

**High Power Amplifier at 4 Watt Psat Operating
From 1 MHz to 1,000 MHz with 36 dB Gain, 39 dBm
IP3 and SMA**

FMAM5030F is a high gain Class A/AB coaxial Linear Power Amplifier operating in the 1 to 1000 MHz frequency range. The amplifier offers a Wide Dynamic Range with 4 Watts typical (2 Watt minimum) saturated power, 36 dB minimum small signal gain, ± 1.5 dB gain flatness maximum, and a high Output IP3 of +39 dBm typical. The amplifier requires typically a +28V DC power supply, is unconditionally stable, and operates over the temperature range of 0°C and +50°C. RF Input/Output Connectors are SMA Female. The unit includes a Heatsink and Fan.

Electrical Specifications (TA = +25°C, DC Voltage = 28Volts , DC Current = 1,700mA)

Description	Min	Typ	Max	Unit
Frequency Range	1		1,000	MHz
Small Signal Gain	36			dB
Gain Flatness			± 1.5	dB
Input Power			+3	dBm
Psat		+36		dBm
P1dB	+33			dBm
Output 3rd Order Intercept Point		+39		dBm
Harmonics @2 Watts		-20		dBc
Spurious @2 Watts		-60		dBc
Input VSWR			2:1	
TTL Control	"1": On, "0": Off, Enable: 5V, Disable: 0V			
Operating DC Voltage		28		Volts
Operating DC Current			1,700	mA
Operating Temperature Range	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
Cooling	ADEQUATE HEATSINK INCLUDED

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:

- 1 MHz to 1000 MHz Frequency Range
- Psat 4 Watts typ
- Small Signal Gain: 36 dB min
- Gain Flatness ± 1.5 dB max
- Class A/AB
- IP3 39 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)

