

**2 GHz to 18 GHz, Medium Power Broadband Amplifier with 16 dBm, 12 dB Gain and SMA**

FMAM4051 is a broadband coaxial power amplifier, operating in the 2 to 18 GHz frequency range. This amplifier utilizes high power devices that provide excellent linearity and high gain. The amplifier offers 16 dBm of P1dB typical and 12 dB small signal gain typ, with the gain flatness of  $\pm 1.5$  dB max. This power amplifier requires a +12 Volt DC supply, is unconditionally stable, operates over the temperature range of -40°C to 85°C, and is Hermetically sealed.



**Electrical Specifications** (TA= 25°C, VDC1 = 12 Vdc)

Description	Min	Typ	Max	Unit
Frequency Range	2		18	GHz
Gain		12		dB
Gain Flatness		$\pm 1.5$		dB
Gain Variance at OTR*		$\pm 1$		dB
P1dB		+16		dBm
Spurious			-60	dBc
Input VSWR		2:1		
Output VSWR		2:1		
Operating DC Voltage 1		12		Volts
Operating DC Current		65		mA
Operating Temperature Range (OTR)	-40		+85	°C

\*OTR= Base Plate Operating Temperature Range

**Mechanical Specifications**

<b>Size</b>	
Length	1.2 in [30.48 mm]
Width	0.85 in [21.59 mm]
Height	0.375 in [9.53 mm]
Weight	0.048 lbs [21.77 g]
Input Connector	SMA Female
Output Connector	SMA Female

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-40 to +85 deg C

**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.
  - Heat Sink Required for Proper Operation, Unit is cooled by conduction to heat sink.

**Features:**

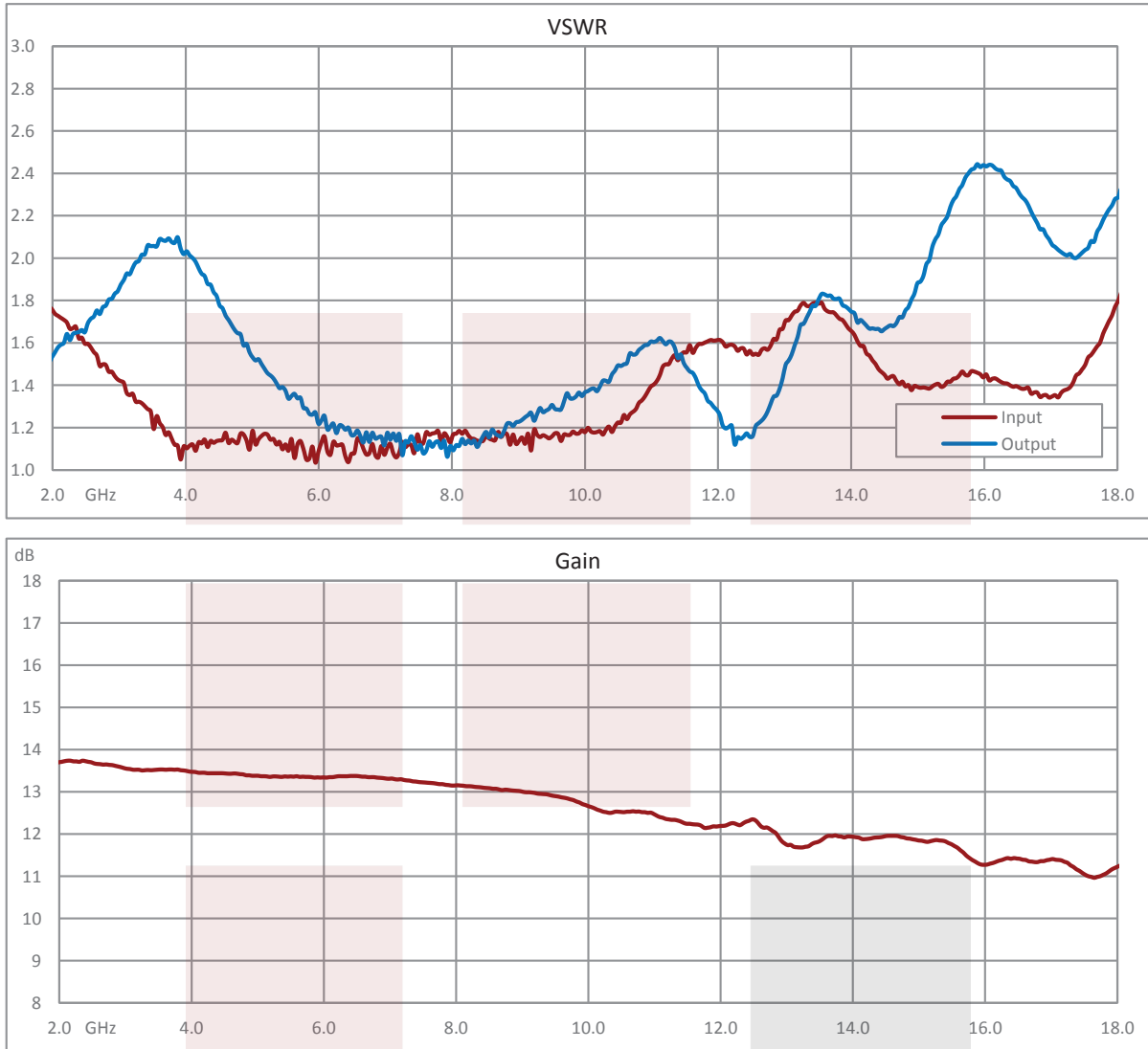
- 2 to 18 GHz Frequency Range
- P1dB: 16 dBm typ
- Small Signal Gain: 12 dB typ
- Gain Flatness:  $\pm 1.5$  dB max
- 50 Ohm Input and Output Matched
- -40 to +85°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply

