



DESCRIPTION

AMCOM's AM091253SF2H is a Broadband Power Amplifier designed for high power microwave applications. It operates from 950 MHz to 1250MHz and typically delivers 53dBm CW output power and 20dB gain (small signal). The amplifier module has an aluminum heat-sink attachment.

FEATURES

- Broadband design from 950 to 1250MHz
- High Gain and High Power, $P_{SAT} = 53\text{dBm}$, Gain = 20dB
- +31VDC Single Bias.

APPLICATIONS

- Radar Systems
- Base Station Amplifier
- Aerospace Systems

PERFORMANCE* ($V_{ds} = 31\text{V}$, $I_{dq} = 5\text{A}$, $T_A = 25^\circ\text{C}$)

Parameters	Minimum	Typical	Maximum
Frequency	950 – 1250MHz		
Gain (Small signal)	20dB	22dB	
Gain Ripple		$\pm 2.0\text{dB}$	$\pm 3.0\text{dB}$
Psat	52.5dBm	53dBm	
Efficiency		25%	
Input VSWR		1.5:1	2:1
Output VSWR		1.3:1	1.5:1
Thermal Resistance (device junction to housing)		0.25°C/W	

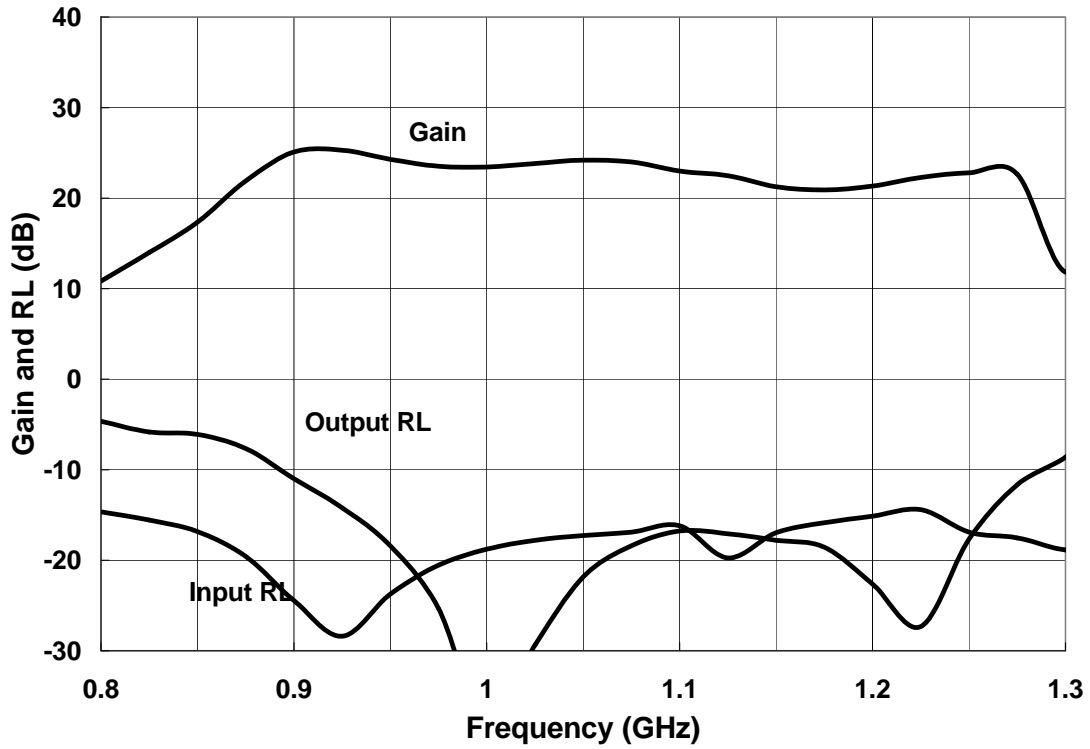
*Specifications subject to change without notice.

