

Limiting Amplifier Operating From 2 GHz to 4 GHz with -20 to 10 dBm Pin, 19 dBm Psat and SMA

Model Number FMAM6015 is a 2 to 4 GHz wideband limiting coaxial amplifier. The model operates with an input power range of -20 to +10 dBm and maintains a limited output of +19 dBm minimum. This connectorized amplifier offers a flat 40 dB gain and a gain flatness of ± 2.0 dB independent of the input. This excellent technical performance is achieved through the use of hybrid MIC design and advanced GaAs PHEMT devices, and supplied the power typically from a +12V DC power supply. The connectorized SMA module includes built-in voltage regulation, bias sequencing, and reverse bias protection for added reliability. The module is hermetically sealed for extreme environmental conditions.

Electrical Specifications (TA = +25°C, DC Voltage = 12Volts, DC Current = 200mA)

Description	Min	Typ	Max	Unit
Frequency Range	2		4	GHz
Small Signal Gain	40			dB
Input Power	-20		+10	dBm
Psat	+19			dBm
Input VSWR		2:1		
Output VSWR		2:1		
Operating DC Voltage		12	15	Volts
Operating DC Current			200	mA
Operating Temperature Range	-30		+70	°C

Configuration

Connector 1
Connector 2

SMA Female
SMA Female

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:

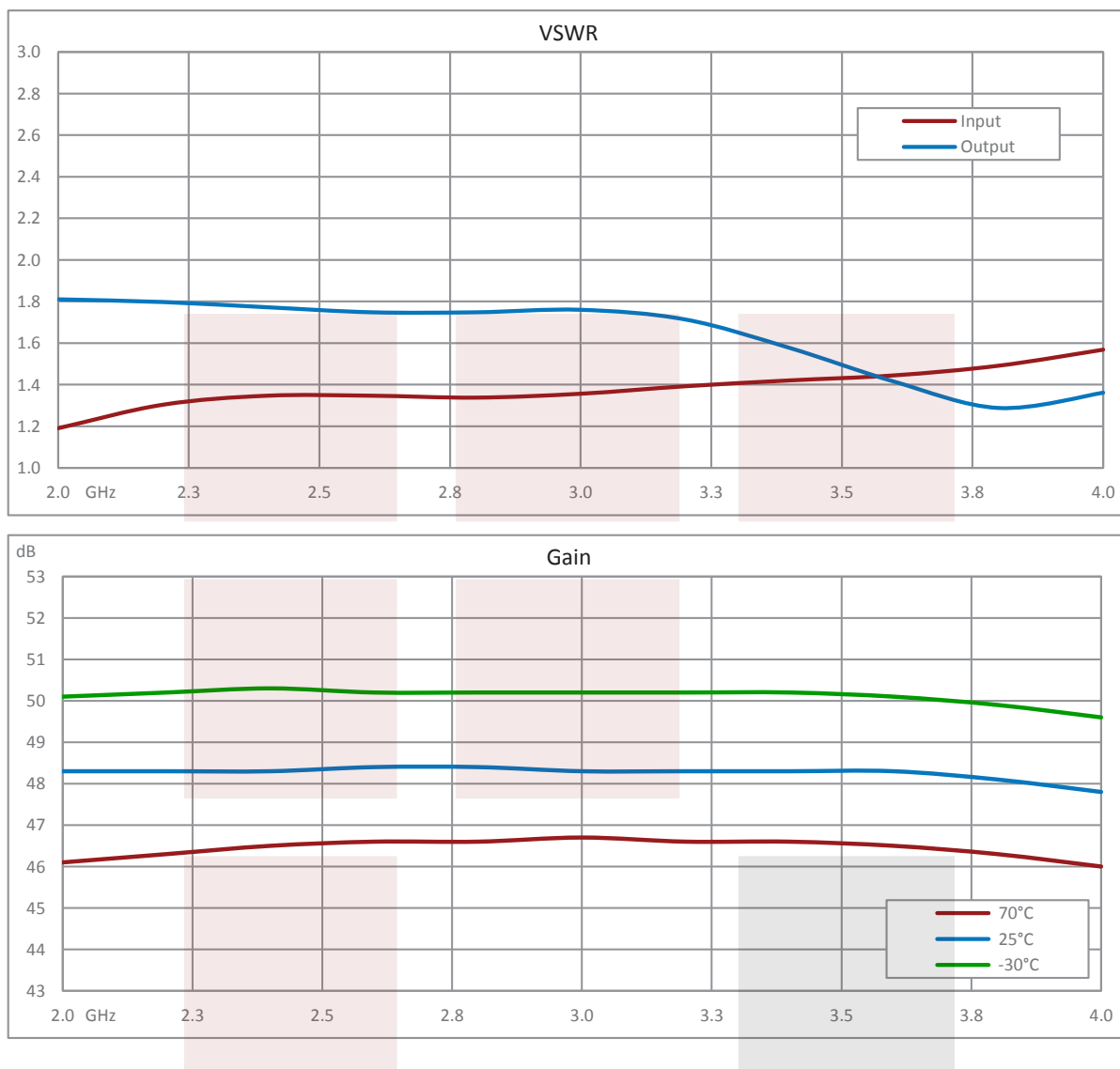
- 2 GHz to 4 GHz Frequency Range
- Wide Input Dynamic Range: -20 to +10 dBm
- Psat: 19dBm Min.
- High Small Signal Gain: 40 dB Min.
- Gain Flatness: ± 2 dB max
- Noise Figure: 4 dB maximum
- VSWR (In/Out) 2: 1
- 50 Ohm Input and Output Matched
- -30 to 70°C Operating Temperature
- Unconditionally Stable
- Regulated Supply & Bias Sequencing
- Hermetically Sealed Module
- Overvoltage External Protection for Easy Repair