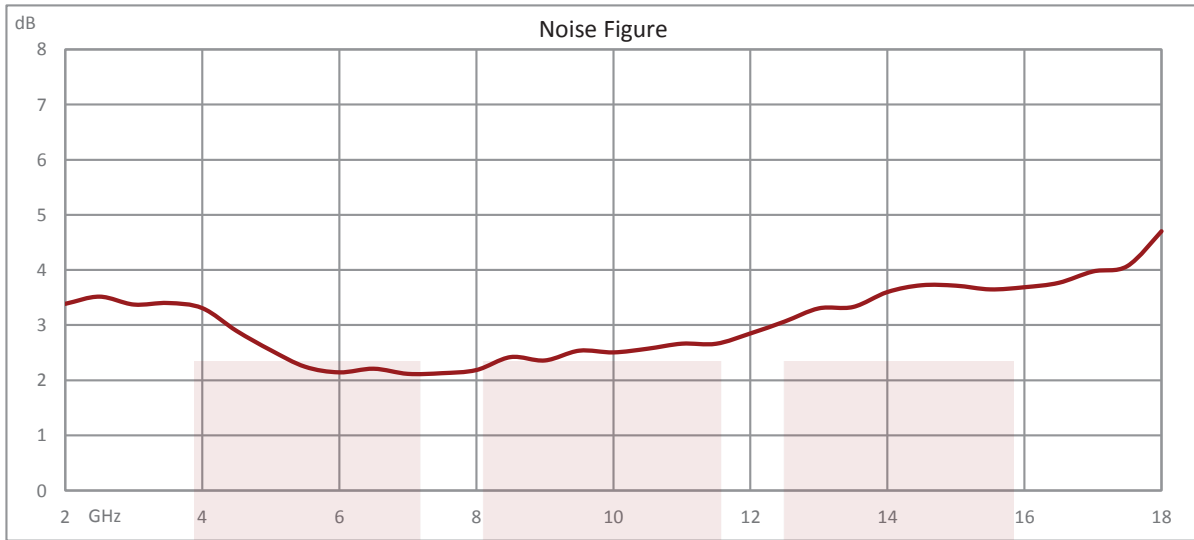
**Applications:**

- Laboratory Applications
- R&D Labs
- Test Instrumentation
- Military & Space
- Communication Systems
- Satellite Communications
- Wireless Communications
- Unmanned Systems
- Microwave Radio Systems
- Low Noise Amplifier
- General Purpose Amplification
- RF Front Ends

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**Typical Performance Data**



