

**46 dB Gain High Power High Gain Amplifier at
25 Watt Psat Operating From 20 MHz to 1,000 MHz
with 48 dBm IP3 and SMA**

FMAM5031 is a 25W high gain coaxial power amplifier operating in the 20 to 1000 MHz frequency range. The amplifier offers 25 Watts typical saturated power and 46 dB typical small signal gain with ± 1.5 dB maximum gain flatness. The amplifier requires typically a +28V DC power supply. The connectorized SMA module is unconditionally stable and operates over the temperature range of 0°C and +50°C.

Electrical Specifications (TA = +25°C, DC Voltage = 28Volts , DC Current = 5,200mA)

Description	Min	Typ	Max	Unit
Frequency Range	20		1,000	MHz
Small Signal Gain	46			dB
Gain Flatness			± 1.5	dB
Input Power			+0	dBm
Psat		+44		dBm
P1dB	+40			dBm
Output 3rd Order Intercept Point		+48		dBm
Harmonics		-20		dBc
Spurious		-60		dBc
Input VSWR			2:1	
Operating DC Voltage		28		Volts
Operating DC Current			5,200	mA
Operating Temperature Range	0		+50	°C

Mechanical Specifications

Size	
Length	6 in [152.4 mm]
Width	3 in [76.2 mm]
Height	1.1 in [27.94 mm]
Weight	1 lbs [453.59 g]
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:

- 20 MHz to 1000 MHz Frequency Range
- Psat 25 Watts typ
- Small Signal Gain: 46 dB min
- Gain Flatness ± 1.5 dB max
- IP3 48 dBm typ
- 50 Ohms Input and Output Matched
- Unconditionally Stable
- Regulated Supply

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)