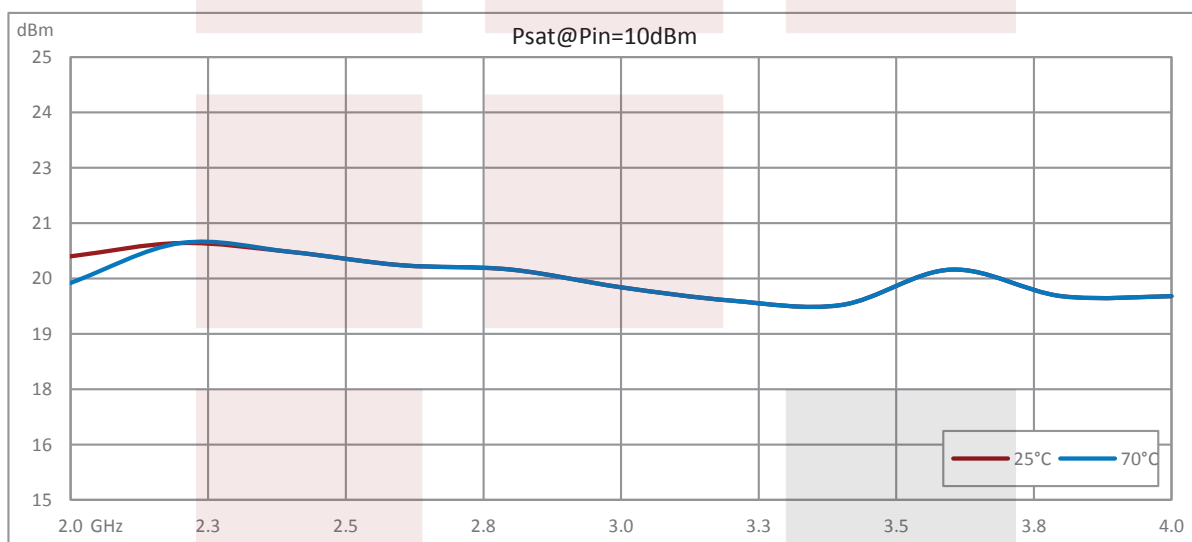
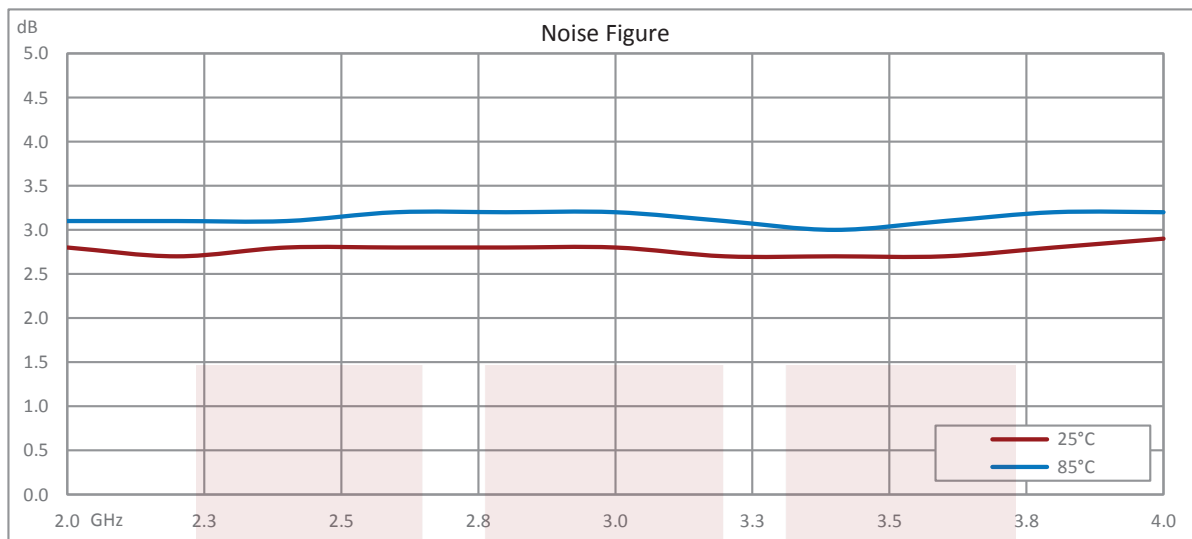
Applications:

