

22 dB Gain Block Amplifier Operating From 50 MHz to 1,000 MHz with 12 dBm P1dB and SMA

The FMAM17 is wideband general purpose RF coaxial gain block amplifier operating in the 0.05 GHz to 1 GHz frequency range. The amplifier offers 12 dBm of P1dB, 22 dB of Gain. This exceptional technical performance is achieved through the use of hybrid MIC design. This gain block amplifier requires only a single positive supply, typically a +12V DC power supply.

Electrical Specifications (TA = +25°C, DC Voltage = 12Volts, DC Current = 150mA)

Description	Min	Typ	Max	Unit
Frequency Range	50		1,000	MHz
Small Signal Gain		22		dB
Gain Flatness		±0.75	±1.25	dB
Noise Figure			3.5	dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage			12	Volts
Operating DC Current			150	mA
Operating Temperature Range	-30		+70	°C

Mechanical Specifications

Size	
Length	2.36 in [59.94 mm]
Width	2.36 in [59.94 mm]
Height	0.75 in [19.05 mm]
Weight	0.248 lbs [112.49 g]
Input Connector	SMA Female
Output Connector	SMA Female

Environmental Specifications

Temperature	
Operating Range	-30 to +70 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

- Notes:
- Values at 25 °C, sea level



Features:

- 0.05 GHz to 1 GHz Frequency Range
- P1dB: 12 dBm
- High Small Signal Gain: 22 dB
- 50 Ohm Input and Output Matched
- Unconditionally Stable
- Single DC Positive Supply

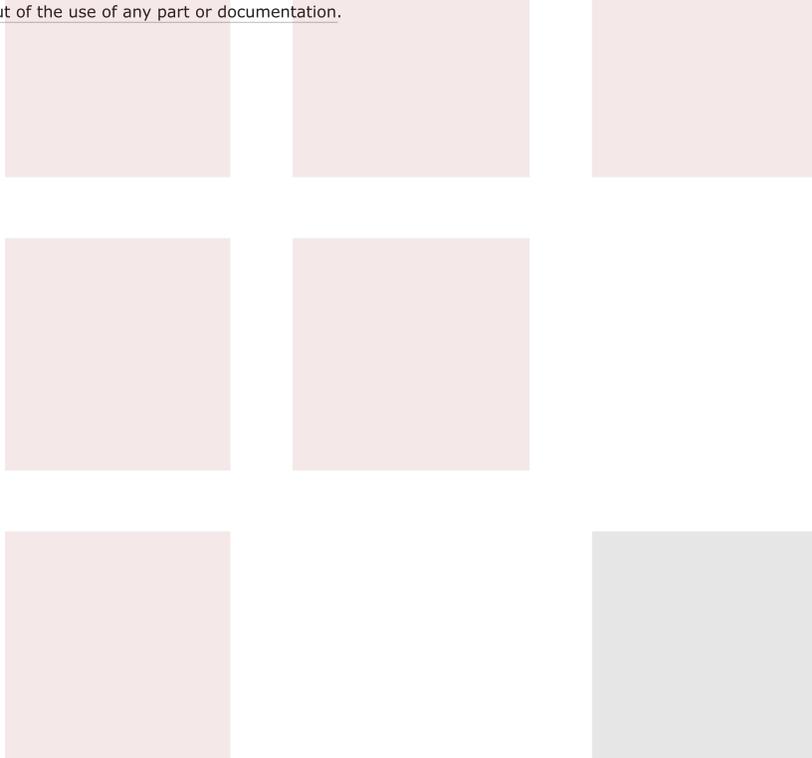
Fairview Microwave
 1130 Junction Dr. #100
 Allen, TX 75013
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