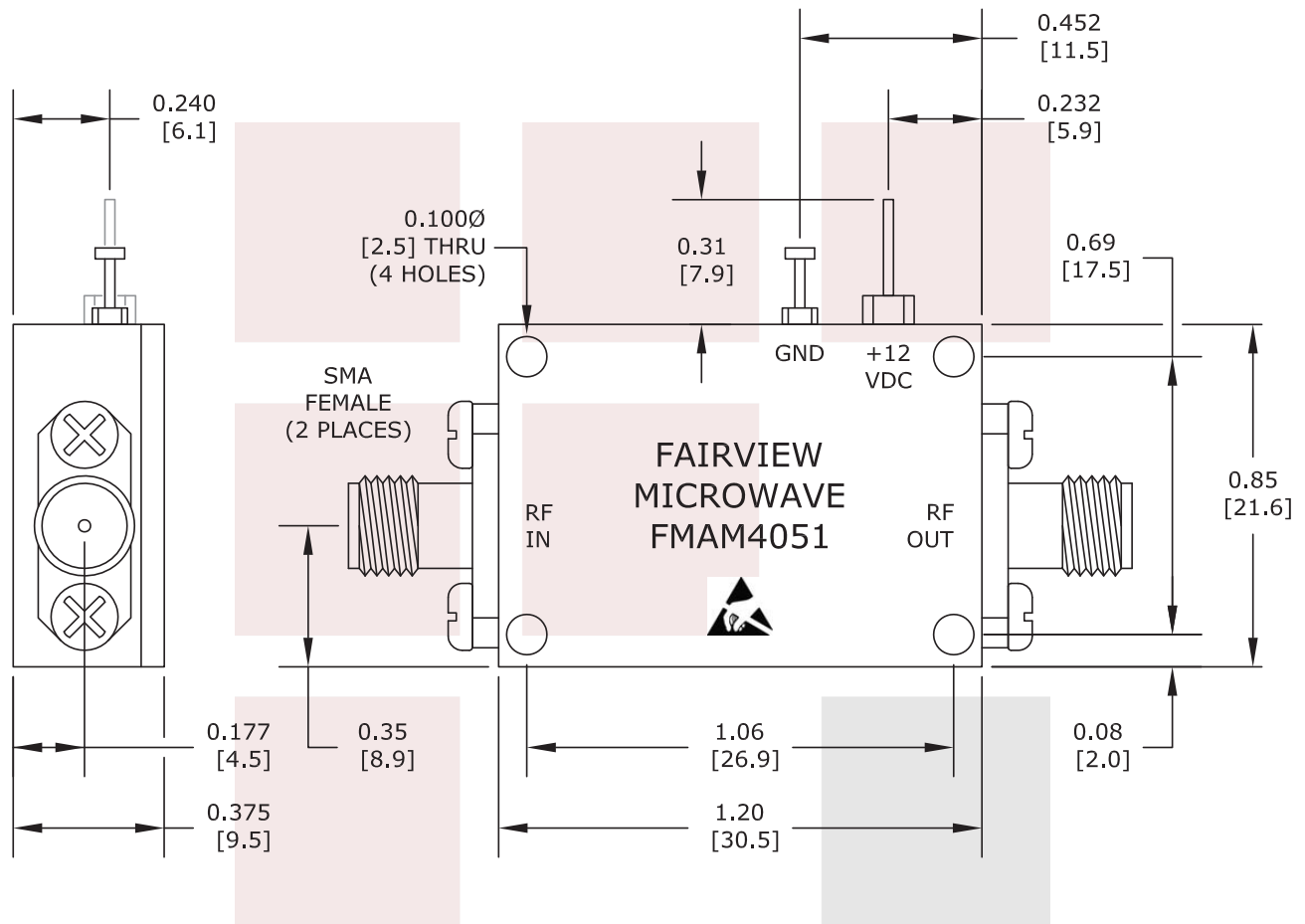


2 GHz to 18 GHz, Medium Power Broadband Amplifier with 16 dBm, 12 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 GHz to 18 GHz, Medium Power Broadband Amplifier with 16 dBm, 12 dB Gain and SMA FMAM4051](https://www.fairviewmicrowave.com/2-18-ghz-medium-power-broadband-amplifier-fmam4051-p.aspx)

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TITLE 2 GHz to 18 GHz, Medium Power Broadband Amplifier with 16 dBm, 12 dB Gain and SMA		DWG NO FMAM4051		CAGE CODE 3FKR5	
CAD FILE	071816	SHEET	SCALE	N/A	SIZE A 2233