

3.5 dB NF, 2 GHz to 18 GHz, Low Noise Broadband Amplifier with 10 dBm, 20 dB Gain and SMA

The FMAM3301 is a broadband coaxial power amplifier, operating in the 2 to 18 GHz frequency range. This amplifier utilizes high power devices that provide excellent linearity and high gain. The amplifier offers 10 dBm of P1dB minimum and 20 dB small signal gain, with the gain flatness of ± 2.5 dB max. This power amplifier requires a +12 Volt DC supply, is unconditionally stable, operates over the temperature range of 0°C to 50°C.

Electrical Specifications (TA= 25°C, VDC1 = 13.5 Vdc)

Description	Min	Typ	Max	Unit
Frequency Range	2		18	GHz
Gain	20			dB
Gain Flatness			± 2.5	dB
P1dB	+10			dBm
Noise Figure			3.5	dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage 1		13.5		Volts
Operating DC Current		100		mA
Operating Temperature Range (OTR)	0		+50	°C

Mechanical Specifications

Weight	0.048 lbs [21.77 g]
Connector Option	Field Replaceable
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature	
Operating Range	0 to +50 deg C
Storage Range	-40 to +100 deg C
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:



Features:

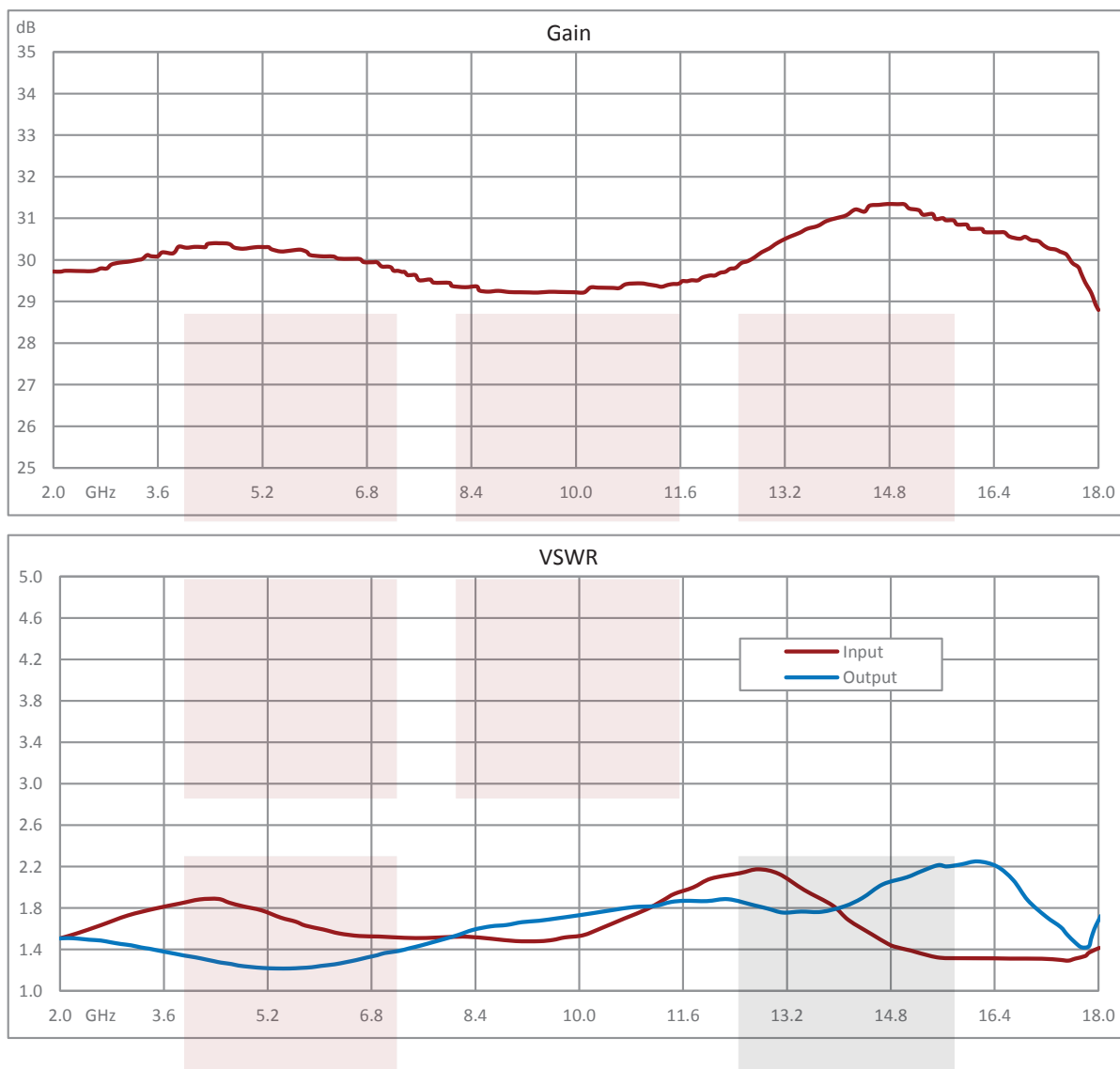
- 2 to 18 GHz Frequency Range
- P1dB: 10 dBm min.
- Small Signal Gain: 20 dB min.
- Gain Flatness: ± 2.5 dB max.
- 50 Ohm Input and Output Matched
- 0 to 50°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Field Replaceable SMA Female

