

**22 dB Gain Block Amplifier Operating From 50 MHz to 2 GHz with 12 dBm P1dB and SMA**

The FMAM18 is wideband general purpose RF coaxial gain block amplifier operating in the 0.05 GHz to 2 GHz frequency range. The amplifier offers 12 dBm of P1dB, 22 dB of Gain. This exceptional technical performance is achieved through the use of hybrid MIC design . This gain block amplifier requires only a single positive supply, typically a +12V DC power supply.



**Electrical Specifications** (TA = +25°C, DC Voltage = 12Volts, DC Current = 150mA)

Description	Min	Typ	Max	Unit
Frequency Range	0.05		2	GHz
Small Signal Gain		22		dB
Gain Flatness		±1	±1.5	dB
Noise Figure			3.5	dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage			12	Volts
Operating DC Current			150	mA
Operating Temperature Range	-30		+70	°C

**Features:**

- 0.05 GHz to 2 GHz Frequency Range
- P1dB: 12 dBm
- High Small Signal Gain: 22 dB
- 50 Ohm Input and Output Matched
- Unconditionally Stable
- Single DC Positive Supply

**Mechanical Specifications**

Size	
Length	2.36 in [59.94 mm]
Width	2.36 in [59.94 mm]
Height	0.75 in [19.05 mm]
Weight	0.239 lbs [108.41 g]
Input Connector	SMA Female
Output Connector	SMA Female

**Environmental Specifications**

Temperature	
Operating Range	-30 to +70 deg C

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

- Notes:
- Values at 25 °C, sea level

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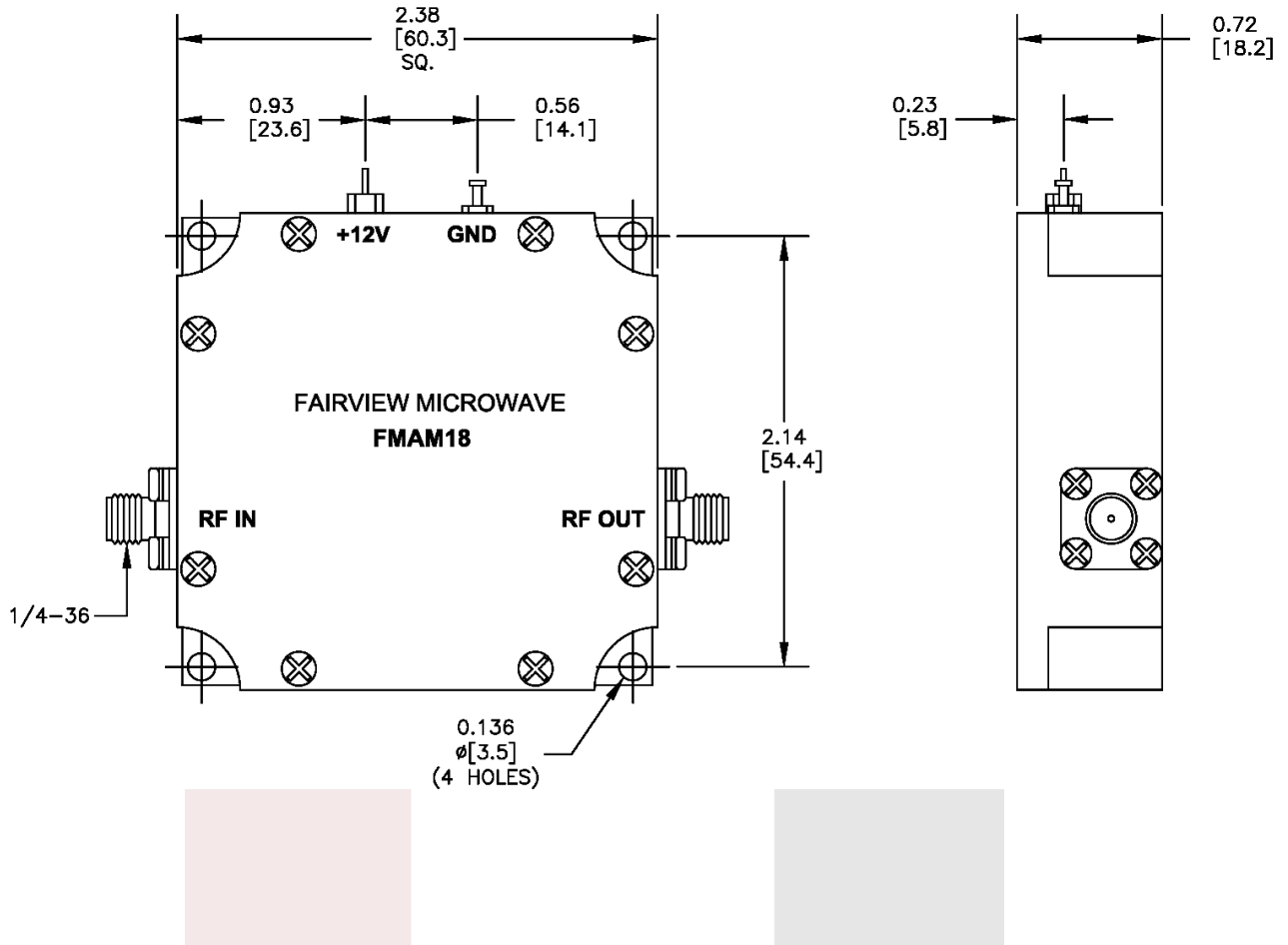
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For additional information on this product, please click the following link: [22 dB Gain Block Amplifier Operating From 50 MHz to 2 GHz with 12 dBm P1dB and SMA FMAM18](#)

URL: <https://www.fairviewmicrowave.com/22-db-gain-block-amplifier-2-ghz-fmam18-p.aspx>

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STANDARD TOLERANCES	
.X	$\pm 0.2$
.XX	$\pm 0.01$
.XXX	$\pm 0.005$

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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TITLE 22 dB Gain Block Amplifier Operating From 50 MHz to 2 GHz with 12 dBm P1dB and SMA		DWG NO FMAM18		CAGE CODE 3FKR5	
CAD FILE	101917	SHEET	1 OF 1	SCALE	N/A
		SIZE	A		7361