

AMP3094 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	26.0 - 31.0 GHz	
Power Output Psat	5 Watt Min	
Power Output @ P1dB G.C.P.	4 Watt Min	
Power Gain	37 dB Min	
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
Noise Figure	12 dB Max	
Harmonics	>20 dBc	At rated Pout
Non Harmonics Spurious	>60 dBc Min	
Operating Voltage	9 VDC Nom	
Current Consumption	10 Amp Typ	At rated Pout
Max Input Power	+3 dBm	Without damage
Load VSWR Protection	5 : 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	100 X 100 X 27 mm	Excluding Connectors
Weight	600 gr.	
RF Connectors In/Out	SMA K Type female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	N/C	Reserved
2	N/C	Reserved
3	CURRENT SENSOR	$I_D @ 20mV/100mA$ Typ
4	TEMP SENSOR	$V_T @ 10mV/^{\circ}C + 500mV$ Typ
5	SHUTDOWN	TTL
6,7	VDD	9VDC
8,9	GND	Ground

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OUTLINE DRAWING

