



3 dB NF, 10 MHz to 6 GHz, Low Noise Broadband Amplifier with 14.5 dBm, 34 dB Gain, 25.5 dBm IP3 and SMA

FMAM3269 is a broadband coaxial low noise amplifier, operating in the 10 to 6000 MHz frequency range. The amplifier offers 34 dB small signal gain min, with the gain flatness of ± 1.0 dB typical and a typical noise figure of 3.0 dB. This low noise amplifier requires only a single positive DC supply of ± 12 VDC typical, is unconditionally stable, operates over the temperature range of ± 40 °C to 85°C, and is Hermetically sealed.

Electrical Specifications (TA= 25°C, VDC1 = 12 Vdc)

Description		Min		Тур	Max	Unit
Frequency Range		0.01			6	GHz
Gain		30		34	37	dB
Gain Flatness				±1	±1.25	dB
Gain Variation over OTR ³	k			±1		dB
P1dB		+12.5	-	+14.5		dBm
IP3		+22	-	+25.5		dBm
Reverse Isolation		40		45		dB
Spurious					-60	dBc
Noise Figure (50 MHz to 6 GHz)				3	4	dB
Input VSWR				1.5:1	2:1	
Output VSWR				1.5:1	2:1	
Operating DC Voltage 1		9.5		12	15	Volts
Operating DC Current		100		130	150	mA
Operating Temperature F	Range (OTR)	-40			+85	°C

*OTR= Base Plate Operating Temperature Range

Absolute Maximum Rating

Parameter	Rating	Units	
Source Voltage	+15	Volts	
RF input Power	+10	dBm	
DC Voltage at RF I/O	±25	Volts	
Operating Temperature	-40 to +85	°C	
Storage Temperature	-55 to +125	°C	



ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.



Features:

- 10 to 6000 MHz
 Frequency Range
- Small Signal Gain: 34 dB min
- Gain Flatness: ±1.0 dB typ
- Noise Figure: 3.0 dB typ
- 50 Ohm Input and Output Matched
- -40 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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Mechanical Specifications

Size

 Length
 1.7 in [43.18 mm]

 Width
 0.95 in [24.13 mm]

 Height
 0.375 in [9.53 mm]

 Weight
 0.0621 lbs [28.17 g]

Input Connector SMA Female Output Connector SMA Female

Environmental Specifications

Temperature

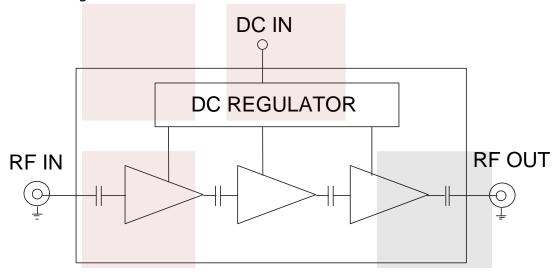
Operating Range -40 to +85 deg C Storage Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

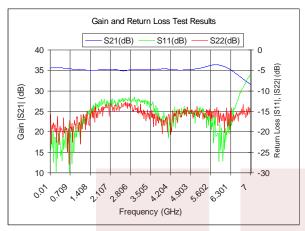
Functional Block Diagram

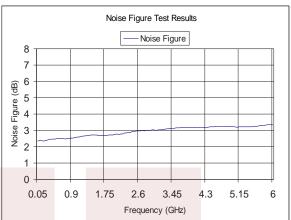




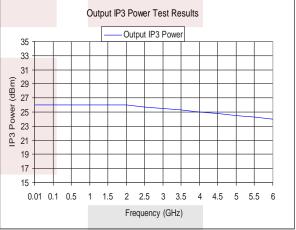


Typical Performance Data









3 dB NF, 10 MHz to 6 GHz, Low Noise Broadband Amplifier with 14.5 dBm, 34 dB Gain, 25.5 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.

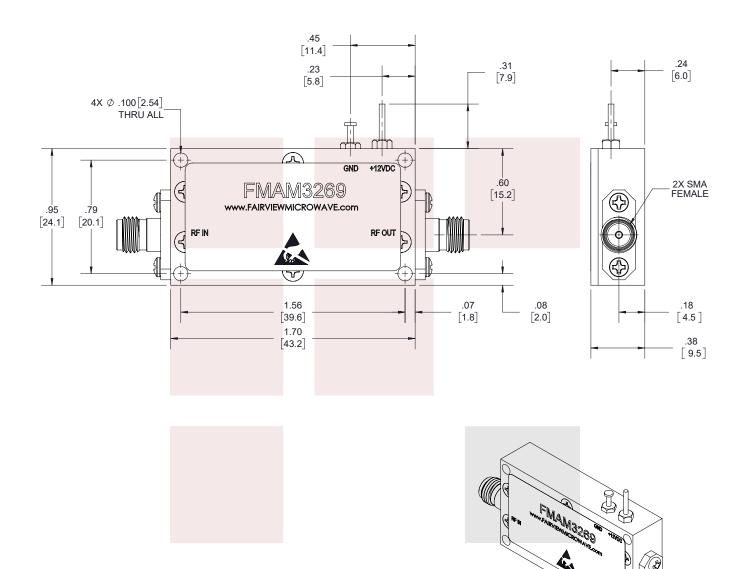
For additional information on this product, please click the following link: 3 dB NF, 10 MHz to 6 GHz, Low Noise Broadband Amplifier with 14.5 dBm, 34 dB Gain, 25.5 dBm IP3 and SMA FMAM3269

URL: https://www.fairviewmicrowave.com/10-mhz-6-ghz-low-noise-broadband-amplifier-fmam3269-p.aspx

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STANDARD TOLERANCES .X ±0.2

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

Fairview Microwave	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].						
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	CAD FILE 04/04/18	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361	