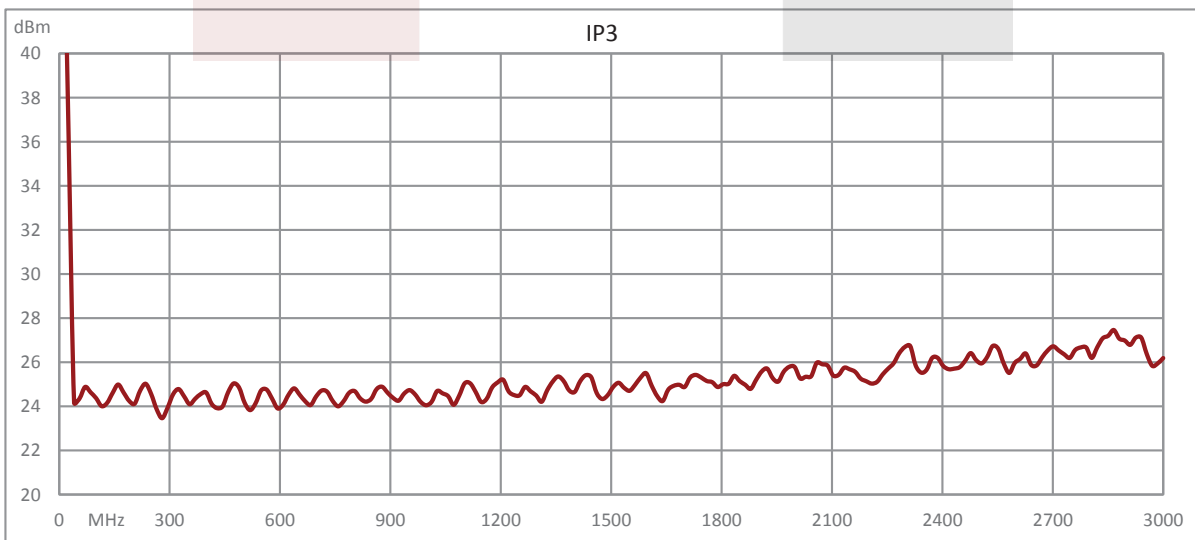
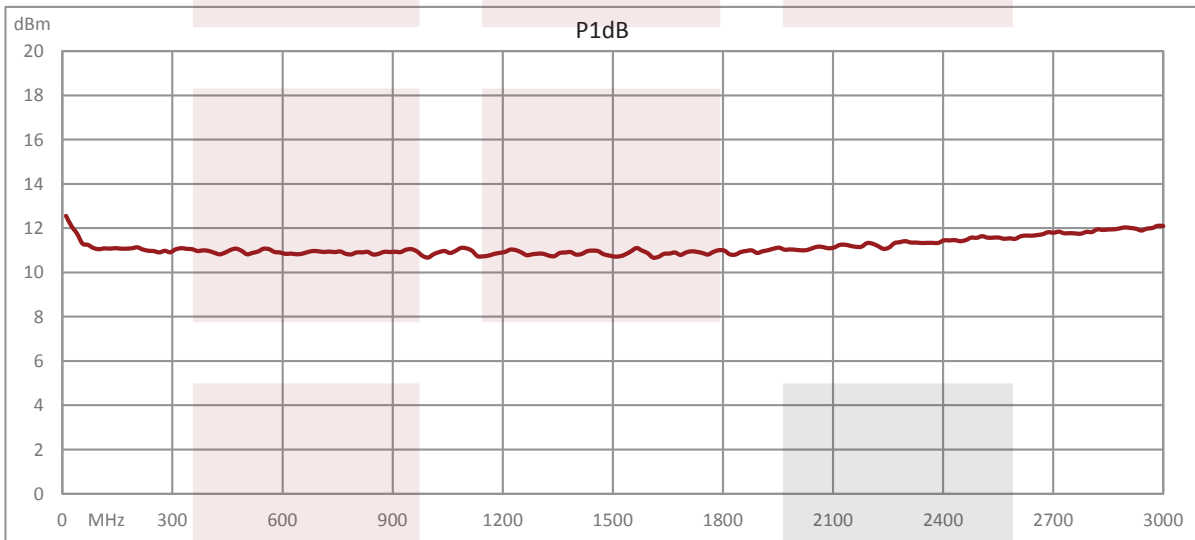
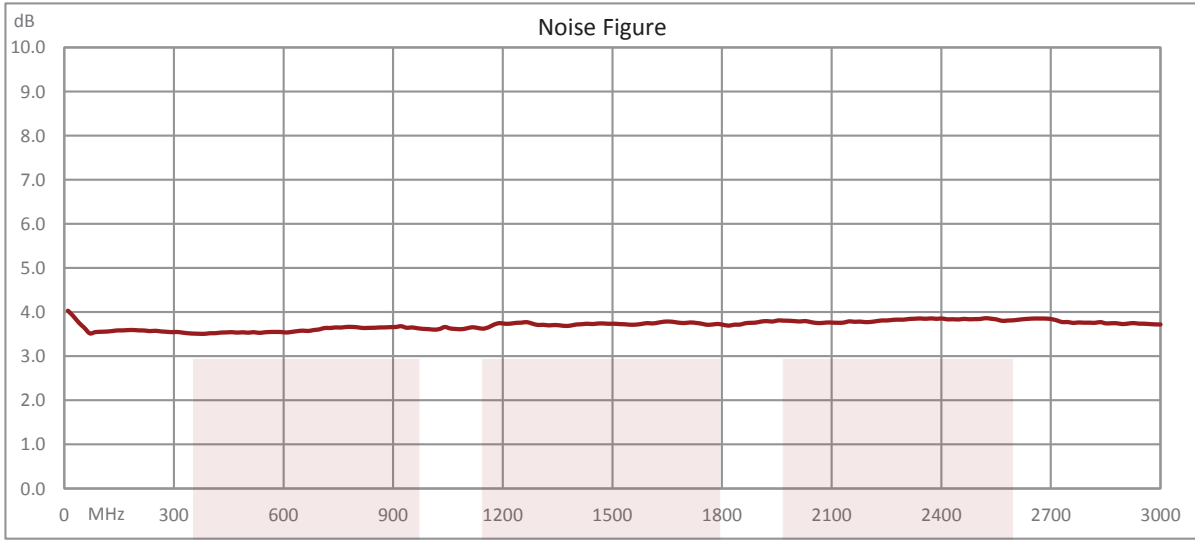
**Compliance Certifications** (see [product page](#) for current document)