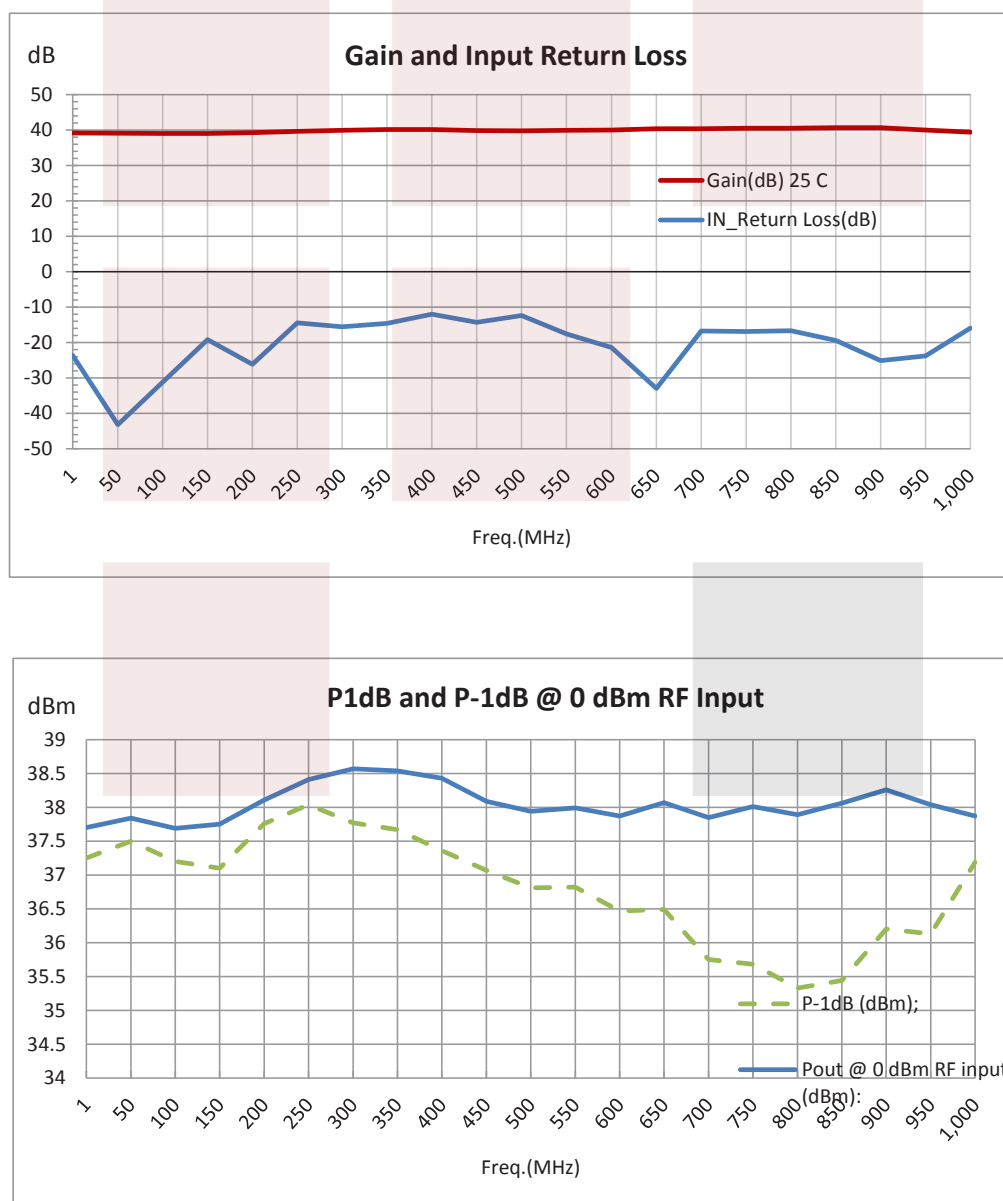
Plotted and Other Data

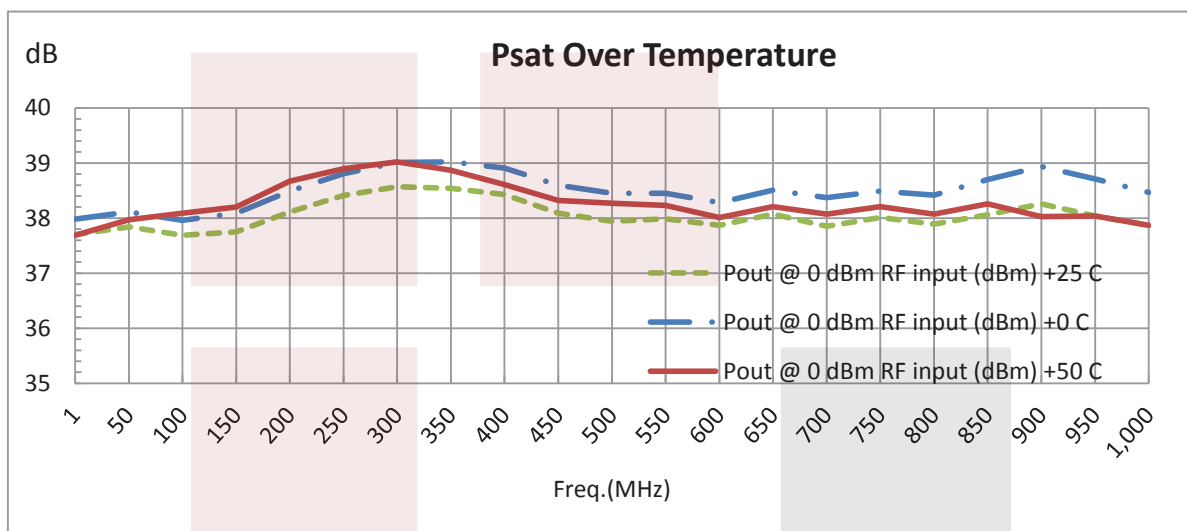
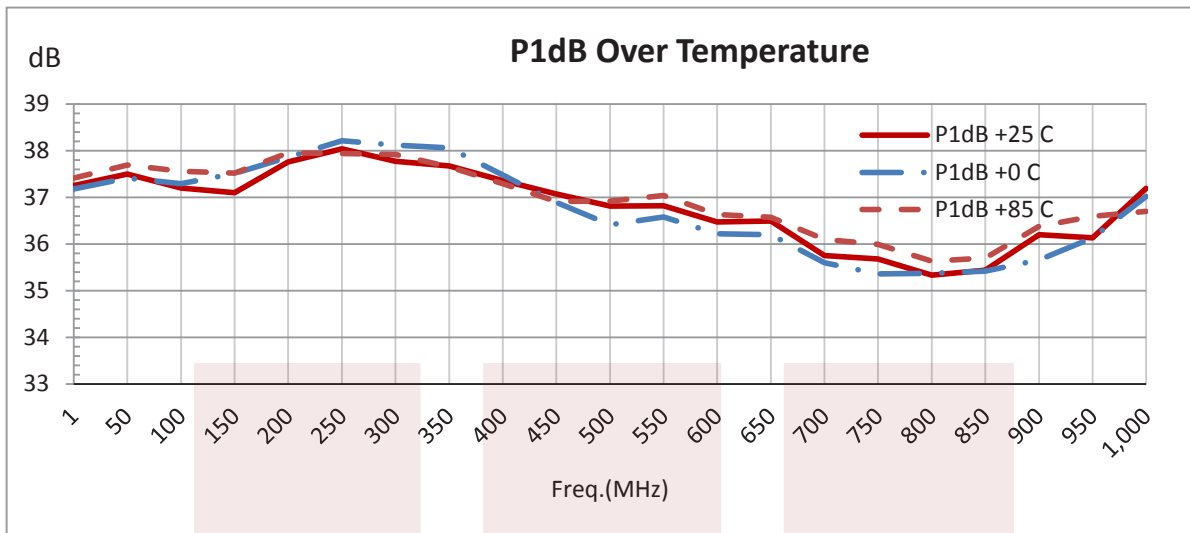
