

AMP1067 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Class AB linear LDMOS design
- Instantaneous wide bandwidth
- Suitable for all modulations standards
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS - 50 Ohm Impedance

Parameter	Specification	Notes
Operating Frequency Range	0.25 - 1000 MHz	
Output Power @ Psat	10 Watt Min	CW
Power Gain	40 dB Min	
Power Gain Flatness	4 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	30dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	>20dBc Typ	At rated output
Spurious	>60dBc	Non harmonics
Operating Voltage	28 - 30 VDC	
Current Consumption	2 Amp	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	$\infty : 1$	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	Full performance
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

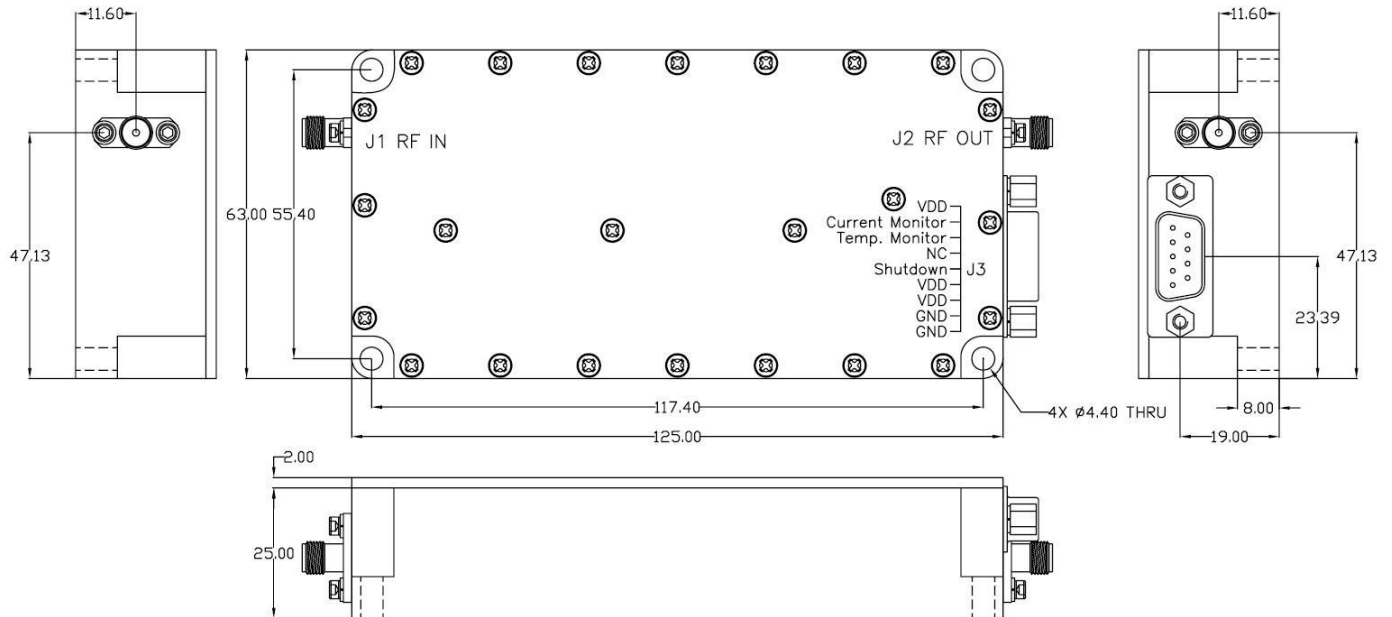
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	125 X 63 X 27 mm	Excluding connectors
Weight	300 gr.	Typical weight
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	FWD	N/A
2	VVA	Option-103 - Analog Gain Control
3	CURRENT SENSOR	$I_D @ 50\text{mV}/100\text{mA Typ}$
4	TEMP SENSOR	$V_T @ 10\text{mV}/^\circ\text{C} + 500\text{mV Typ}$
5	SHUTDOWN	TTL
6, 7	VDD	28VDC
8, 9	GND	Ground

OUTLINE DRAWING



Note: See Table for pin 1-4 assignments