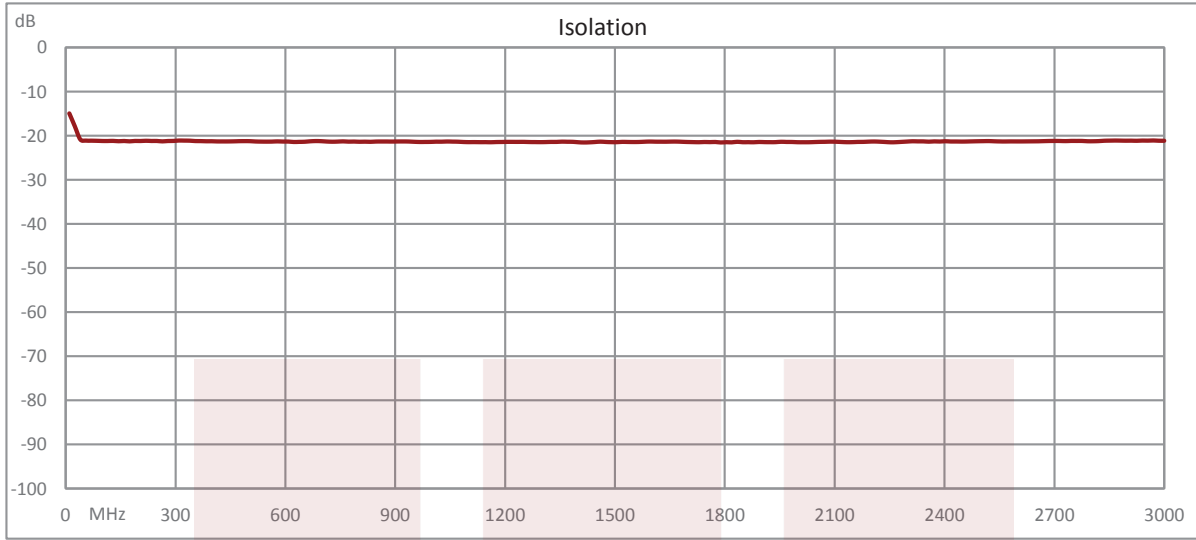
**Plotted and Other Data**

Notes:

**Typical Performance Data**





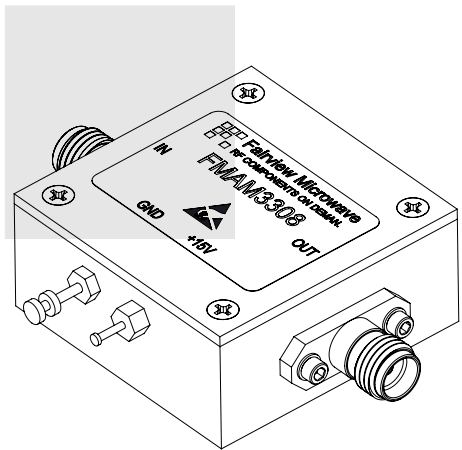
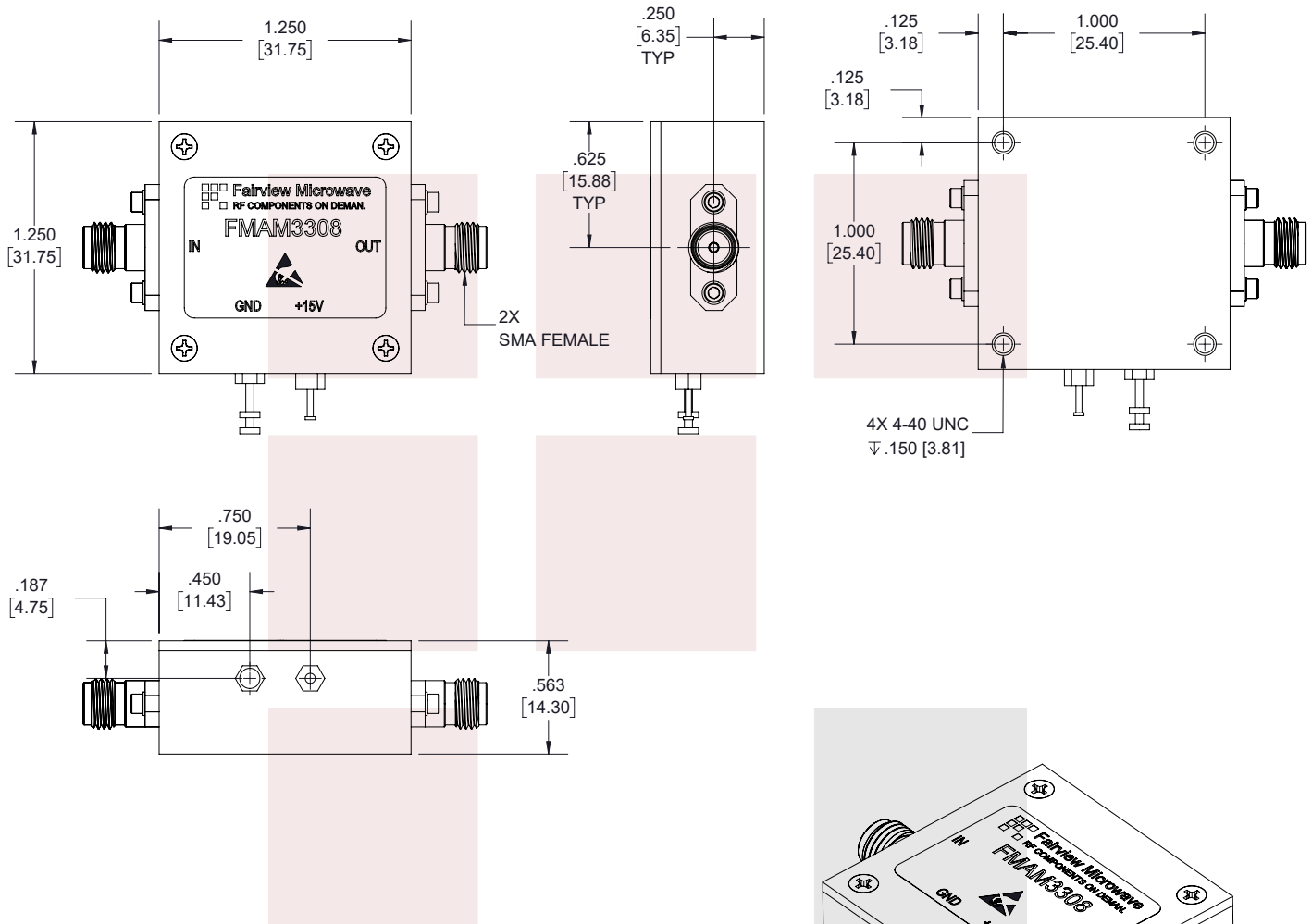


4 dB NF, 0.01 MHz to 3 GHz, Low Noise Broadband Amplifier with 12 dBm, 16 dB Gain, 26 dBm IP3 and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [4 dB NF, 0.01 MHz to 3 GHz, Low Noise Broadband Amplifier with 12 dBm, 16 dB Gain, 26 dBm IP3 and SMA FMAM3308](#)

URL: <https://www.fairviewmicrowave.com/0.01-mhz-3-ghz-low-noise-broadband-amplifier-fmam3308-p.aspx>

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STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

\*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].					
DWG NO		FMAM3308		CAGE CODE	
				3FKR5	
CAD FILE	04/23/18	SHEET	1 OF 1	SCALE	N/A
				SIZE	A
					7361