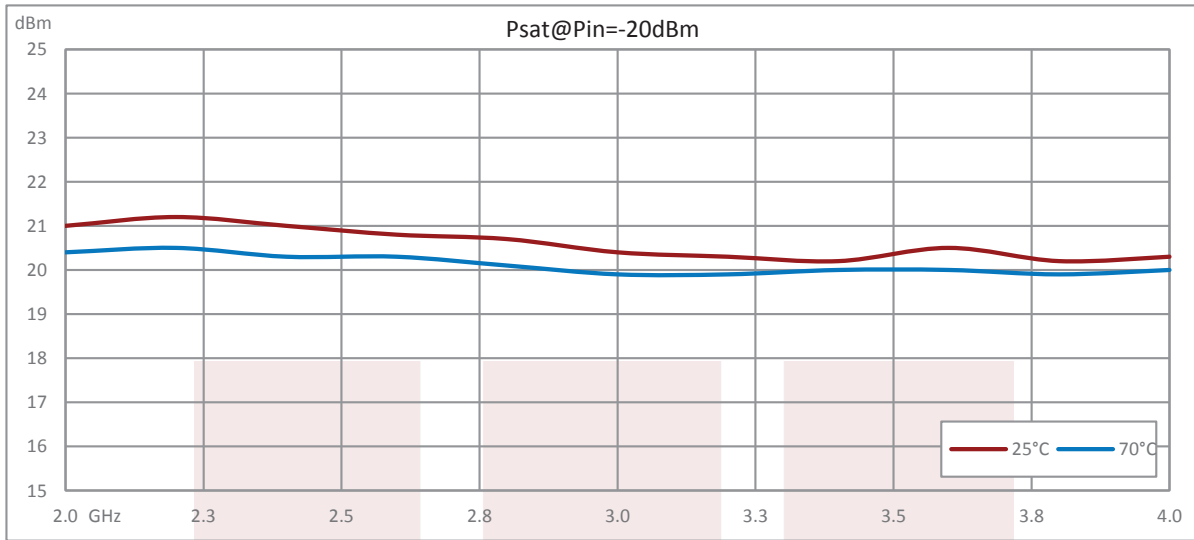
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Typical Performance Data





