

4 dB NF, 26.5 GHz to 40 GHz, Low Noise Broadband Amplifier with 10 dBm, 50 dB Gain and 2.92mm

The FMAM3307 is a broadband coaxial power amplifier, operating in the 26.5 to 40 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 50 dB small signal gain, with the gain flatness of ± 3.5 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 = 12 Vdc)

Description	Min	Typ	Max	Unit
Frequency Range	26.5		40	GHz
Gain	50			dB
Gain Flatness			± 3.5	dB
P1dB	+10			dBm
Noise Figure			4	dB
Input VSWR			2.5:1	
Output VSWR			2.5:1	
Operating DC Voltage 1		12		Volts
Operating DC Current		375		mA
Operating Temperature Range (OTR)	0		+50	°C

Mechanical Specifications

Weight	0.035 lbs [15.88 g]
Connector Option	Field Replaceable
Input Connector	2.92mm Female
Output Connector	2.92mm 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:

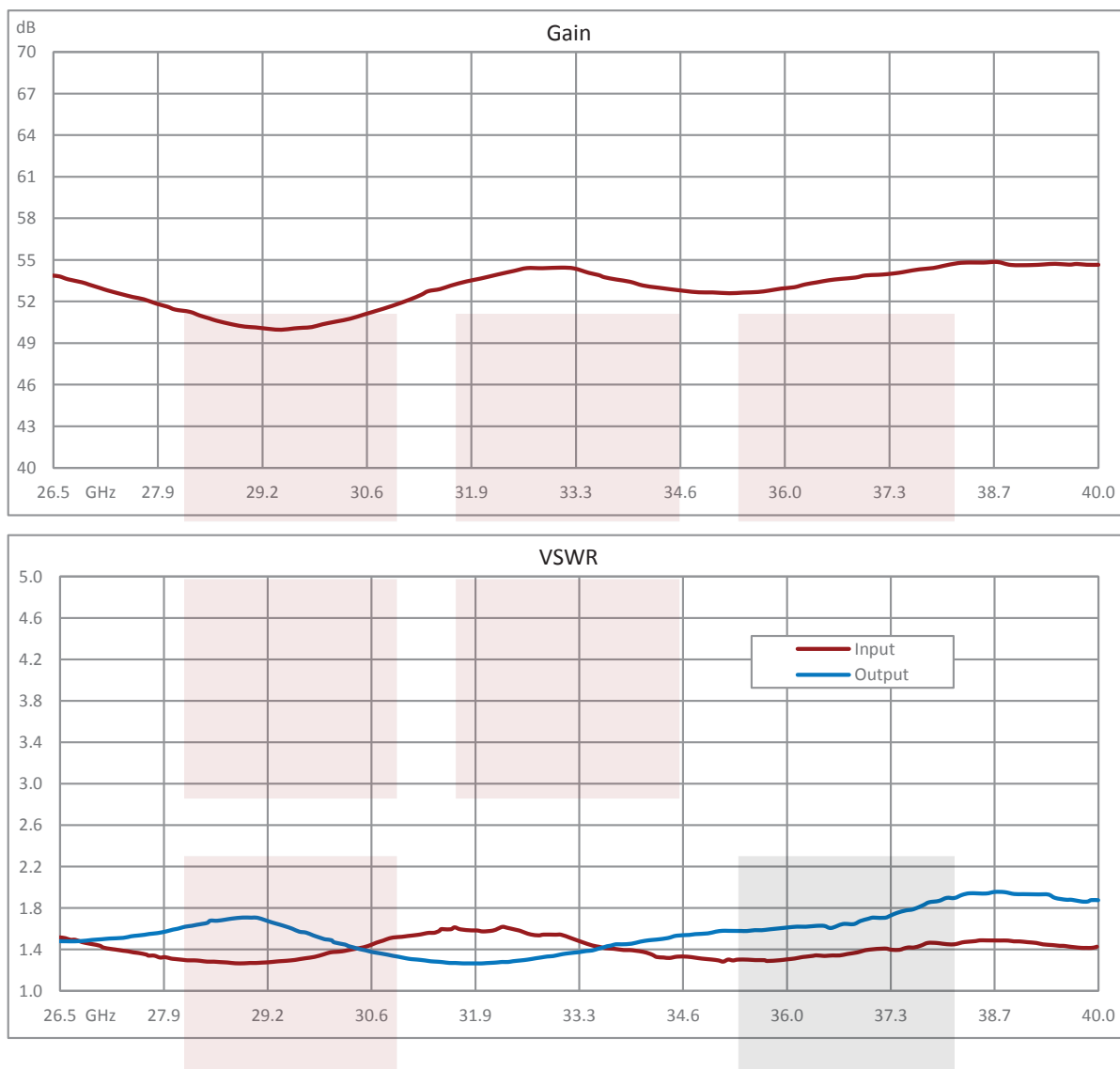
- 26.5 to 40 GHz Frequency Range
- P1dB: 10 dBm min.
- Small Signal Gain: 50 dB min.
- Gain Flatness: ± 3.5 dB max.
- 50 Ohm Input and Output Matched
- 0 to 50°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Field Replaceable 2.92mm Female

