

FMAM8004 DATA SHEET

17 dB Gain Block Amplifier Operating From 500 MHz to 2 GHz with 15 dBm P1dB and SMA

The FMAM8004 is wideband general purpose RF coaxial gain block amplifier operating in the 0.5 GHz to 2 GHz frequency range. The amplifier offers 15 dBm min of P1dB, 17 dB typ of Small Signal Gain, IP3 typ of 25 dBm. This exceptional technical performance is achieved through the use of hybrid MIC design and advanced GaAs PHEMT devices. This gain block amplifier requires only a single positive supply, typically a +12V DC power supply and includes built-in voltage regulation, is unconditionally stable and operates over the temperature range of -30°C and +70°C.

Electrical Specifications (TA = +25°C, DC Voltage = 12Volts, DC Current = 70mA)

Description		Min	Тур	Max	Unit
Frequency Range		0.5		2	GHz
Small Signal Gain		15	17		dB
Gain Flatness			±0.4	±0.5	dB
Output at 1 dB Compres	sion Point		+15		dBm
Output 3rd Intercept Poi	nt		+25		dBm
Noise Figure			1.8		dB
Input VSWR			2:1		
Operating DC Voltage		11	12	15	Volts
Operating DC Current			70	80	mA
Operating Temperature I	Range	-30		+70	°C

Mechanical Specifications

Size Length Width Height	
Weight	
Input Connector Output Connector	

Environmental Specifications

Temperature

Operating Range

-30 to +70 deg C

1.1 in [27.94 mm]

0.9 in [22.86 mm]

0.5 in [12.7 mm]

SMA Female

SMA Female

0.0645 lbs [29.26 q]

Compliance Certifications (see product page 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.



Features:

- .5 GHz to 2 GHz
- Frequency Range
- P1dB 15 dBm min
- Small Signal Gain 17 dB typ
- IP3 25 dBm typ
- 50 Ohm Input and Output Matched
- -30 to +70°C Operating Temperature
- Single DC Positive Supply
- Built-in Voltage Regulator

Applications:

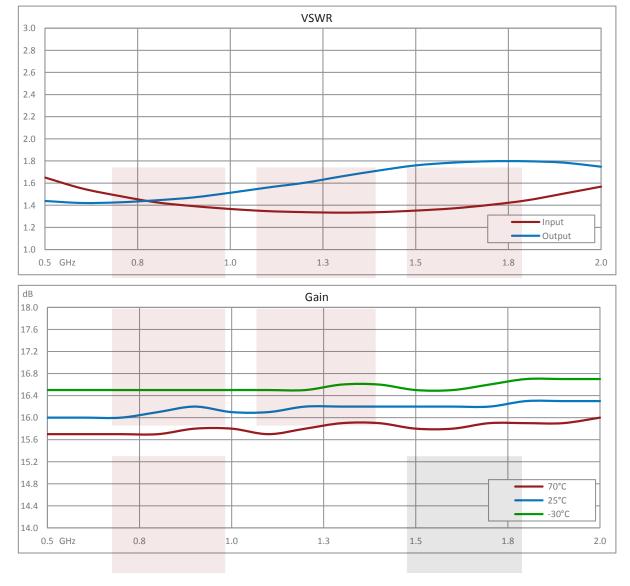
- Laboratory Applications
- R&D Labs
- Military Radio
- Radar Systems
- Telecom Infrastructure
- Test Instrumentation
- Military & Space
- Communication Systems
- Wireless Communication
- Microwave Radio Systems
- Cellular Base Stations
- Low Noise Amplifier
- General Purpose Amplification
- General Purpose Wireless
- Wideband Gain Block
- IF Amplifier/RF Driver Amplifier
- RF Wideband Front Ends
- RF Pre-amplification

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





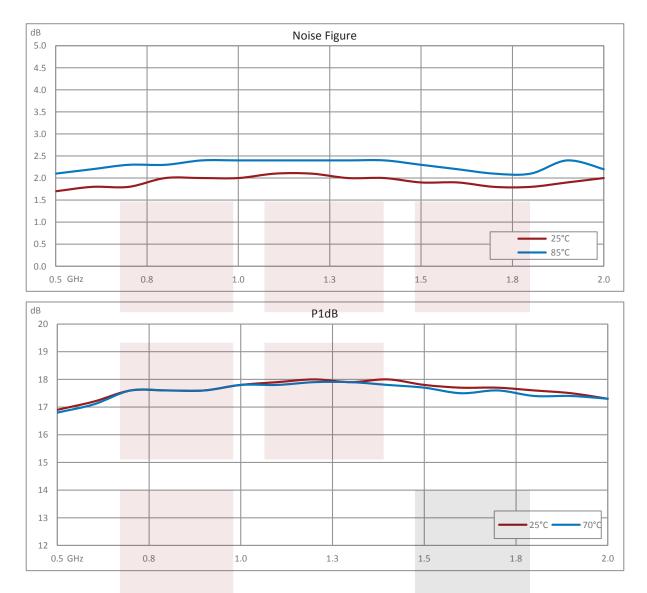
Typical Performance Data



1130 Junction Dr. #100 Allen, TX 75013 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689







17 dB Gain Block Amplifier Operating From 500 MHz to 2 GHz with 15 dBm P1dB and SMA from Fairview Microwave is instock 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: 17 dB Gain Block Amplifier Operating From 500 MHz to 2 GHz with 15 dBm P1dB and SMA FMAM8004

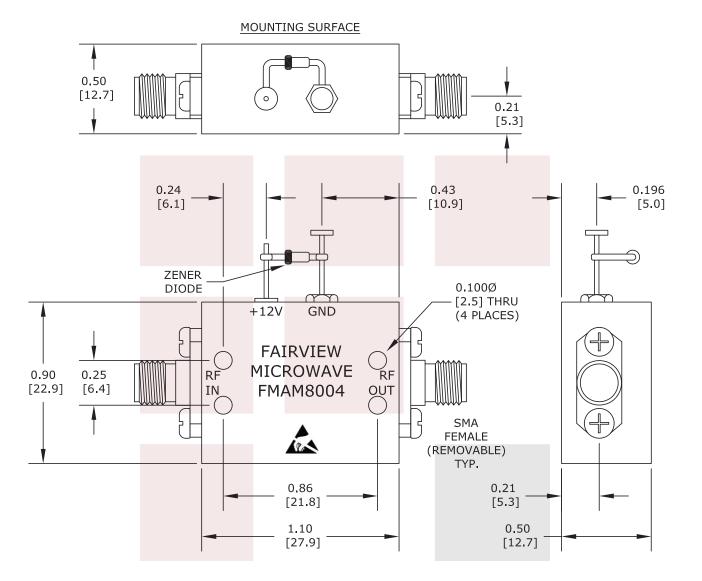
URL: https://www.fairviewmicrowave.com/17-db-gain-block-amplifier-2-ghz-fmam8004-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

1130 Junction Dr. #100 Allen, TX 75013 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689







NOTE:

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

FAIRVIEW MICROWAVE INC.	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 17 dB Gain Block Amplifier Operating From 500 MHz to 2 GHz with 15 dBm P1dB and SMA	DWG NO FMAM8004				CAGE CODE 3FKR5			
	CAD FILE 032416	SHEET	SCAL	E N/A	SIZE A	2233		

1130 Junction Dr. #100 Allen, TX 75013 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689