



# AMP1081 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

Class AB GaAs design  
 Instantaneous wide Bandwidth  
 Built-in protection circuits  
 High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 18.0 GHz	
Power Output Psat	1 Watt Min	CW
Power Output P1dB GCP	0.5 Watt Min	CW
Small Signal Gain	30 dB Min	
Power Gain Flatness	4 dB p-p Max	
Input Return Loss	>10 dB Typ	
Harmonics	>20 dBc	At rated Pout
Noise Figure	6.0 dB Max	
Spurious	>60 dBc	Non Harmonics
Operating Voltage	15 VDC $\pm$ 0.2 V	
Current Consumption	0.6 Amp Max	At rated Pout
Max Input Power	+8 dBm Max	Without damage
Load VSWR	5 : 1 Max	

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +70 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	70 X 60 X 15 mm	Excluding Connectors
Weight	TBD	
RF Connectors In/Out	SMA female	Cover Flange
DC Power	Feed Thru	
Cooling	External Heatsink	Forced air required

## PIN ASSIGNMENT

Pin	Function	Description
1	DC Voltage	+15VDC
2	GND	GND

**OUTLINE DRAWING**

