



15 dB Gain Block Amplifier Operating From 10 MHz to 3 GHz with 11 dBm P1dB and SMA

The FMAM28 is a low noise RF coaxial amplifier operating in the 10 MHz to 3 GHz frequency range. The amplifier offers noise figure of 3.0 dB typical, 11 dBm typical P1dB, and 15 dB small signal gain. This exceptional technical performance is achieved through the use of a hybrid MIC design and advanced SiGe HBT technology. The low noise amplifier requires an operating voltage between 7-18 VDC. The connectorized SMA module is unconditionally stable and includes built-in voltage regulation and bias sequencing.

Electrical Specifications (TA = +25°C, DC Voltage = 18Volts, DC Current = 40mA)

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Description	Min		Тур	Max	Unit	
Frequency Range	0.01			3	GHz	
Small Signal Gain			15		dB	
Gain Flatness			±2		dB	
Output 3rd Intercept Poi	nt +10.5	5	+12		dBm	
Noise Figure			3		dB	
Operating DC Voltage	7			18	Volts	
Operating DC Current			40		mA	
Operating Temperature I	Range -40			+70	°C	

RF Characteristic

Description	F1	F2	F3	Units	
Frequency Range	0.01 to 1	1 to 2	2 to 3	GHz	
Small Signal Gain	16.5	15.2	14	dB	
Input Return Loss	19	15	14	dB	
Output Return Loss	20	16	16	dB	
Output at P1dB	+11.5	+11	+10	dBm	
Output 3rd Intercept Point	12.3	12	10.5	dBm	



Features:

- 10 MHz to 3 GHz frequency range
- P1db:11dbm Typ
- Small Signal Gain: 15 db Typ
- Noise Figure: 3.0 db Typ
- SiGe HBT Technology
- 50 Ohm Input and Output Matched
- Unconditionally Stable
- Single DC Positive Supply With EMI Filter
- Built-in voltage regulator
- Compact Aluminum Case

Applications:

- Laboratory Applications
- R&D Labs
- RADAR Systems
- Telecom Infrastructure
- Test Instrumentation
- Communication Systems
- UMTS
- Wireless Communication
- Microwave Radio Systems
- Cellular Base Station, Repeaters
- · Low Noise Amplifier
- General Purpose Amplification
- General Purpose Wireless
- GSM
- Wideband Gain Block
- IF Amplifier/RF Driver Amp
- RF Wideband Front Ends
- RF Pre Amplification
- Satellite

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Mechanical Specifications

Size

Input Connector SMA Female Output Connector SMA Female

Environmental Specifications

Temperature

Operating Range -40 to +70 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25 °C, sea level

15 dB Gain Block Amplifier Operating From 10 MHz to 3 GHz with 11 dBm P1dB and SMA from Fairview Microwave is instock 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: 15 dB Gain Block Amplifier Operating From 10 MHz to 3 GHz with 11 dBm P1dB and SMA FMAM28

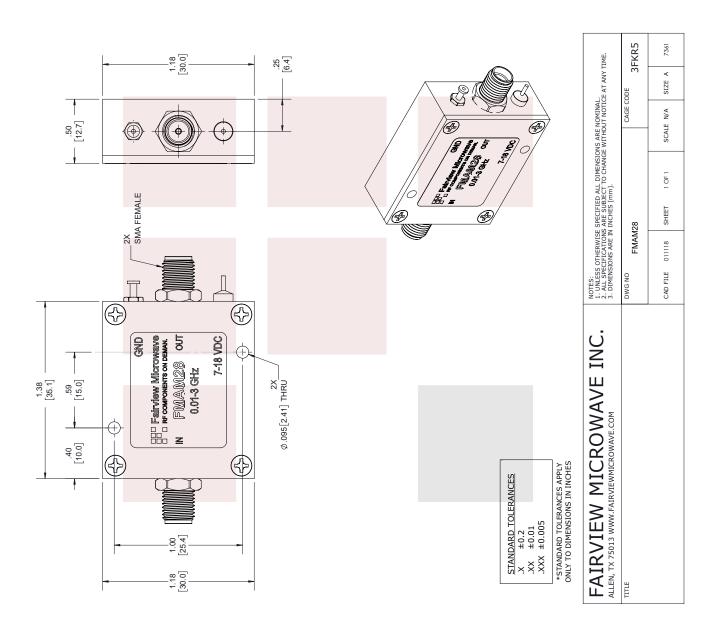
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