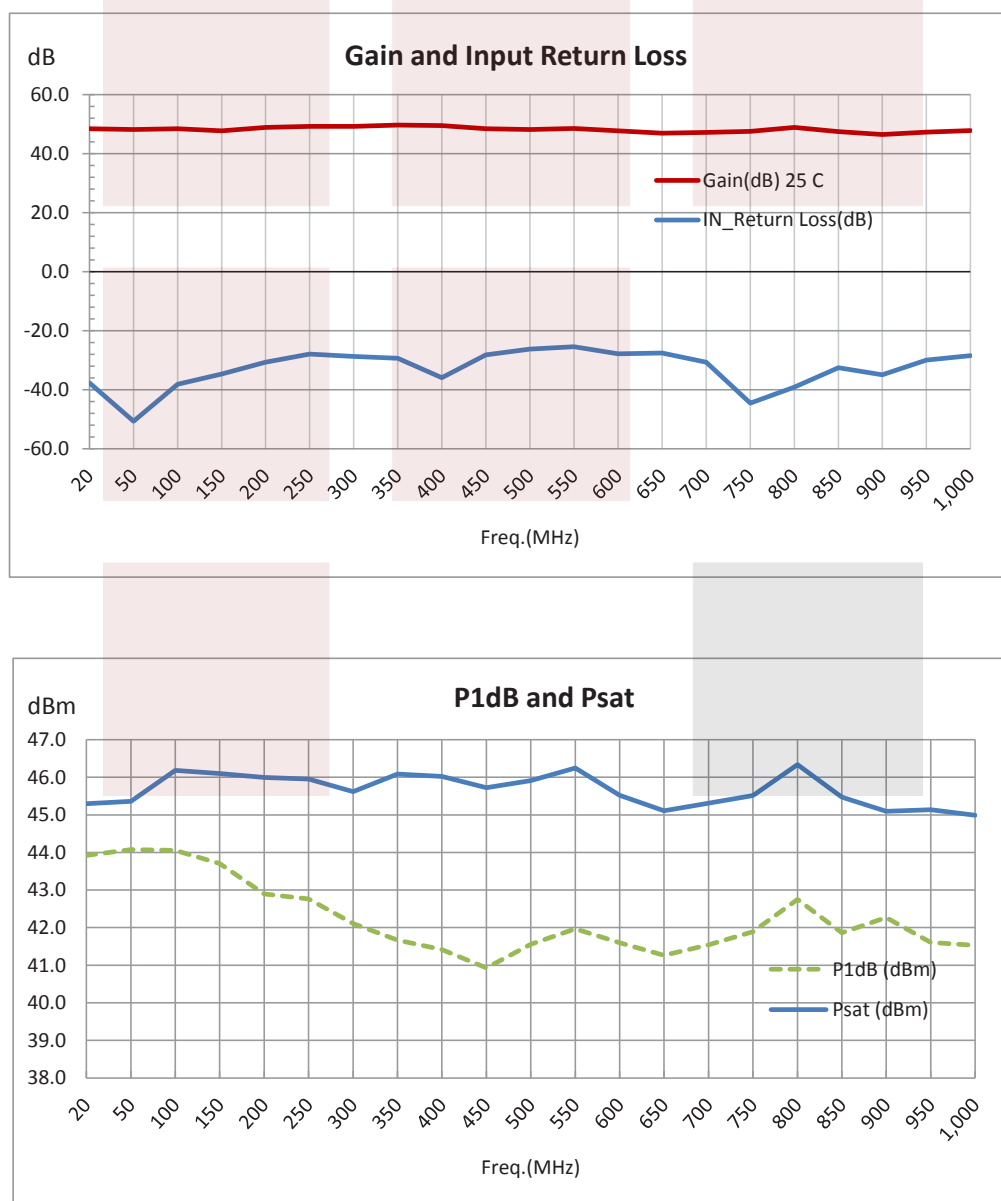
Plotted and Other Data

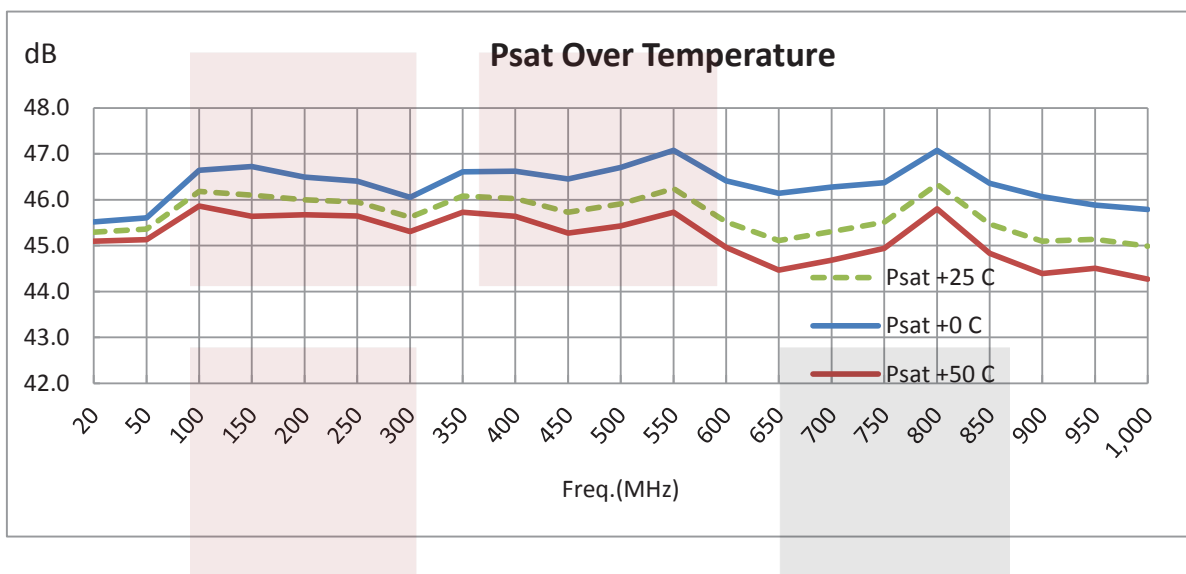
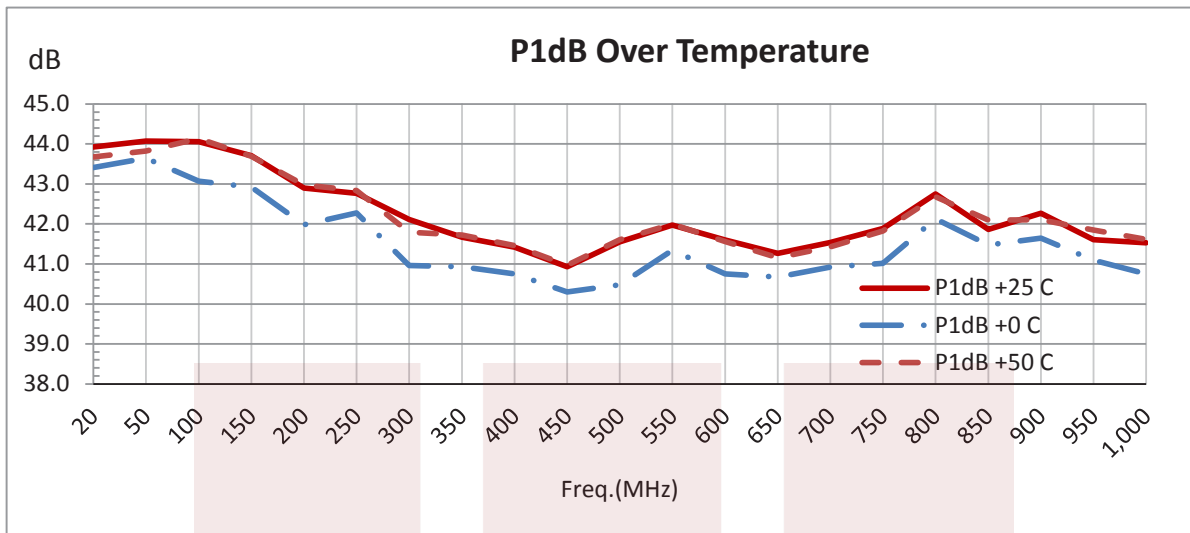
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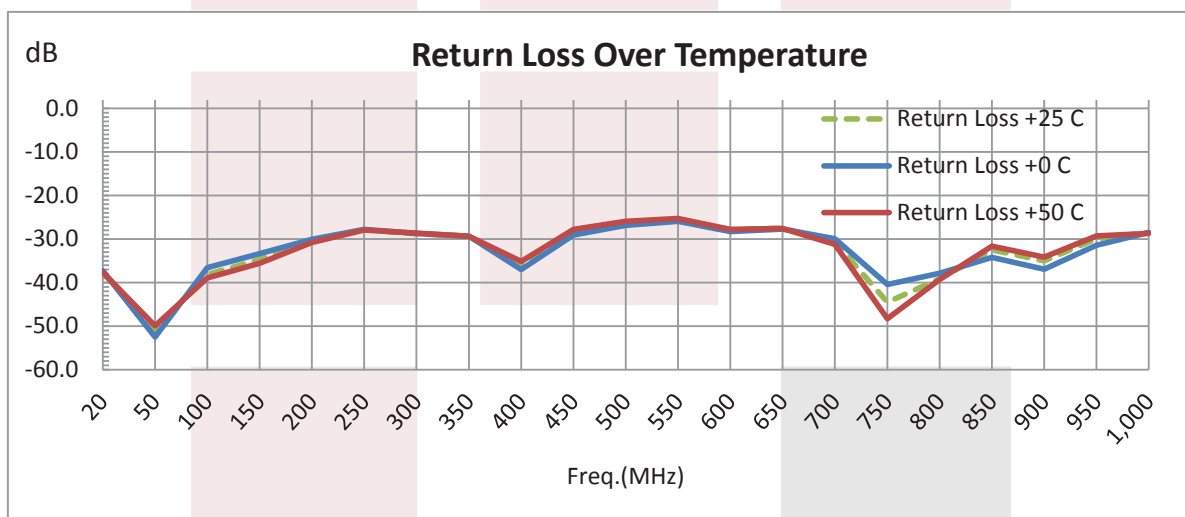
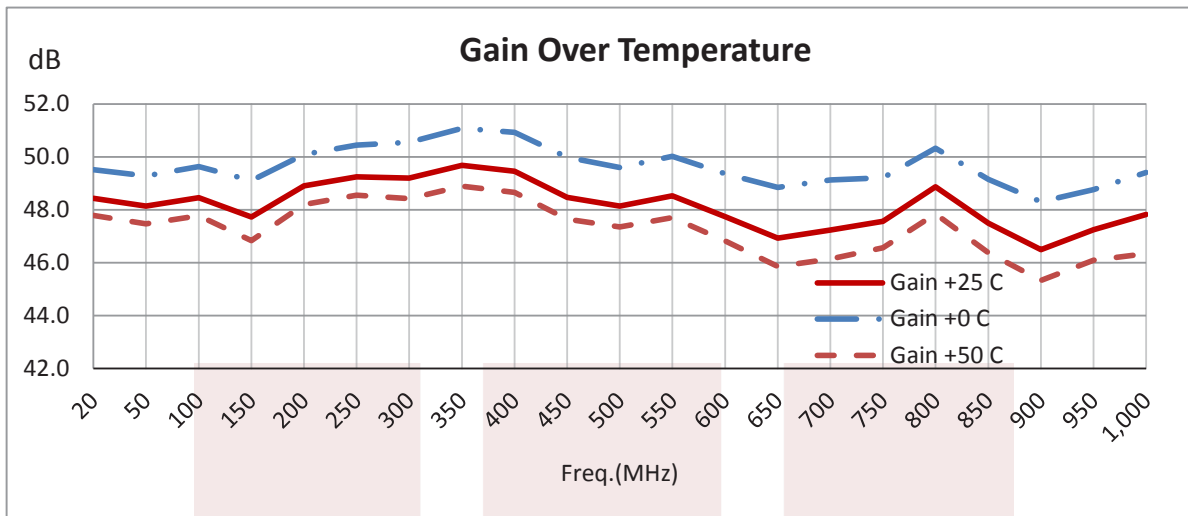
- Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.
- Heat Sink Required for Proper Operation, Unit is cooled by conduction to heat sink.



Typical Performance Data







46 dB Gain High Power High Gain Amplifier at 25 Watt Psat Operating From 20 MHz to 1,000 MHz 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: [46 dB Gain High Power High Gain Amplifier at 25 Watt Psat Operating From 20 MHz to 1,000 MHz with 48 dBm IP3 and SMA FMAM5031](http://www.fairviewmicrowave.com/46db-high-power-high-gain-amplifier-25watt-fmam5031-p.aspx)

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