

5.5 dB NF, 18 GHz to 40 GHz, Low Noise Broadband Amplifier with 10 dBm, 18 dB Gain and 2.4mm

FMAM3268 is a broadband coaxial low noise amplifier, operating in the 18 to 40 GHz frequency range. The amplifier offers +10 dBm of P1dB minimum and 18-21 dB small signal gain, and ± 2.0 dB maximum gain flatness. 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. The Input/Output Connectors are 2.4mm Female.

Electrical Specifications (TA = $+25^{\circ}\text{C}$, DC Voltage = 15Volts, DC Current = 250mA)

Description	Min	Typ	Max	Unit
Frequency Range	18		40	GHz
Gain	18		21	dB
Gain Flatness			± 2	dB
P1dB	+10			dBm
Noise Figure			5.5	dB
Input VSWR		2.5:1		
Output VSWR		2.5:1		
Operating DC Voltage	12		15	Volts
Operating DC Current			250	mA
Operating Temperature Range (OTR)	-20		+85	$^{\circ}\text{C}$

Mechanical Specifications

Size	
Length	1 in [25.4 mm]
Width	1.75 in [44.45 mm]
Height	0.41 in [10.41 mm]
Input Connector	2.4mm
Output Connector	2.4mm

Environmental Specifications

Temperature	
Operating Range	-20 to +85 deg C
Storage Range	-55 to +85 deg C
Humidity	MIL-STD-810F, Up to 95%
Shock	MIL-STD-202G, Method 204 COND. C
Altitude	30,000 Feet



Features:

- 18 to 40 GHz Frequency Range
- P1dB: 10 dBm min
- Small Signal Gain: 18 dB min
- Gain Flatness: ± 2.0 dB max
- P1dB: 10 dBm min
- Noise Figure: 5.5 dB max
- 50 Ohm Input and Output Matched
- -20 to $+85^{\circ}\text{C}$ Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator
- Input/Output 2.4mm Female Connectors

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

Fairview Microwave
1130 Junction Dr. #100
Allen, TX 75013
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

Plotted and Other Data

Notes:

- Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.
- Heat Sink Required for Proper Operation, Unit is cooled by conduction to heat sink.

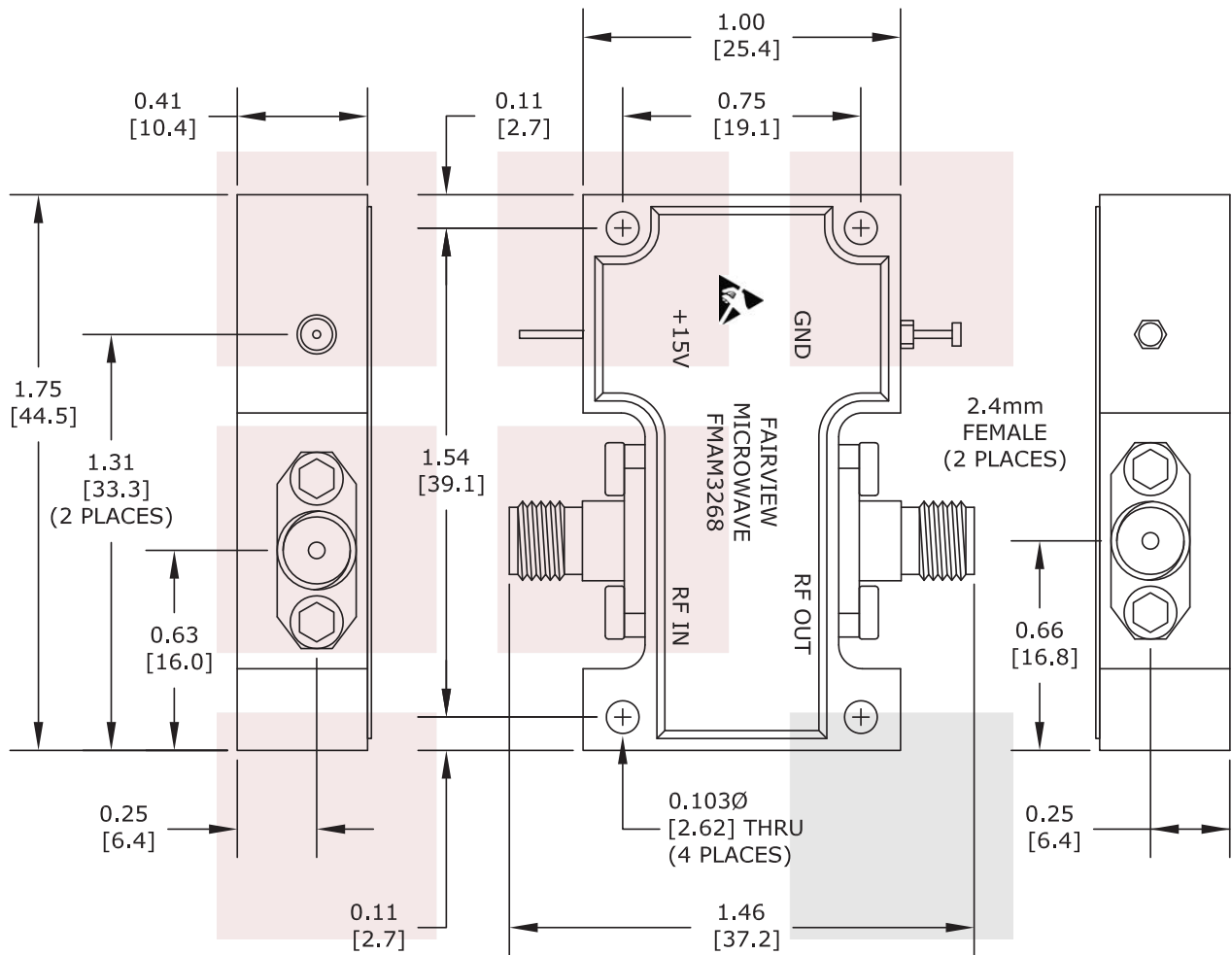


5.5 dB NF, 18 GHz to 40 GHz, Low Noise Broadband Amplifier with 10 dBm, 18 dB Gain and 2.4mm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [5.5 dB NF, 18 GHz to 40 GHz, Low Noise Broadband Amplifier with 10 dBm, 18 dB Gain and 2.4mm FMAM3268](#)

URL: <http://www.fairviewmicrowave.com/18-40-ghz-low-noise-broadband-amplifier-fmam3268-p.aspx>

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

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TITLE 5.5 dB NF, 18 GHz to 40 GHz, Low Noise Broadband Amplifier with 10 dBm, 18 dB Gain and 2.4mm		DWG NO FMAM3268		CAGE CODE 3FKR5	
CAD FILE	022315	SHEET	SCALE	N/A	SIZE A 2233