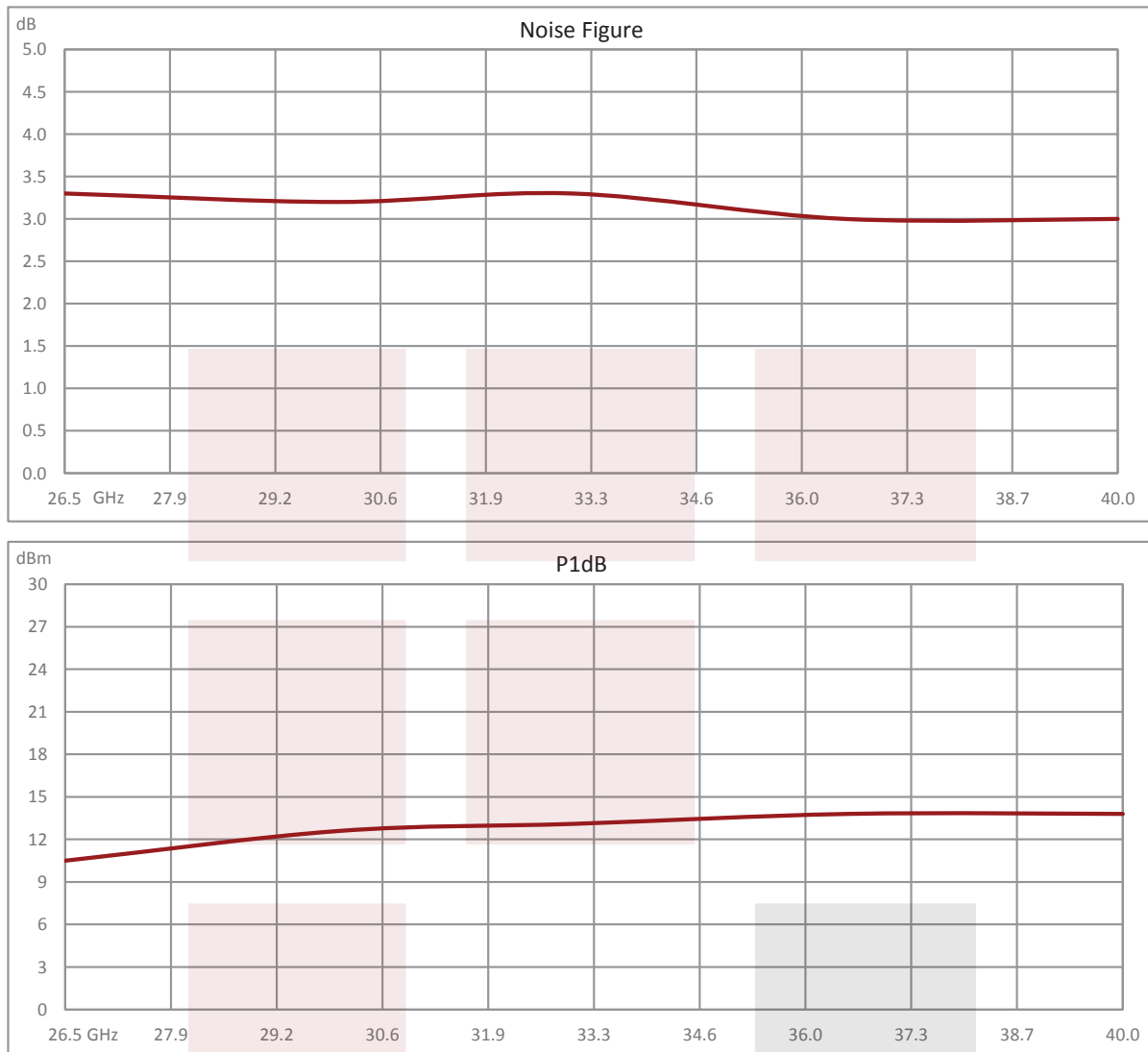
Applications:

- 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



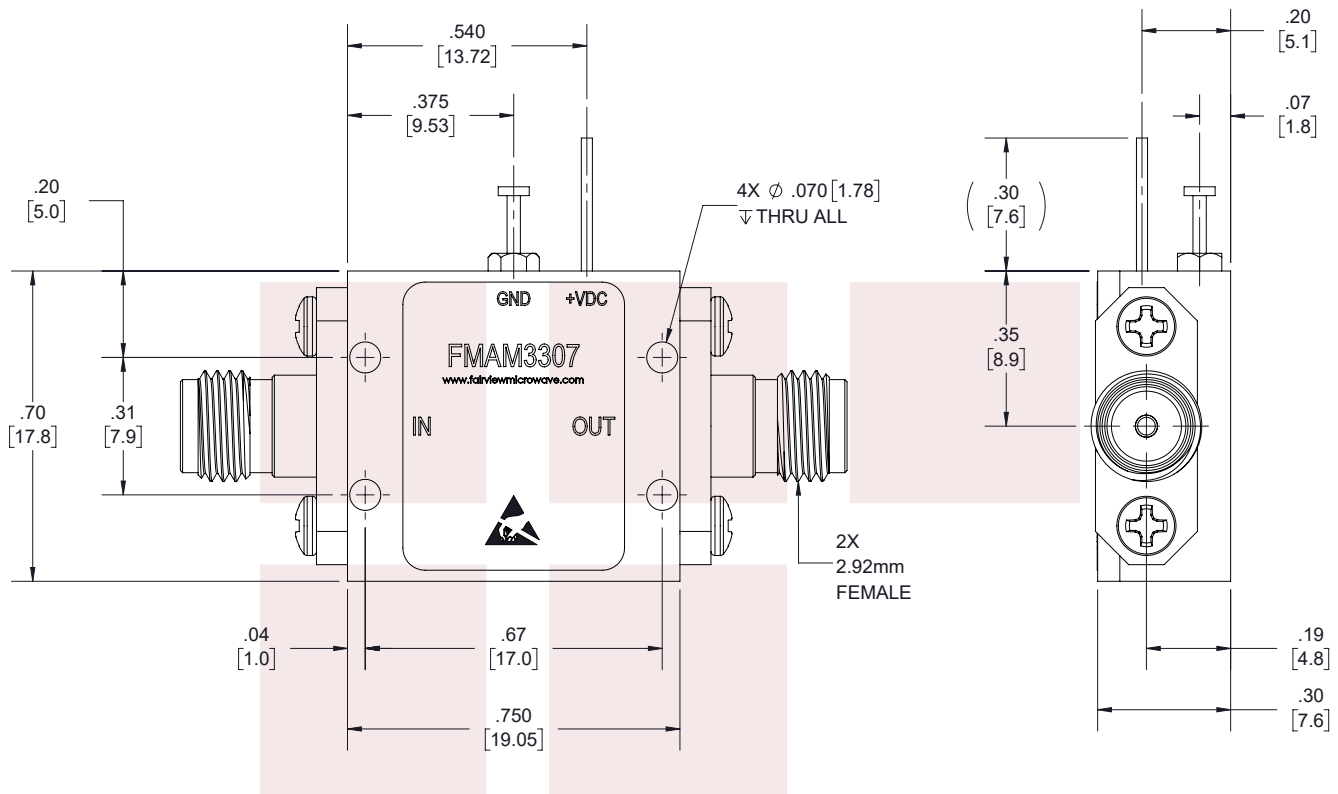


4 dB NF, 26.5 GHz to 40 GHz, Low Noise Broadband Amplifier with 10 dBm, 50 dB Gain and 2.92mm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [4 dB NF, 26.5 GHz to 40 GHz, Low Noise Broadband Amplifier with 10 dBm, 50 dB Gain and 2.92mm FMAM3307](https://www.fairviewmicrowave.com/26.5-40-ghz-low-noise-broadband-amplifier-fmam3307-p.aspx)

URL: <https://www.fairviewmicrowave.com/26.5-40-ghz-low-noise-broadband-amplifier-fmam3307-p.aspx>

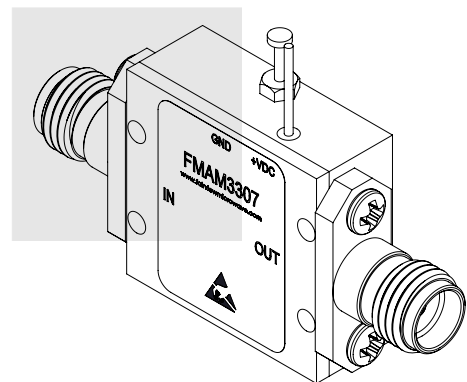
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STANDARD TOLERANCES

.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].

TITLE

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Amplifier with 10 dBm, 50 dB Gain and 2.92mm

DWG NO

FMAM3307

CAGE CODE

3FKR5

CAD FILE

120117

SHEET

1 OF 1

SCALE

N/A

SIZE

A

7361