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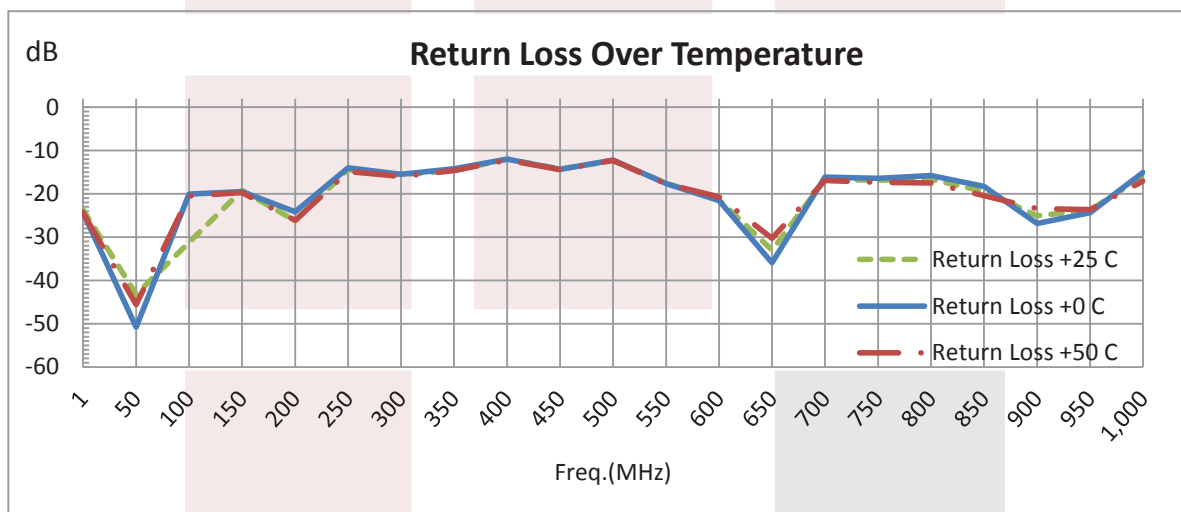
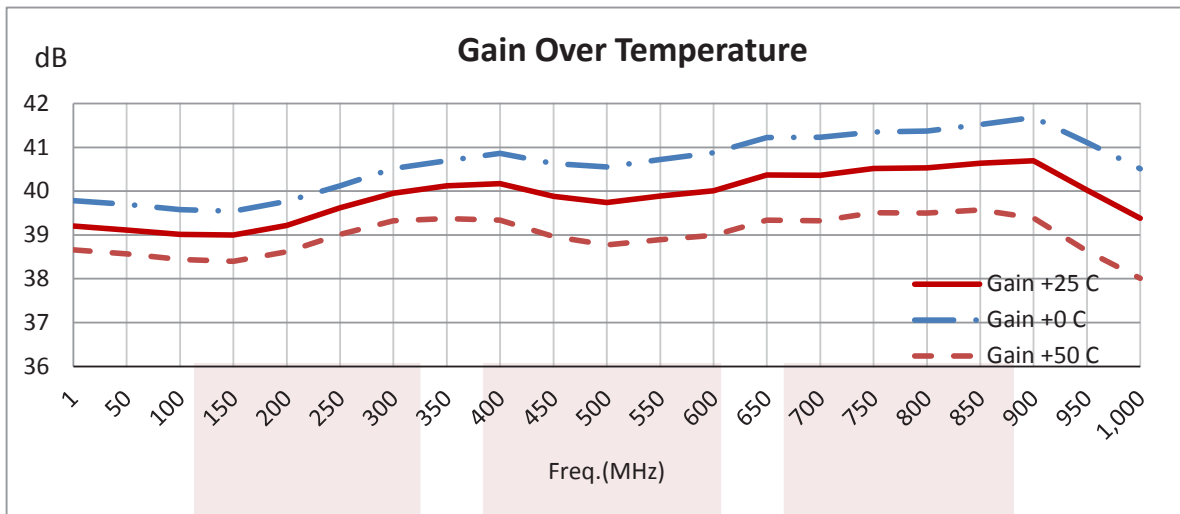
- Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.
- Heat Sink Required for Proper Operation, Unit is cooled by conduction to heat sink.