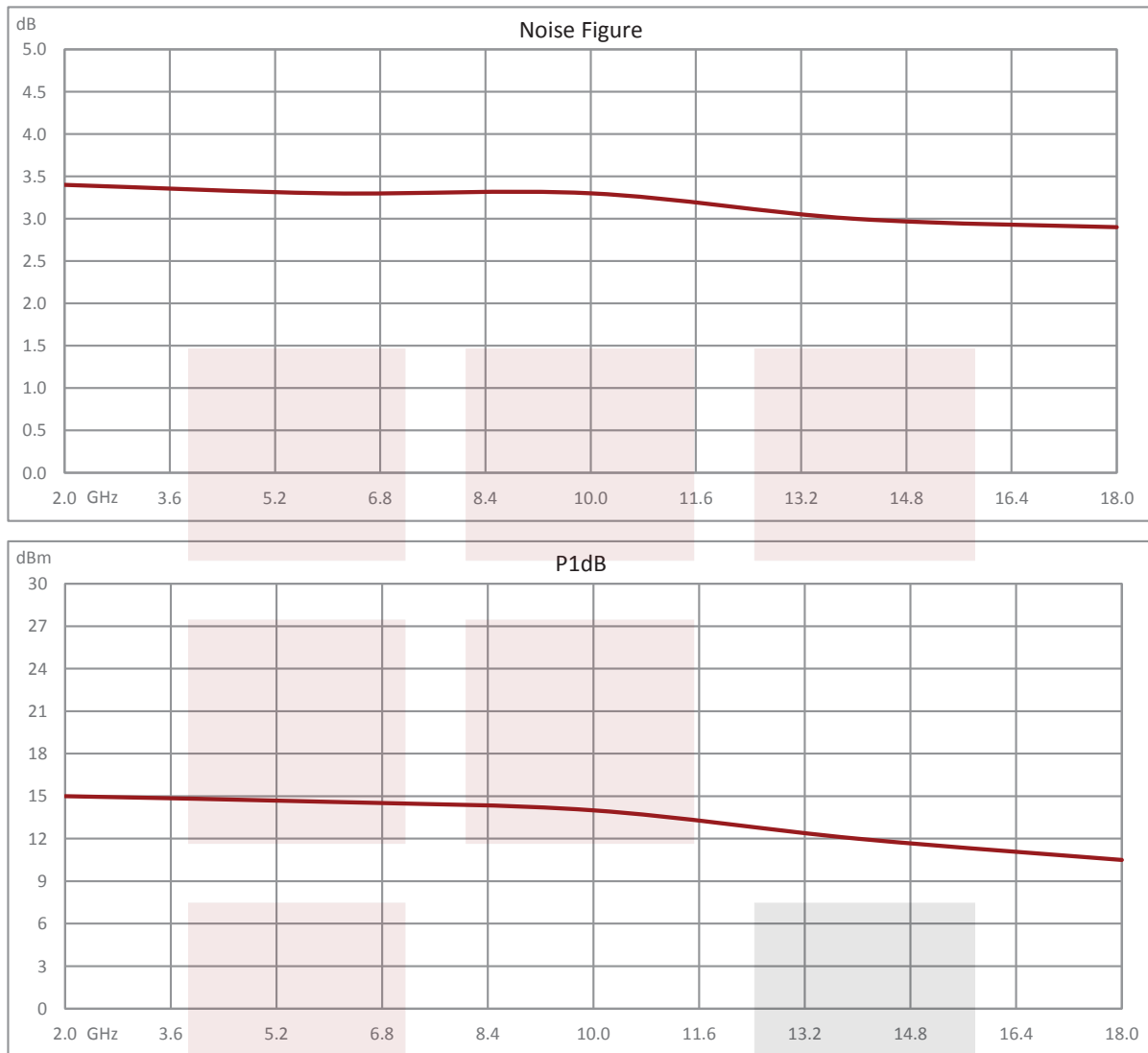
Applications:

