



AMP3008P SOLID STATE HIGH POWER AMPLIFIER

PRELIMINARY

FEATURES

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

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	9.75 - 10.25 GHz	
Pulse Power	50 Watt Min	Peak Power
Power Gain	47 dB Min	
Pulse Width	20 mS Max	
Pulse Duty Cycle	10% Max	
Pulse Rise Time	500 nS Max	
Power Gain Flatness	2.0dB p-p Max	
Input Return Loss	>10 dB	Relative to 50 Ohm
Harmonics	>50 dBc Typ	At rated Pout
Non Harmonics Spurious	>60 dBc	
Operating Voltage	27 - 29 VDC	
Current Consumption	6 Amp Max	At 10 % DS
Load VSWR Protection	$\infty : 1$	Requires external Isolator

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	200 X 125 X 27 mm	Nominal Dimensions
Weight	TBD	
RF Connectors In/Out	High Freq. SMA female	
DC Power / Interface Connector	9-Pin Dsub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	FWD	N/C
2	REV	N/C
3	CURRENT SENSOR	$I_p @ 50mV/100mA$ Typ
4	TEMP SENSOR	$V_T @ 10mV/^{\circ}C + 500mV$ Typ
5	SHUTDOWN	TTL
6, 7	VDD	28VDC
8, 9	GND	Ground

PRELIMINARY

OUTLINE DRAWING