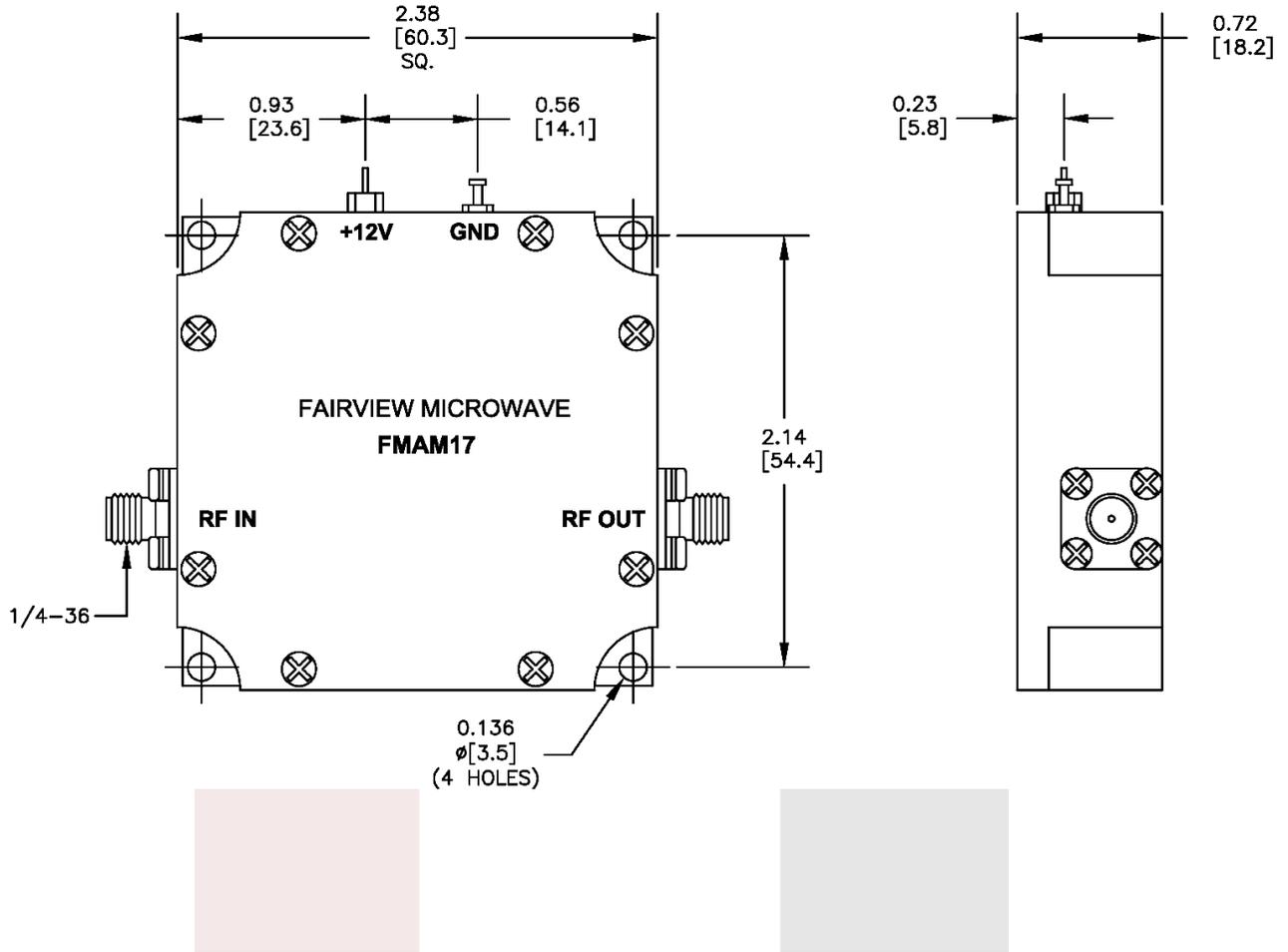
22 dB Gain Block Amplifier Operating From 50 MHz to 1,000 MHz with 12 dBm P1dB and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [22 dB Gain Block Amplifier Operating From 50 MHz to 1,000 MHz with 12 dBm P1dB and SMA FMAM17](#)

URL: <https://www.fairviewmicrowave.com/22-db-gain-block-amplifier-1000-mhz-fmam17-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.





STANDARD TOLERANCES	
.X	± 0.2
.XX	± 0.01
.XXX	± 0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].			
TITLE 22 dB Gain Block Amplifier Operating From 50 MHz to 1,000 MHz with 12 dBm P1dB and SMA		DWG NO FMAM17		CAGE CODE 3FKR5	
CAD FILE	101917	SHEET	1 OF 1	SCALE	N/A
		SIZE	A		7361