

AMP2084 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear GaN design
 Instantaneous ultra-wide bandwidth
 Designed for broadband EMI/RFI, Lab, Comm. and EW applications
 Suitable for all single channel modulation standards
 Rack mounted system
 Built-in protection circuits
 High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Power Output @ Psat	80 Watt Min / 100 Watt Typ	CW
Power Gain	50 dB Min	
Power Gain Flatness	4 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	
Input / Output Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	39dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-20 dBc Typ	At rated output
Spurious	60 dBc Min	Non-harmonic
Operating Voltage	180 - 240 VAC	
Power Consumption	1600 Watt Max	At rated output
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<1 Minute at rated Pout
Sample Port Coupling	-30 to -40 dB	Optional - SMA-F

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing
Shock & Vibration	MIL-STD-810E	Designed to meet

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133.3 x 560 mm	5U - Excluding connectors
Weight	30 Kg. Max	
RF Connectors In / Out / Sample Port	Hi Freq. SMA F / WG / SMA-F	Rear or Front panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control GAIN, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	

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OUTLINE DRAWING

