



DESCRIPTION

AMCOM's AM091257SF-6H is a Broadband Power Amplifier rack-mountable sub-system. It operates from 950MHz to 1250 MHz and typically delivers 550 watts CW output power and a minimum Power Gain of 65dB. The unit features an internal Power supply with a 208VAC single-phase input. The LCD panel displays a full range of system parameters monitored by the system. The unit has an internal air cooling system.

FEATURES

- High Gain and High Power, $P_{SAT} = 57\text{dBm}$, Gain = 65dB
- Internal Power Supply 208VAC Single-phase input.
- LCD displays gain, input and output power, system temperature, and reflected power.

APPLICATIONS

- Radar Systems
- Base Station Amplifier
- Aerospace Applications



PERFORMANCE* (V=208VAC, 60Hz, $T_A = 25^\circ\text{C}$)

Parameters	Minimum	Typical	Maximum
Frequency	950 – 1250MHz		
Gain (Small signal)	65dB	72dB	
Gain Ripple		$\pm 2\text{dB}$	$\pm 3\text{dB}$
Psat	57dBm	57.4dBm	
Input VSWR		1.5:1	2:1
Output VSWR		1.5:1	2:1
Spurious signals			-60dBc
Noise power output			-86dBm/Hz
Harmonics			-30dBc
Full-power load VSWR 0.5dBm backoff			1.3:1 2.0:1

*Specifications subject to change without notice.

SYSTEM PARAMETERS

Parameter	Specifications
Primary power	208VAC ± 10%, 60 Hz single phase
Internal Attenuation Level Set	0 – 60dB in 0.5dB steps
Protection routines (Shutdown)	1- Load VSWR 2- Thermal overload 3- Input overdrive 4- Over/under voltage 5- Over current
Connectors	RF Input: N-type (Front Panel) RF output: N-type (Front Panel)
Monitoring	1- Relative forward/ reflected power 2- Supply current & voltage 3- Temperature
LCD Display	1- Frequency set 2- Attenuation level set 3- Monitor RF Input/Output/Reflected Power, RF Gain 4- Monitor Temperature/Voltage/Current of internal modules
Indicators	1- Power on 2- Thermal overload 3- Fault sense

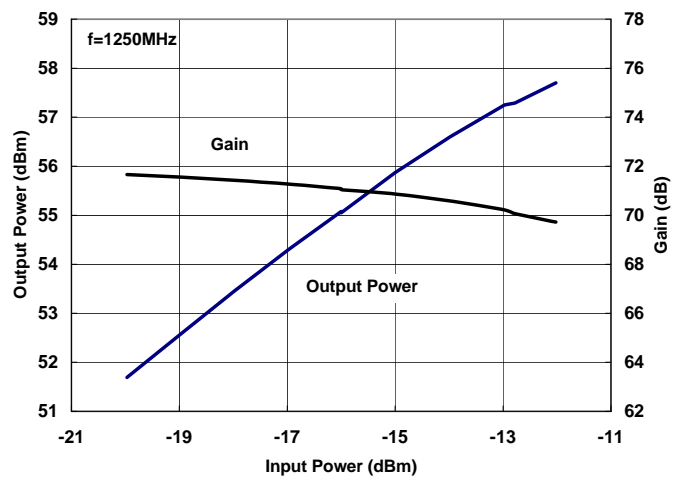
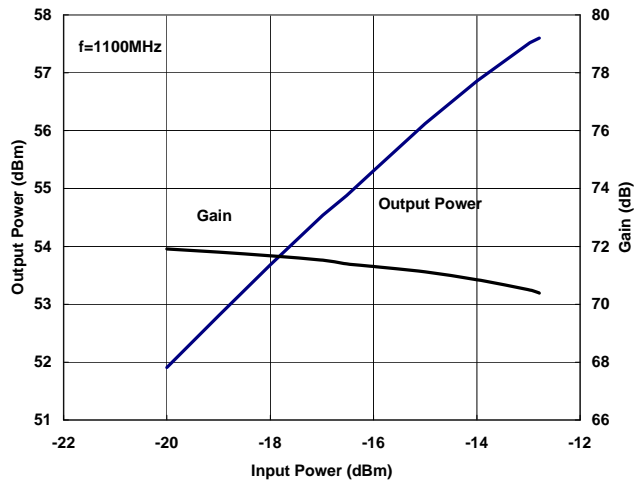
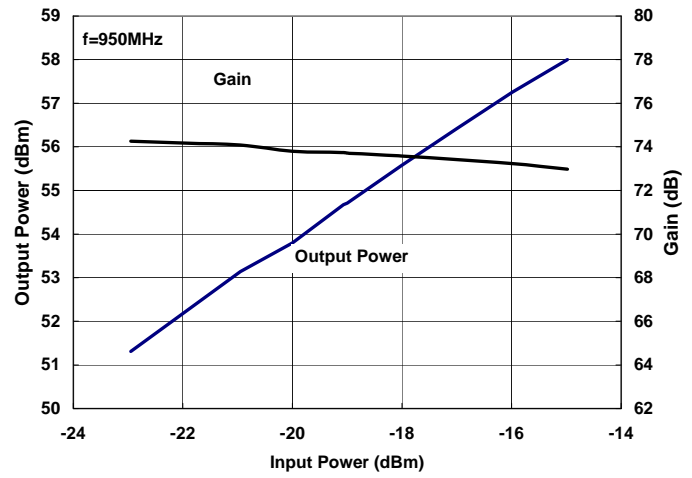
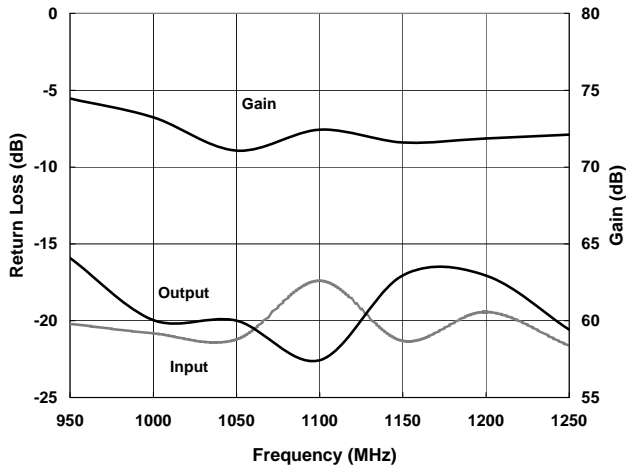
ENVIRONMENTAL & STRUCTURAL SPECIFICATIONS

Parameter	Specifications
1-Temperature:	Operating: 0°C to +50°C Non-operating: -40°C to +85°C
2- Size	24" rack mount
3- Power supply Size	10" H x 24" W x 26" D
4- Amplifier size	20" H x 24" W x 26" D
5- Cooling	Air cooling

ABSOLUTE MAXIMUM RATING

Parameter	Symbol	Rating
AC Voltage Input	VAC	176-264V (single phase)
Operating temperature	T _{op}	-20°C to +50°C
Storage temperature	T _{sto}	-40°C to +85°C

MEASURED DATA (208VAC, 60Hz, T_A=25°C)



PACKAGE OUTLINE

