

26 dB Gain Block Amplifier Operating From 2 GHz to 6 GHz with 15 dBm P1dB and SMA

The FMAM21 is wideband general purpose RF coaxial gain block amplifier operating in the 2 GHz to 6 GHz frequency range. The amplifier offers 15 dBm of P1dB, 26 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 = 120mA)

Description	Min	Typ	Max	Unit
Frequency Range	2		6	GHz
Small Signal Gain		26		dB
Gain Flatness		±0.5	±1	dB
Noise Figure			3	dB
Input VSWR			2:1	
Output VSWR			2:1	
Operating DC Voltage			12	Volts
Operating DC Current			120	mA
Operating Temperature Range	-30		+70	°C

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	3.25 lbs [1.47 Kg]
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



Features:

- 2 GHz to 6 GHz Frequency Range
- P1dB: 15 dBm
- High Small Signal Gain: 26 dB
- 50 Ohm Input and Output Matched
- Unconditionally Stable
- Single DC Positive Supply

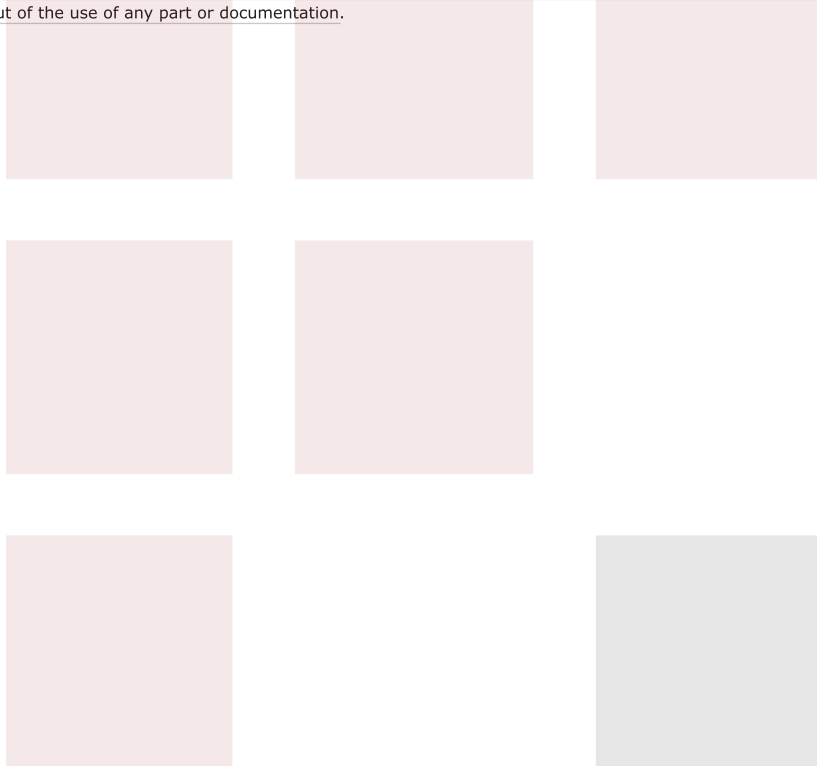
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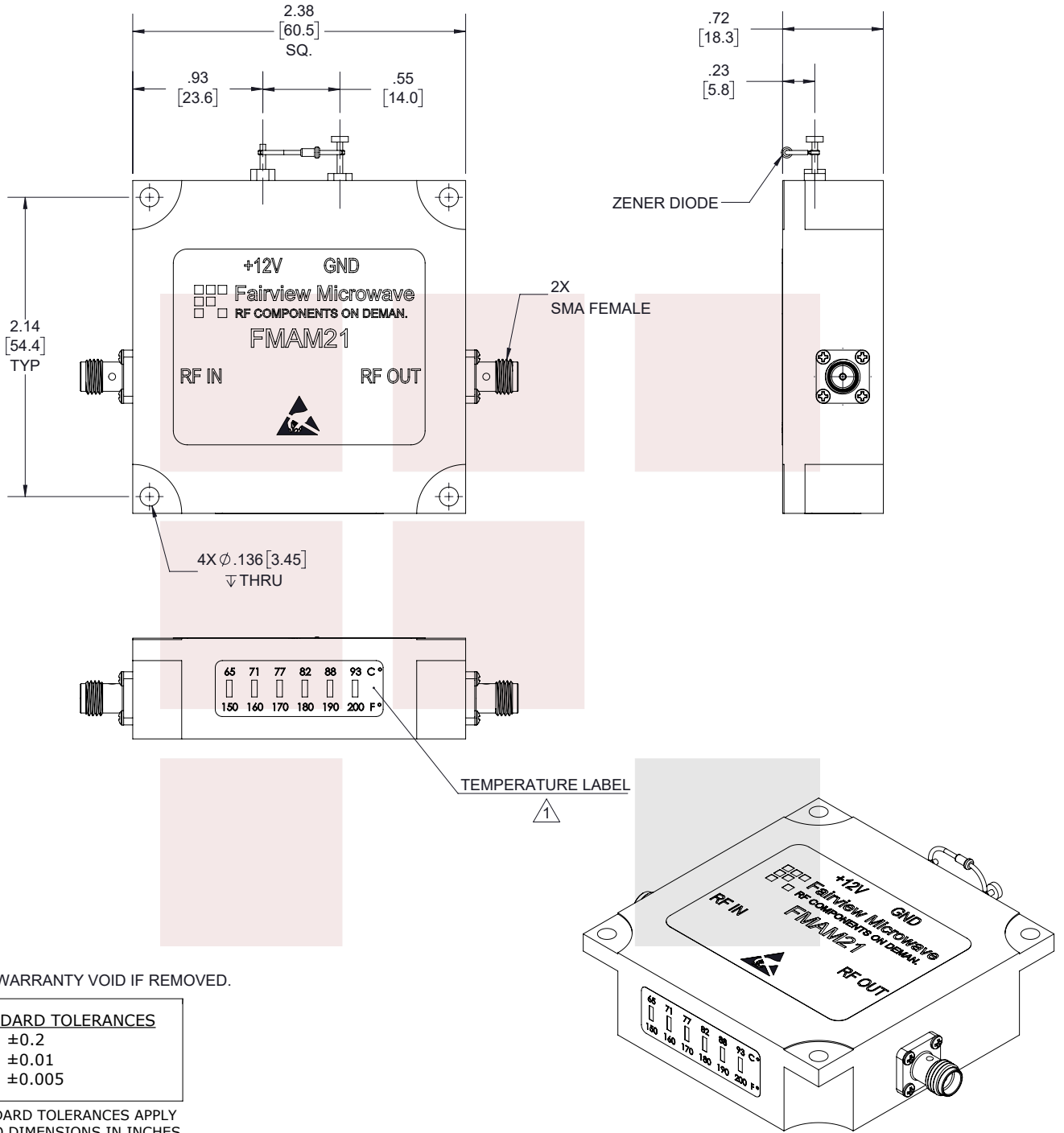
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For additional information on this product, please click the following link: [26 dB Gain Block Amplifier Operating From 2 GHz to 6 GHz with 15 dBm P1dB and SMA FMAM21](#)

URL: <https://www.fairviewmicrowave.com/26-db-gain-block-amplifier-6-ghz-fmam21-p.aspx>

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NOTE:
1. WARRANTY VOID IF REMOVED.

STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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 26 dB Gain Block Amplifier Operating From 2 GHz to 6 GHz with 15 dBm P1dB and SMA	DWG NO FMAM21		CAGE CODE 3FKR5			
	CAD FILE 05/18/18	SHEET 1 OF 1	SCALE N/A	SIZE A	7361	