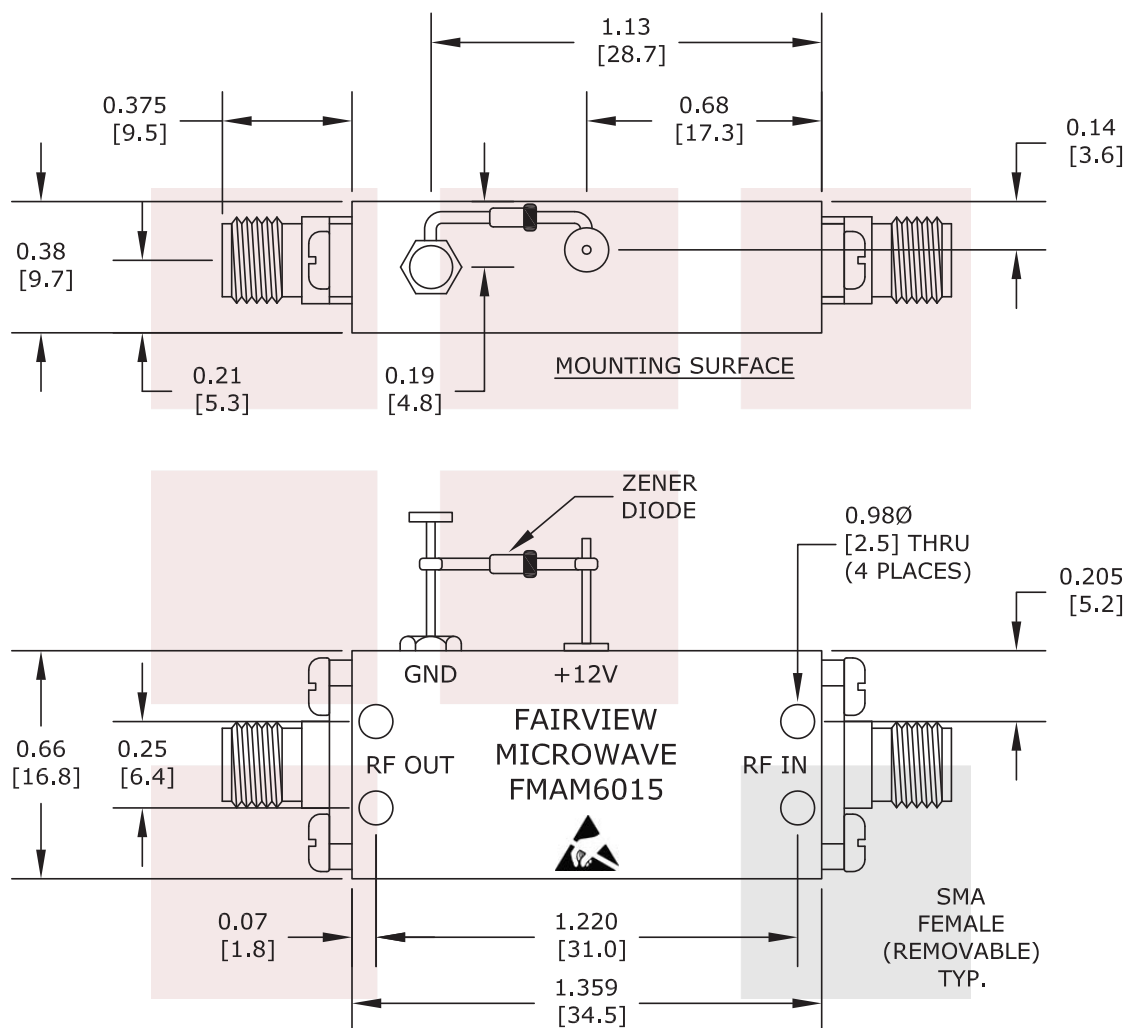


Limiting Amplifier Operating From 2 GHz to 4 GHz with -20 to 10 dBm Pin, 19 dBm Psat and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Limiting Amplifier Operating From 2 GHz to 4 GHz with -20 to 10 dBm Pin, 19 dBm Psat and SMA FMAM6015](#)

URL: <https://www.fairviewmicrowave.com/limiting-amplifier-2-4-ghz-fmam6015-p.aspx>

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

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TITLE Limiting Amplifier Operating From 2 GHz to 4 GHz with -20 to 10 dBm Pin, 19 dBm Psat and SMA		DWG NO FMAM6015		CAGE CODE 3FKR5	
CAD FILE	032316	SHEET	SCALE	N/A	SIZE A 2233