

AMP1074 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 20.0 GHz	
Power Output Past	10 Watt Min	
Small Signal Gain	40 dB Min	
Power Gain Flatness	5.0 dB p-p Max	
Input Return Loss	10 dB Min	
Harmonics	>20 dBc Typ	In-band >13~15dBc Typ
Non Harmonics Spurious	>60 dBc	
Operating Voltage	32 VDC Nom	
Current Consumption	4.5 Amp Max	At rated Pout
Max Input Power	+3 dBm Max	Without damage
Load VSWR Protection	3 : 1	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +65 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	170 x 140 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	$I_D @ 50mV/100mA$ Typ
4	Temp Sensor	$V_T @ 10mV/^{\circ}C + 500mV$ Typ
5	Shutdown	TTL
6,7	VDD	32VDC
8,9	GND	Ground

OUTLINE DRAWING