- 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



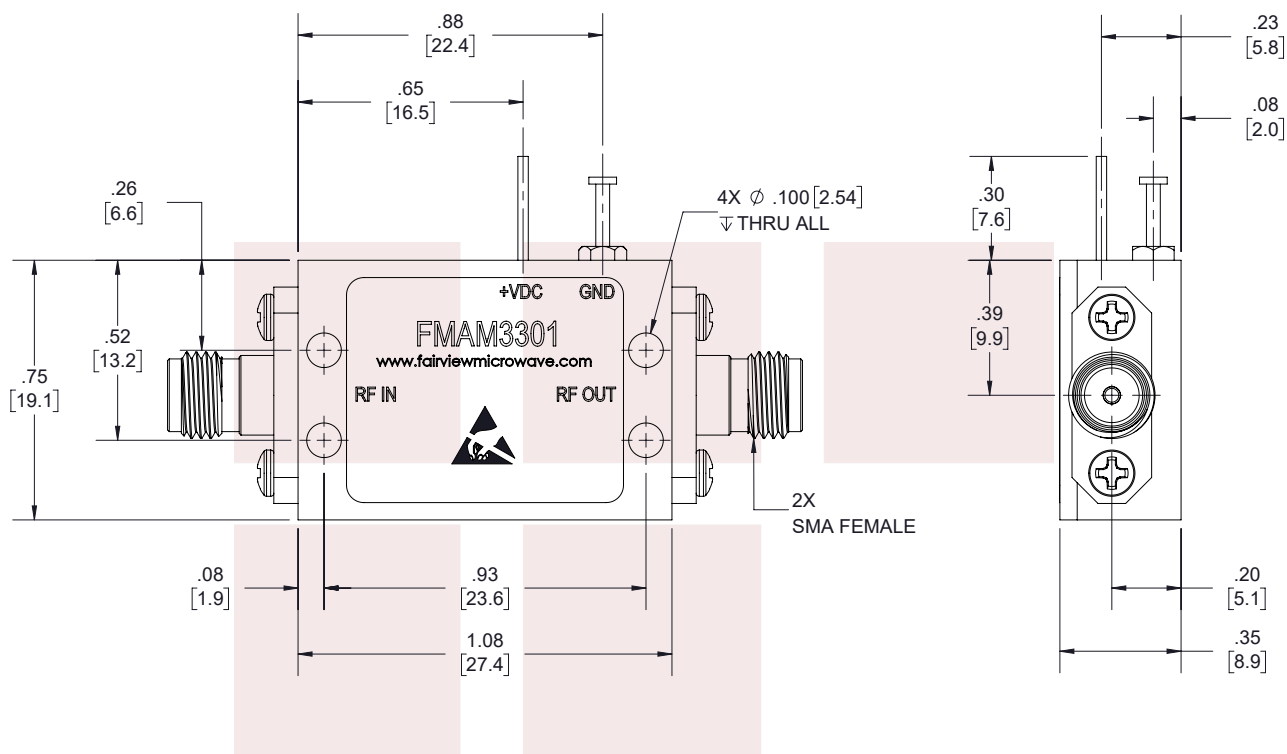


3.5 dB NF, 2 GHz to 18 GHz, Low Noise Broadband Amplifier with 10 dBm, 20 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [3.5 dB NF, 2 GHz to 18 GHz, Low Noise Broadband Amplifier with 10 dBm, 20 dB Gain and SMA FMAM3301](https://www.fairviewmicrowave.com/2-18-ghz-low-noise-broadband-amplifier-fmam3301-p.aspx)

URL: <https://www.fairviewmicrowave.com/2-18-ghz-low-noise-broadband-amplifier-fmam3301-p.aspx>

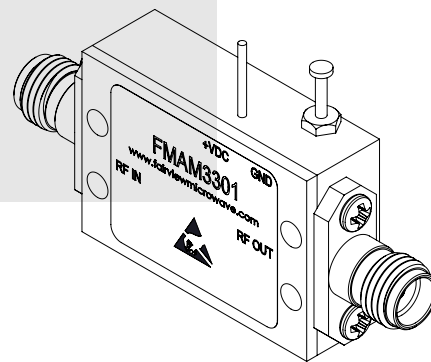
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STANDARD TOLERANCES

.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES



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TITLE

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Amplifier with 10 dBm, 20 dB Gain and SMA

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

FMAM3301

CAGE CODE

3FKR5

CAD FILE

120117

SHEET

1 OF 1

SCALE

N/A

SIZE

A 7361