



44 dB Gain High Power High Gain Amplifier at 8 Watt Psat Operating From 1 GHz to 3 GHz with 48 dBm IP3 and SMA

FMAM5037F is a high gain Class A/AB coaxial Linear Power Amplifier operating in the 1000 to 3000 MHz frequency range. The amplifier offers a Wide Dynamic Range with 8 Watts typical saturated power, 44 dB typical small signal gain, ± 1.5 dB gain flatness maximum, and a high Output IP3 of ± 4.8 dBm typical. The amplifier requires typically a ± 1.3 V DC power supply, is unconditionally stable, and operates over the temperature range of 0°C and ± 5.0 °C. The unit includes a Heatsink and Fan.

Electrical Specifications (TA = +25°C, DC Voltage = 13Volts, DC Current

= 4,	00	0m	A)
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Description	Min		Тур	Max	Unit
Frequency Range	1			3	GHz
Small Signal Gain	39		44		dB
Gain Flatness				±1.5	dB
Input Power				+10	dBm
Psat			+39		dBm
P1dB	+37.8	3			dBm
Output 3rd Order Intercept	Point		+48		dBm
Harmonics @6 Watts			-20		dBc
Spurious @6 Watts			-60		dBc
Input VSWR				2:1	
Operating DC Voltage			13		Volts
Operating DC Current				4,000	mA
Operating Temperature Rai	nge 0			+50	°C

Mechanical Specifications

Size

 Length
 8.7 in [220.98 mm]

 Width
 5.2 in [132.08 mm]

 Height
 3.5 in [88.9 mm]

 Weight
 4 lbs [1.81 Kg]

 Input Connector
 SMA Female

 Output Connector
 SMA Female

Environmental Specifications

Temperature

Operating Range 0 to +50 deg C

Humidity 95% Non-Condensing
Shock Normal Truck Transport
Vibration Normal Truck Transport
Altitude 10000 feet Above Sea Level



Features:

- 1000 MHz to 3000 MHz Frequency Range
- Psat 8 Watts typ
- Small Signal Gain: 39 dB min
- Gain Flatness ±1.5 dB max
- Class A/AB
- IP3 48 dBm typ
- 50 Ohms Input and Output Matched
- Unconditionally Stable
- Regulated Supply
- RF Input Signal Format CW/AM/FM/PM/Pulse
- SMA Female RF Connectors
- · Heatsink and Fan

Applications:

- Military Radio
- Communication Systems
- · High Gain Driver Power Amplifier
- High Gain Output Power Amplifier

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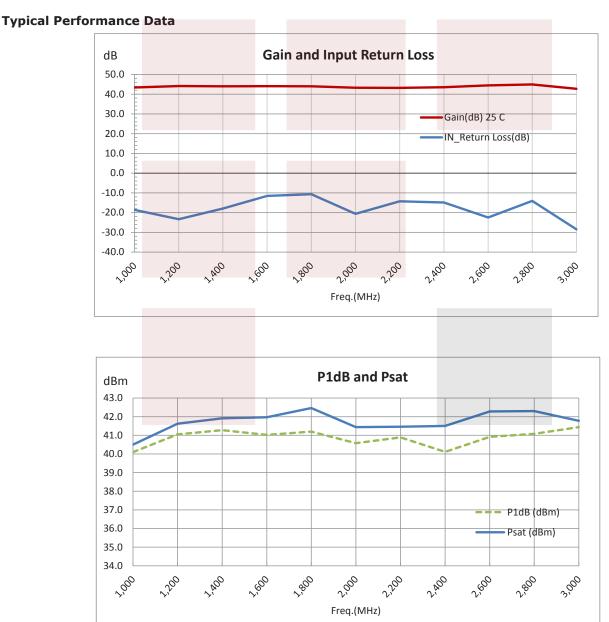
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

Plotted and Other Data

Notes:

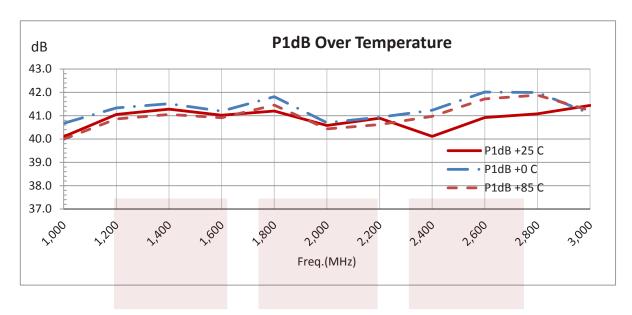
- · Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.
- Heat Sink Required for Proper Operation, Unit is cooled by conduction to heat sink.

