

AMP1090 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB Chip & Wire technology
Instantaneous wide Bandwidth
Suitable for all modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	3.0 - 8.0 GHz	
Power Output Past	8 Watt Min	CW
Small Signal Gain	40 dB Min	
Power Gain Flatness	3.0 dB p-p Max	
Input Return Loss	10 dB Min	50 Ohm reference
Harmonics	>20 dBc Typ	At rated Pout
Noise Figure	10 dB Max	
Spurious	>60 dBc	Non Harmonics
Operating Voltage	30 VDC Nom	
Current Consumption	2.5 Amp Max	At rated Pout
Max Input Power	+8 dBm Max	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 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	30VDC
8,9	GND	Ground

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OUTLINE DRAWING