Typical Performance Data





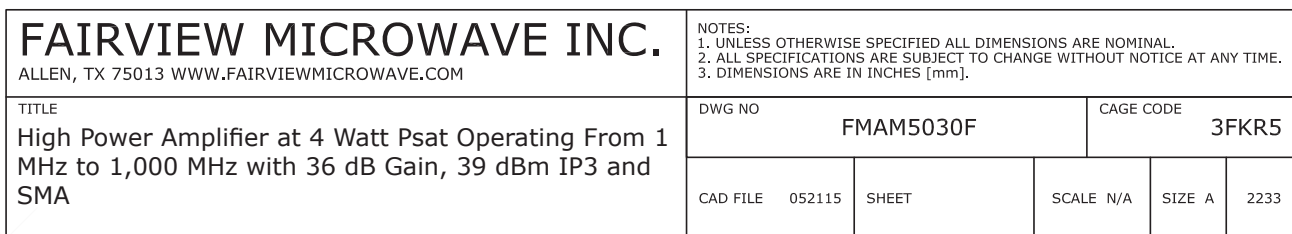


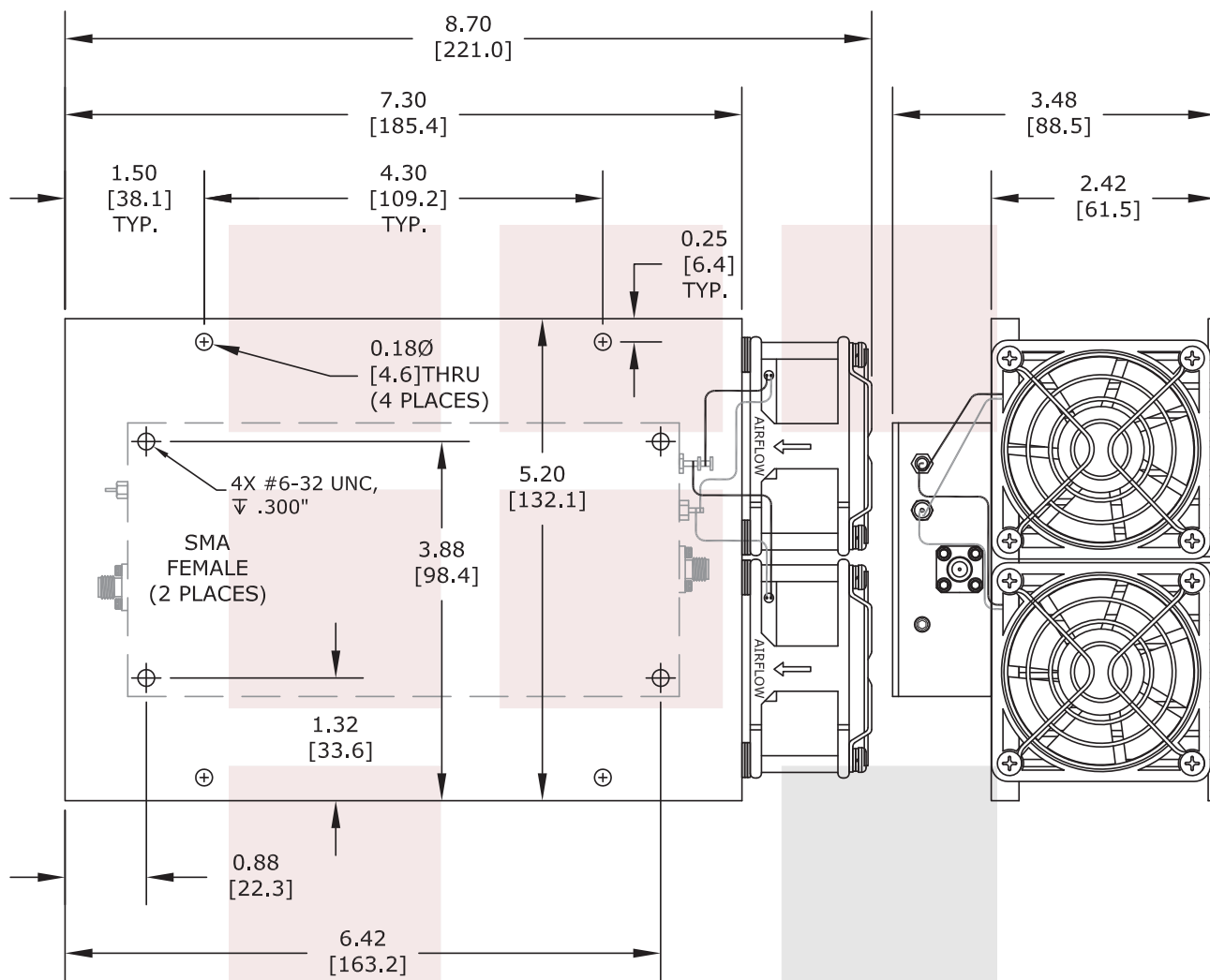
High Power Amplifier at 4 Watt Psat Operating From 1 MHz to 1,000 MHz with 36 dB Gain, 39 dBm IP3 and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [High Power Amplifier at 4 Watt Psat Operating From 1 MHz to 1,000 MHz with 36 dB Gain, 39 dBm IP3 and SMA FMAM5030F](http://www.fairviewmicrowave.com/high-power-amplifier-4watt-36db-fmam5030f-p.aspx)

URL: <http://www.fairviewmicrowave.com/high-power-amplifier-4watt-36db-fmam5030f-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.





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

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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
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MHz to 1,000 MHz with 36 dB Gain, 39 dBm IP3 and
SMA

DWG NO FMAM5030F		CAGE CODE 3FKR5		
CAD FILE 052115	SHEET 1	SCALE N/A	SIZE A	2233