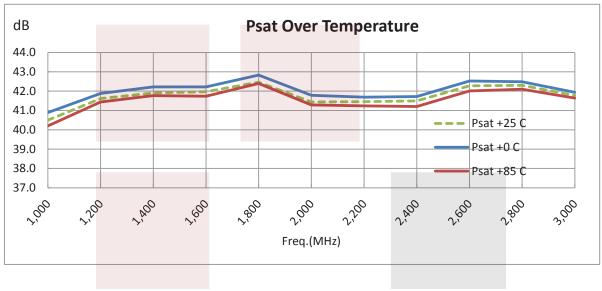




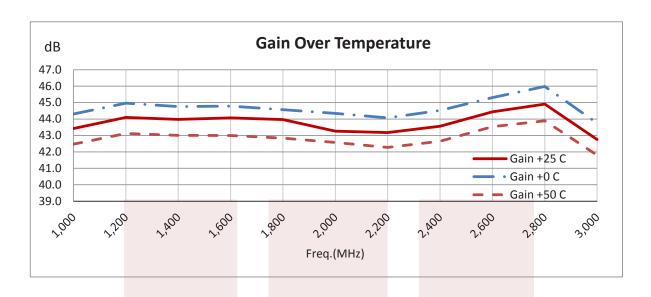


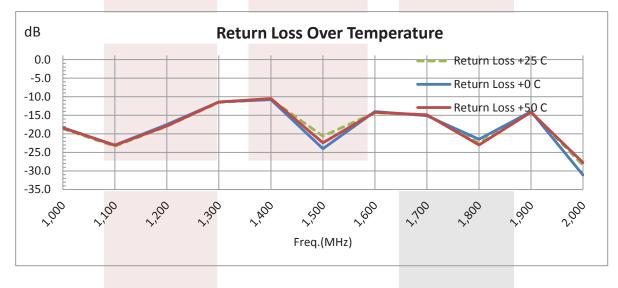












44 dB Gain High Power High Gain Amplifier at 8 Watt Psat Operating From 1 GHz to 3 GHz with 48 dBm IP3 and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

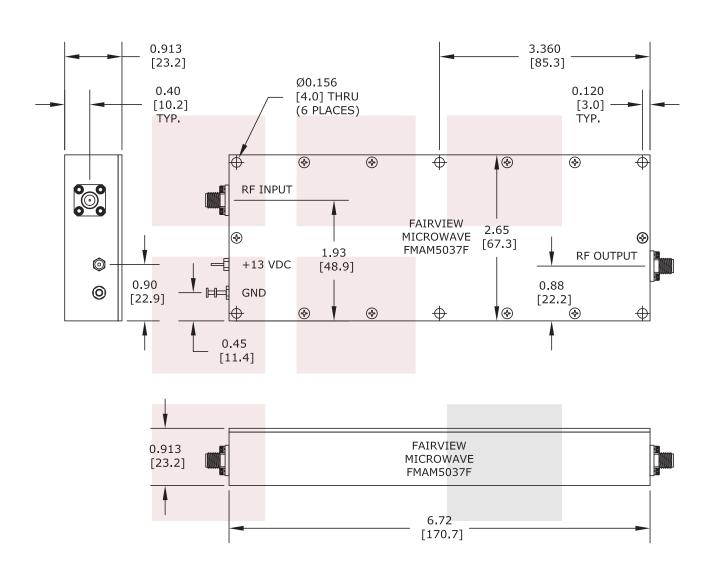
For additional information on this product, please click the following link: 44 dB Gain High Power High Gain Amplifier at 8 Watt Psat Operating From 1 GHz to 3 GHz with 48 dBm IP3 and SMA FMAM5037F

URL: http://www.fairviewmicrowave.com/44db-high-power-high-gain-amplifier-8watt-fmam5037f-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.



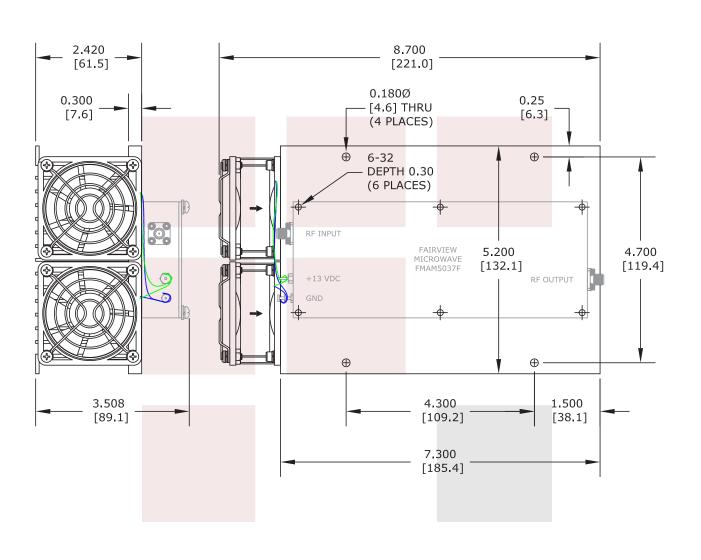




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	CAD FILE 051815	SHEET	SCALE	≣ N/A	SIZE A	2233







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