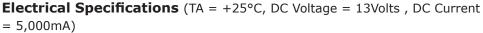




40 dB Gain High Power High Gain Amplifier at 10 Watt Psat Operating From 1 GHz to 2.5 GHz with 46 dBm IP3 and SMA

FMAM5036 is a 10 W high gain coaxial power amplifier operating in the 1.0 to 2.5 GHz frequency range. The amplifier offers 10 Watts typical saturated power and 40 dB min small signal gain with ±1.5 dB maximum gain flatness. The amplifier requires typically a +13V DC power supply. The connectorized SMA module is unconditionally stable and operates over the temperature range of 0°C and +50°C.



Description	Min	Тур	Max	Unit
Frequency Range	1		2.5	GHz
Small Signal Gain	40			dB
Gain Flatness			±1.5	dB
Input Power			+10	dBm
Psat		+40		dBm
P1dB	+39			dBm
Output 3rd Order Intercept	Point	+46		dBm
Harmonics		-20		dBc
Spurious		-60		dBc
Input VSWR			2:1	
Operating DC Voltage		13		Volts
Operating DC Current			5,000	mA
Operating Temperature Ran	ge 0		+50	°C



Features:

- 1.0 GHz to 2.5 GHz Frequency Range
- Psat 10 Watts typ
- · Small Signal Gain: 40 dB min
- Gain Flatness ±1.5 dB max
- IP3 46 dBm 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 6.8 in [172.72 mm] 2.7 in [68.58 mm] Width 1 in [25.4 mm] Height 2 lbs [907.18 g] Weight Input Connector SMA Female **Output Connector** SMA Female

Environmental Specifications

Temperature

0 to +50 deg C Operating Range

Humidity 95% Non-Condensing Normal Truck Transport Shock Normal Truck Transport Vibration Altitude 10000 feet Above Sea Level

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

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Compliance Certifications (visit www.FairviewMicrowave.com for current document)

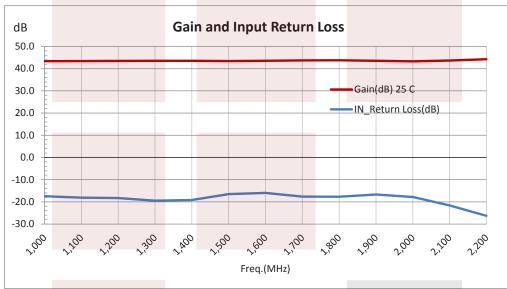
Plotted and Other Data

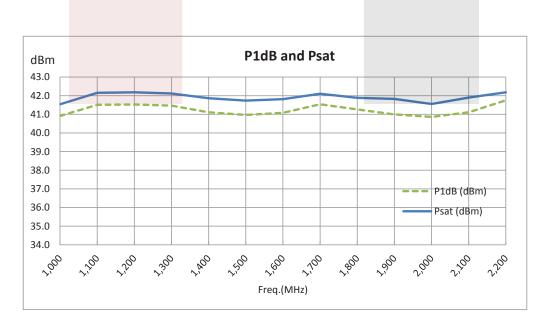
Notes:

- · 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.



