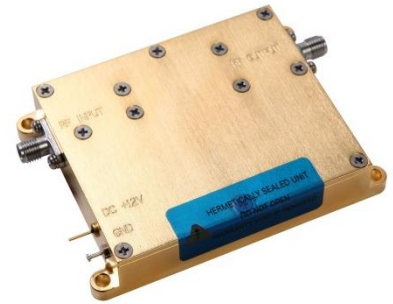


AMP1081 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1.0-18.0GHz	
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	12 VDC $\pm$ 0.2V	
Current Consumption	0.6 Amp Max	At rated Pout
Max Input Power	+8dBm 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 15mm	Excluding Connectors
Weight	300g	
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	+12VDC
2	GND	GND

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OUTLINE DRAWING

