



High Power Amplifier at 7 Watt P1dB Operating From 8.5 GHz to 10.5 GHz with 36 dB Gain, 47 dBm IP3 and SMA

The FMAM5044 is a power coaxial amplifier operating in the 8.5 to 10.5 GHz frequency range. The amplifier offers 38.5 dBm typ of P1dB power and a high 36 dB typical small signal gain with the gain flatness of ± 1.5 dB typ. Input/output ports are matched for 50 ohms and are AC coupled. The amplifier requires typically a ± 12 V DC power supply. The connectorized SMA module is unconditionally stable and operates over the temperature range of ± 40 °C and ± 70 °C.

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

I,000mA)						
Description	Min	1	Тур	Max	Unit	
Frequency Range	8.5			10.5	GHz	
Small Signal Gain	33		36		dB	
Gain Flatness			±1.5	±1.8	dB	
P1dB	+37.5	5 .	+38.5		dBm	
Output 3rd Order Intercept	Point		+47		dBm	
Input VSWR				2:1		
Output VSWR				2:1		
Operating DC Voltage	11		12	13	Volts	
Operating DC Current			4,000		mA	
Operating Temperature Rai	nge -40			+70	°C	

FMAM5044 421F1114201600000012

Features:

- 8.5 to 10.5 GHz Frequency Range
- P1dB +38.5 dBm typ
- Small Signal Gain: 36 dB typ
- Gain Flatness ±1.5 dB typ
- 50 Ohms Input and Output Matched
- Unconditionally Stable
- Regulated Supply

Applications:

- Military Radio
- Communication Systems
- High Gain Driver Power Amplifier
- High Gain Output Power Amplifier

Mechanical Specifications

Size	
Length	2.36 in [59.94 mm]
Width	2.91 in [73.91 mm]
Height	0.63 in [16 mm]
Weight	0.366 lbs [166.01 g]
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
- 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.



Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

Tel: 1-800-715-4396 / (972) 649-6678

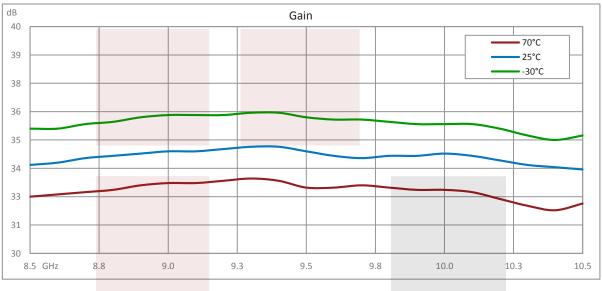
Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com



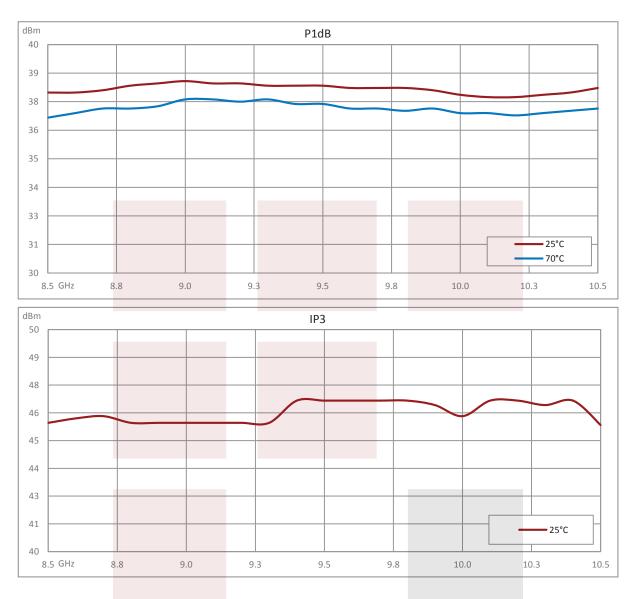


Typical Performance Data









High Power Amplifier at 7 Watt P1dB Operating From 8.5 GHz to 10.5 GHz with 36 dB Gain, 47 dBm IP3 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.

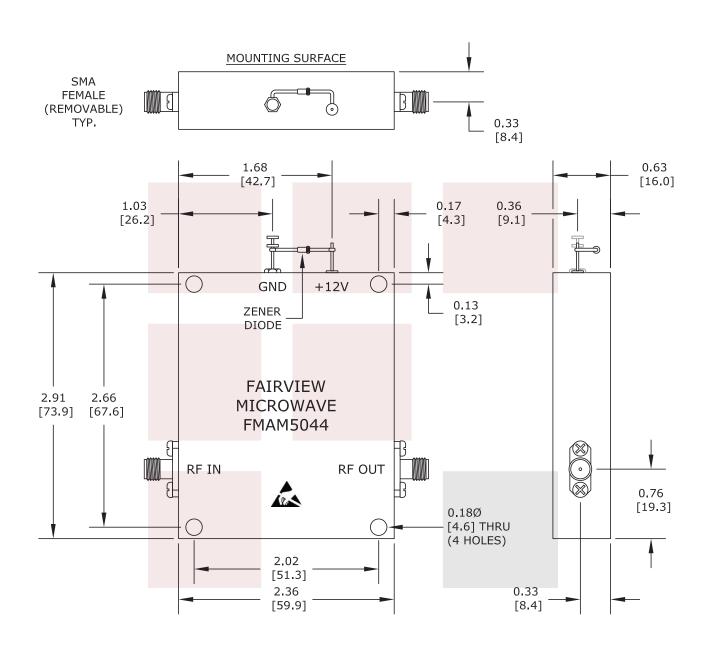
For additional information on this product, please click the following link: High Power Amplifier at 7 Watt P1dB Operating From 8.5 GHz to 10.5 GHz with 36 dB Gain, 47 dBm IP3 and SMA FMAM5044

URL: https://www.fairviewmicrowave.com/high-power-amplifier-7watt-36db-fmam5044-p.aspx

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

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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].						
High Power Amplifier at 7 Watt P1dB Operating From 8.5 GHz to 10.5 GHz with 36 dB Gain, 47 dBm IP3 and SMA	DWG NO FMAM5044			CAGE CODE 3FKR5			
	CAD FILE 032416	SHEET	SCALE	N/A	SIZE A	2233	