



# AMP1068 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

Class A GaAsFET design  
 Instantaneous wide Bandwidth  
 Built-in protection circuits  
 High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Power Output Past	10 Watt Min	CW
Small Signal Gain	40 dB Min	
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	10 dB Min	
Harmonics	>20 dBc	At rated Pout
Noise Figure	8.0 dB Max	
Spurious	>60 dBc	Non Harmonics
Operating Voltage	12 VDC $\pm$ 0.5 V	
Current Consumption	11 Amp Max	At rated Pout
Max Input Power	+8 dBm Max	Without damage
Load VSWR Protection	$\infty$ : 1	

## ENVIRONMENTAL CHARACTERISTICS

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

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	100 X 100 X 27mm	Excluding Connectors
Weight	TBD	
RF Connectors In/Out	SMA female	Cover Flange
DC Power / Interface Connector	9-Pin D Sub	
Cooling	External Heatsink	Forced air required

## D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1		N/A
2		N/A
3	Current Sensor	$I_D$ @20mV/100mA Typ
4	Temp Sensor	$V_T$ @10mV/°C + 500mV Typ
5	Shutdown	TTL
6,7	VDD	12VDC
8,9	GND	Ground

**OUTLINE DRAWING**

