

## DESCRIPTION

AMCOM's AM091247SF-2H is a Broadband Power Amplifier designed for high power microwave applications. It operates from 950MHz to 1250MHz and typically delivers 47dBm 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,  $P_{SAT} = 47\text{dBm}$ , Gain = 20dB
- Aluminum Chassis with heat-sink.

## APPLICATIONS

- Radar Systems
- Base Station Amplifier
- Aerospace Systems

## PERFORMANCE\* ( $V_{ds} = +31\text{V}(I_{dq}=500\text{mA}) / +7\text{V}(I_{ds}=2.0\text{A})$ , $V_{gs} = -5\text{V}$ , $T_A = 25^\circ\text{C}$ )

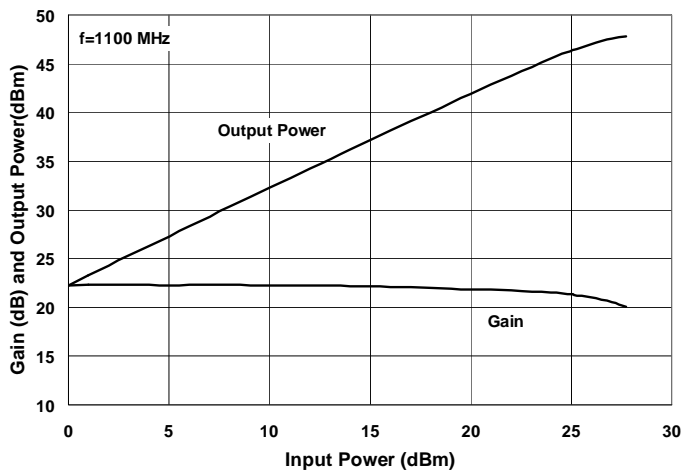
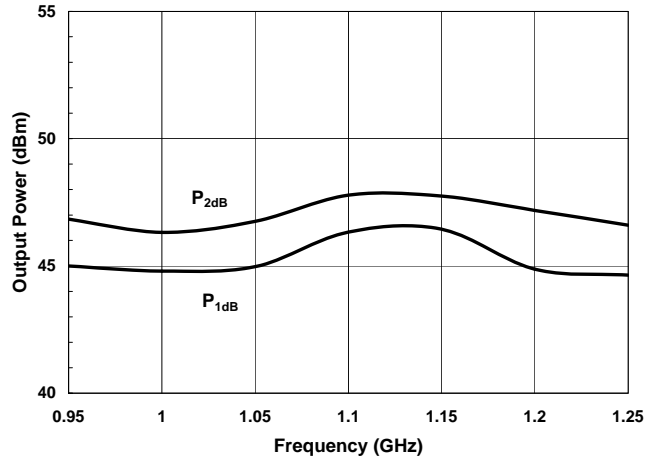
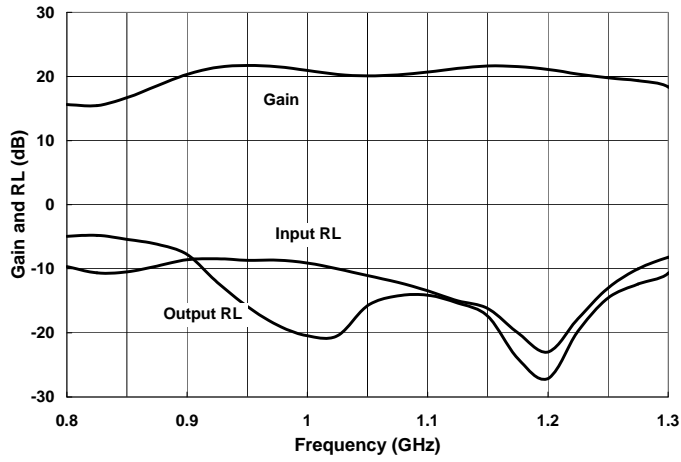
Parameters	Minimum	Typical	Maximum
Frequency	950 – 1250MHz		
Gain (Small signal)	18dB	20dB	
Gain Ripple		$\pm 1.5\text{dB}$	$\pm 2.5\text{dB}$
Psat	46dBm	47dBm	
Efficiency		25%	
Input VSWR		2:1	2.5:1
Output VSWR		1.5:1	2:1
Thermal Resistance (Device junction to housing)		1.07°C/W	

\*Specifications subject to change without notice.

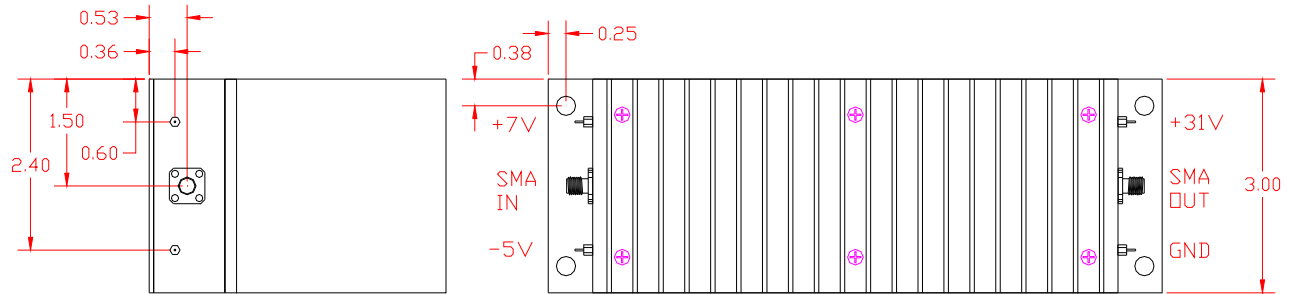
## ABSOLUTE MAXIMUM RATING

Parameters	Symbol	Rating
Drain source voltage	$V_{ds}(\text{stage1}) / V_{ds}(\text{stage 2})$	8V / 32V
Drain source current	$I_{ds}(\text{stage1}) / I_{ds}(\text{stage 2})$	3A / 6A
Continuous dissipation at room temperature	$P_t$ (both stages)	160W
Channel temperature	$T_{ch}$	200°C
Storage temperature	$T_{sto}$	-40°C to +85°C

MEASURED DATA (31V/500mA, 7V/2.0A, TA=25°C)



PACKAGE OUTLINE



Dimensions are in inches.