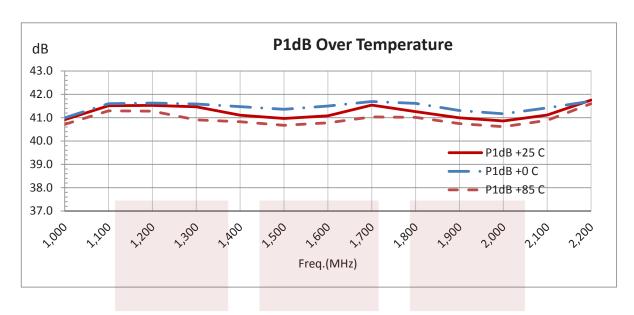


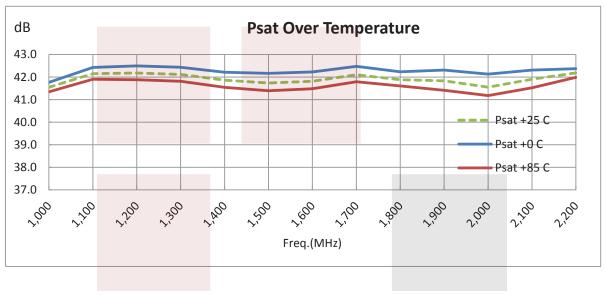




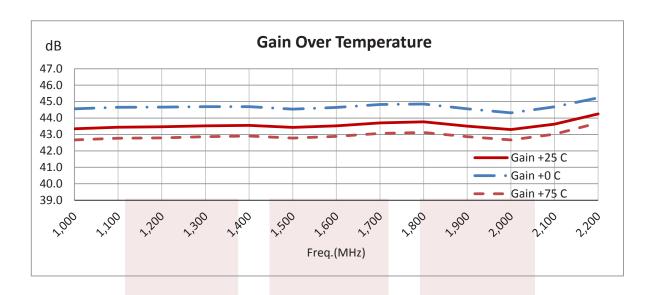


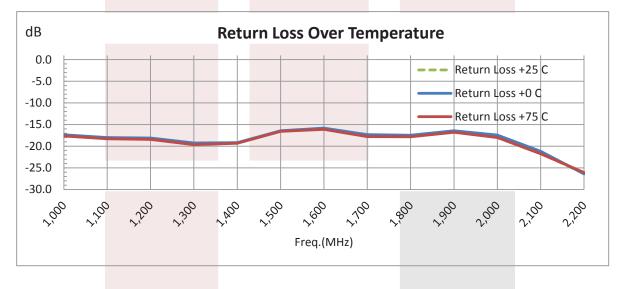












40 dB Gain High Power High Gain Amplifier at 10 Watt Psat Operating From 1 GHz to 2.5 GHz with 46 dBm IP3 and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

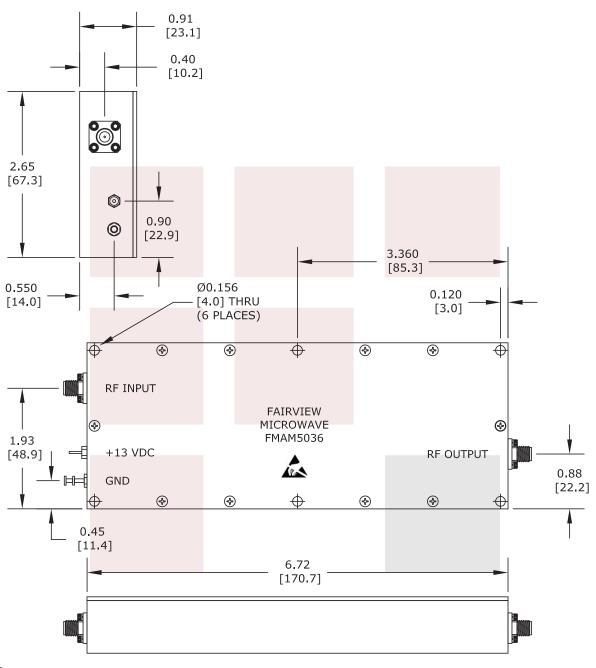
For additional information on this product, please click the following link: 40 dB Gain High Power High Gain Amplifier at 10 Watt Psat Operating From 1 GHz to 2.5 GHz with 46 dBm IP3 and SMA FMAM5036

URL: http://www.fairviewmicrowave.com/40db-high-power-high-gain-amplifier-10watt-fmam5036-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.







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].						
40 dB Gain High Power High Gain Amplifier at 10 Watt Psat Operating From 1 GHz to 2.5 GHz with 46 dBm IP3 and SMA	DWG NO FMAM5036			CAGE CODE 3FKR5			
	CAD FILE 032715	SHEET	SCALE I	N/A	SIZE A	2233	