

FMAM3260 DATA SHEET

2 dB NF, 18 GHz to 26.5 GHz, Low Noise Broadband Amplifier with 13 dBm, 40 dB Gain, 22 dBm IP3 and 2.92mm

The FMAM3260 is a Broadband High Gain GaAs PHEMT MMIC-based coaxial Low Noise Amplifier, operating in the 18 to 26.5 GHz frequency range. The amplifier offers 2 dB Noise Figure, 13 dBm of P1dB and 40 dB small signal gain, with gain flatness of ±1.0 dB, along with 22 dBm IP3 performance. This low noise amplifier requires only a single positive DC supply, is unconditionally stable, operates over the temperature range of -40°C to 85°C, and is characterized by light weight (25 g) and small size (1.5"x1.0"x0.4").

Electrical Specifications (TA = +25°C, DC Voltage = 12Volts, DC Current = 180mA)

Description	Min	,	Тур	Max	Unit
Frequency Range	18			26.5	GHz
Gain	38		40	43	dB
Gain Flatness			±1	±1.5	dB
Gain Variance at OTR*			±1		dB
P1dB	+12		+13		dBm
IP3	+20		+22		dBm
Reverse Isolation	55		60		dB
Spurious			-60		dBc
Noise Figure			2	2.5	dB
Input VSWR			1.5:1	1.8:1	
Output VSWR			1.5:1	1.8:1	
Operating DC Voltage Operating DC Current	10 150		12 180	15 220	Volts mA
Operating Temperature Ra	ange (OTR) -40			+85	°C

^{*}OTR= Base Plate Operating Temperature Range

Absolute Maximum Rating

Parameter	Rating	Units	
Source Voltage	+18	Volts	
RF input Power	-5	dBm	
Operating Temperature (base-plate)	-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.

Mechanical Specifications

Size Width

Lenath 1.5 in [38.1 mm] 1 in [25.4 mm] Height 0.4 in [10.16 mm]

Input Connector 2.92mm **Output Connector** 2.92mm



Features:

- 18 to 26.5 GHz Frequency Range
- · Noise Figure: 2 dB typ
- Small Signal Gain: 40 dB typ
- Gain Flatness: ±1.0 dB typ
- · Gain Variation Over the Temperature Range: ±1.0 dB typ
- P1dB: +13 dBm typ
- IP3: +22 dBm typ
- 50 Ohm Input and Output Matched
- -40 to +85°C Operating **Temperature**
- · Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator
- Small Size & Light Weight

Applications:

- Laboratory Applications
- R&D Labs
- Electronic Warfare
- Telecom Infrastructure
- 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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Environmental Specifications

Temperature

Operating Range -40 to +85 deg C Storage Range -45 to +125 deg C

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

RoHS Compliant Yes

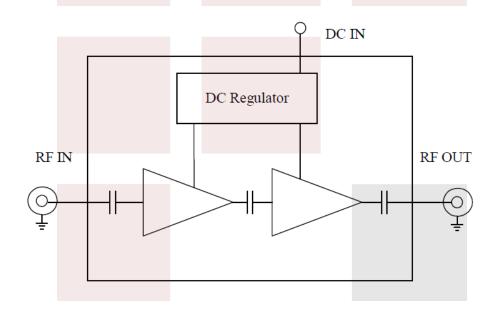
Plotted and Other Data

Notes:

- · Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.



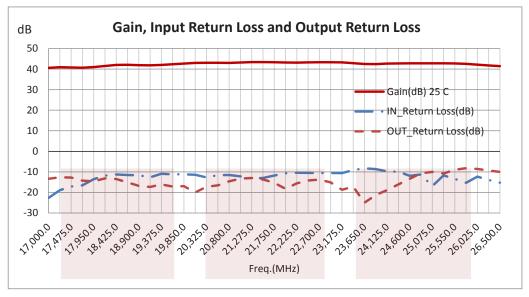
Functional Block Diagram

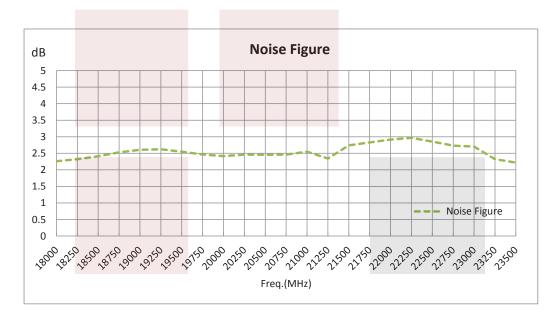






Typical Performance Data









2 dB NF, 18 GHz to 26.5 GHz, Low Noise Broadband Amplifier with 13 dBm, 40 dB Gain, 22 dBm IP3 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.

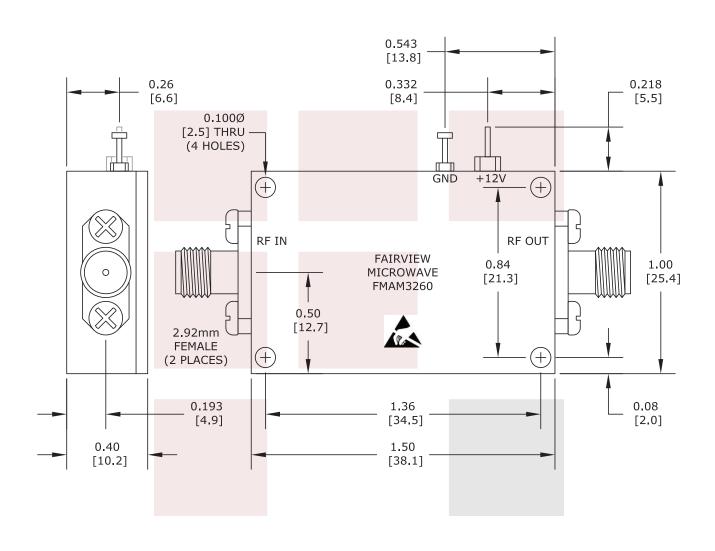
For additional information on this product, please click the following link: 2 dB NF, 18 GHz to 26.5 GHz, Low Noise Broadband Amplifier with 13 dBm, 40 dB Gain, 22 dBm IP3 and 2.92mm FMAM3260

URL: http://www.fairviewmicrowave.com/18-26.5-ghz-low-noise-broadband-amplifier-fmam3260-p.aspx









NOTE:

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

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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].						
2 dB NF, 18 GHz to 26.5 GHz, Low Noise Broadband	DWG NO FMAM3260			CAGE CODE 3FKR5			
Amplifier with 13 dBm, 40 dB Gain, 22 dBm IP3 and 2.92mm	CAD FILE 051415	SHEET	SCALE	N/A	SIZE A	2233	