ABSOLUTE MAXIMUM RATING

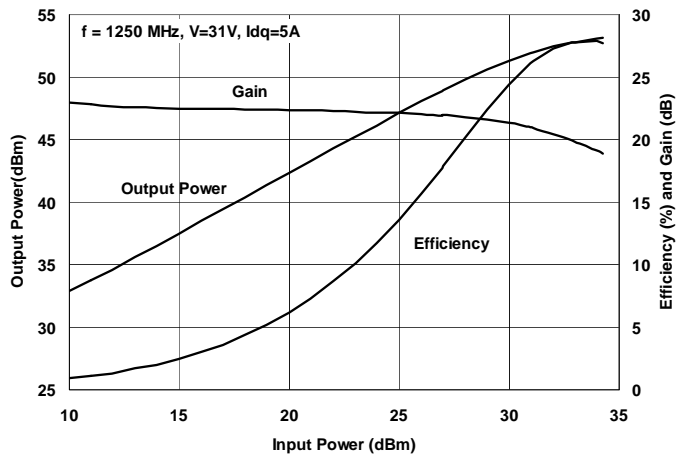
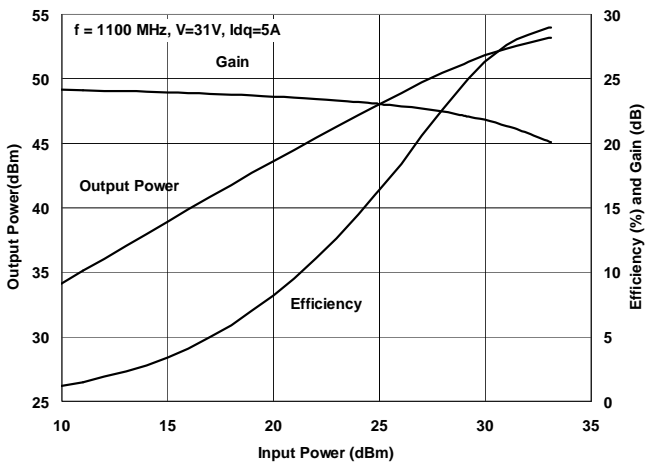
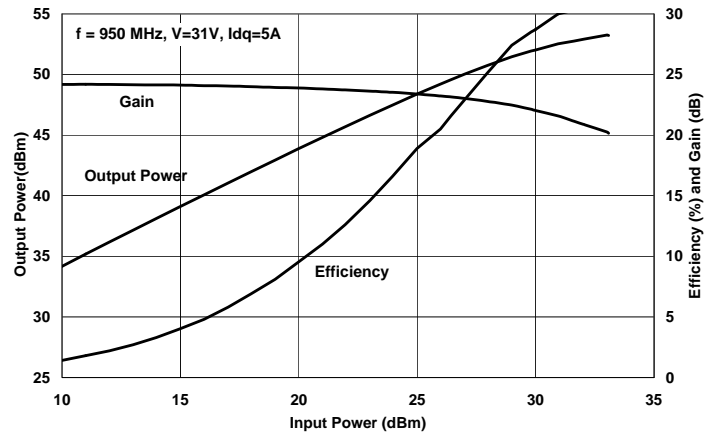
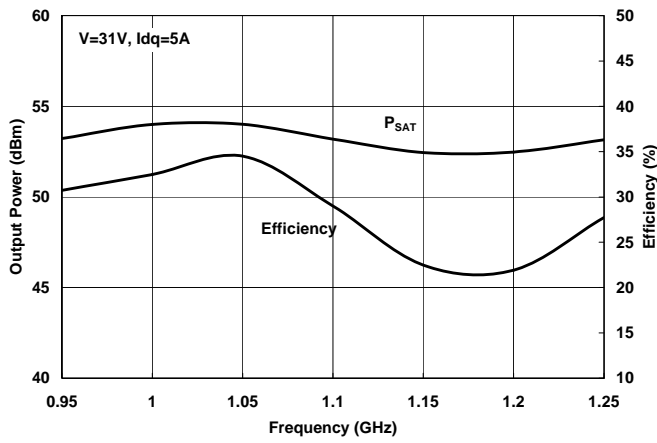
Parameters	Symbol	Rating
Drain source voltage	Vds	32V
Drain source current	Ids	30A
Continuous dissipation at room temperature	Pt	700W
Channel temperature	Tch	200°C
Storage temperature	Tsto	-40°C to +85°C

SMALL SIGNAL DATA

V=31V, Idq=5A



POWER DATA



PACKAGE OUTLINE

