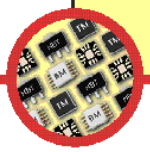
High Power Amplifier Module
0.95 – 1.25GHz, 10dB, 125 Watts

AM091251SF-1H
April 2010
Rev 2



DESCRIPTION

AMCOM's AM091251SF-1H is a Broadband Power Amplifier designed for high power microwave applications. It operates from 950MHz to 1250MHz and typically delivers 51dBm CW output power and 10dB gain (small signal). The amplifier module has an aluminum heat-sink attachment.

FEATURES

- Broadband design from 950 to 1250MHz
- High Gain and High Power, P_{SAT} = 51dBm, Gain = 10dB
- +31VDC Single Bias.

APPLICATIONS

- Radar Systems
- Base Station Amplifier
- Aerospace Systems

PERFORMANCE* (Vds = 31V, Idq = 1.5A, TA = 25°C)

Parameters	Minimum	Typical	Maximum
Frequency	950 – 1250MHz		
Gain (Small signal)	9dB	10dB	
Gain Ripple		± 1.0dB	± 2.0dB
Psat	50.5dBm	51 dBm	
Efficiency		30%	
Input VSWR		1.5:1	2:1
Output VSWR		3.5:1	6:1
Thermal Resistance (Device Junction to Housing)		0.68°C/W	

*Specifications subject to change without notice.

ABSOLUTE MAXIMUM RATING

Parameters	Symbol	Rating
Drain source voltage	Vds	32V
Drain source current	Ids	14A
Continuous dissipation at room temperature	Pt	250W
Channel temperature	Tch	200°C
Storage temperature	Tsto	-40°C to +85°C

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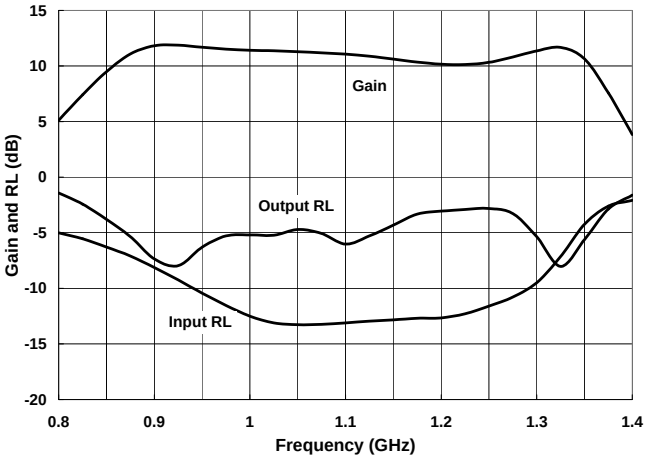
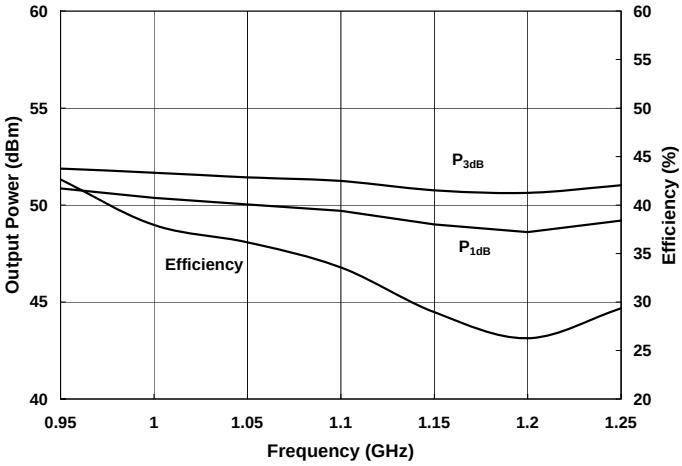
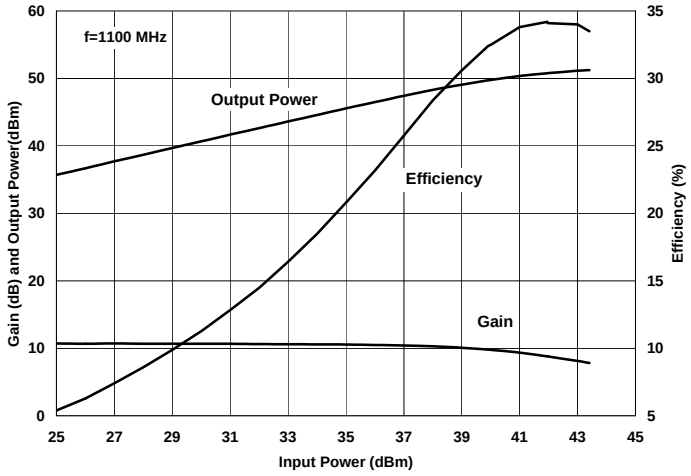
MEASURED DATA (31V, Idq=1.5A, TA=25°C)







PACKAGE OUTLINE