



# AMP2090B SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

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



## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	800 - 4200 MHz	
Power Output	500 Watt Min	CW
Power Gain	57 dB Min	
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	45dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	2400 Watt Max	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	10 : 1 Max	<1 minute at rated Pout

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensation

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 266 x 600 mm	6U without handles
Weight	40 Kg. Typ	
RF Connectors In / Out	Type-N Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
<b>OPTION:</b> Digital LCD Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, Optional GPIB Interface	Remote Bluetooth application
Cooling	Built in Fan Cooling	Variable speed

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## OUTLINE DRAWING

