



AMP2091A SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	0.8 - 6.0 GHz	
Power Output @ Psat	60 Watt Min	100 Watt Typ
Power Output @ P1dB	50 Watt Min	80 Watt Typ
Power Gain	47 dB Min	
Power Gain Flatness	±2 dB Max	
Input / Return Loss	-10 dB Max	Relative to 50 Ohm
Third Order Intercept Point IP3	+57 dBm Typ	
Harmonics @ 50 Watt	2 nd	2 nd -20 dBc Typ @ 0.8-1.0GHz
	3 rd	<-30 dBc Typ
Spurious	-70 dBc Max	Non-harmonic
Noise figure	8 dB Max	6 dB Nom
Operating Voltage	100 - 240 VAC	+/- 10%, 47-63 Hz
Power Consumption	500 Watt Max	Pout = 50 Watt
Input Power Protection	+15 dBm Max	<10 Sec without damage
Load VSWR Protection	∞ : 1 Unconditionally stable	Auto shutdown

ENVIRONMENTAL CHARACTERISTICS

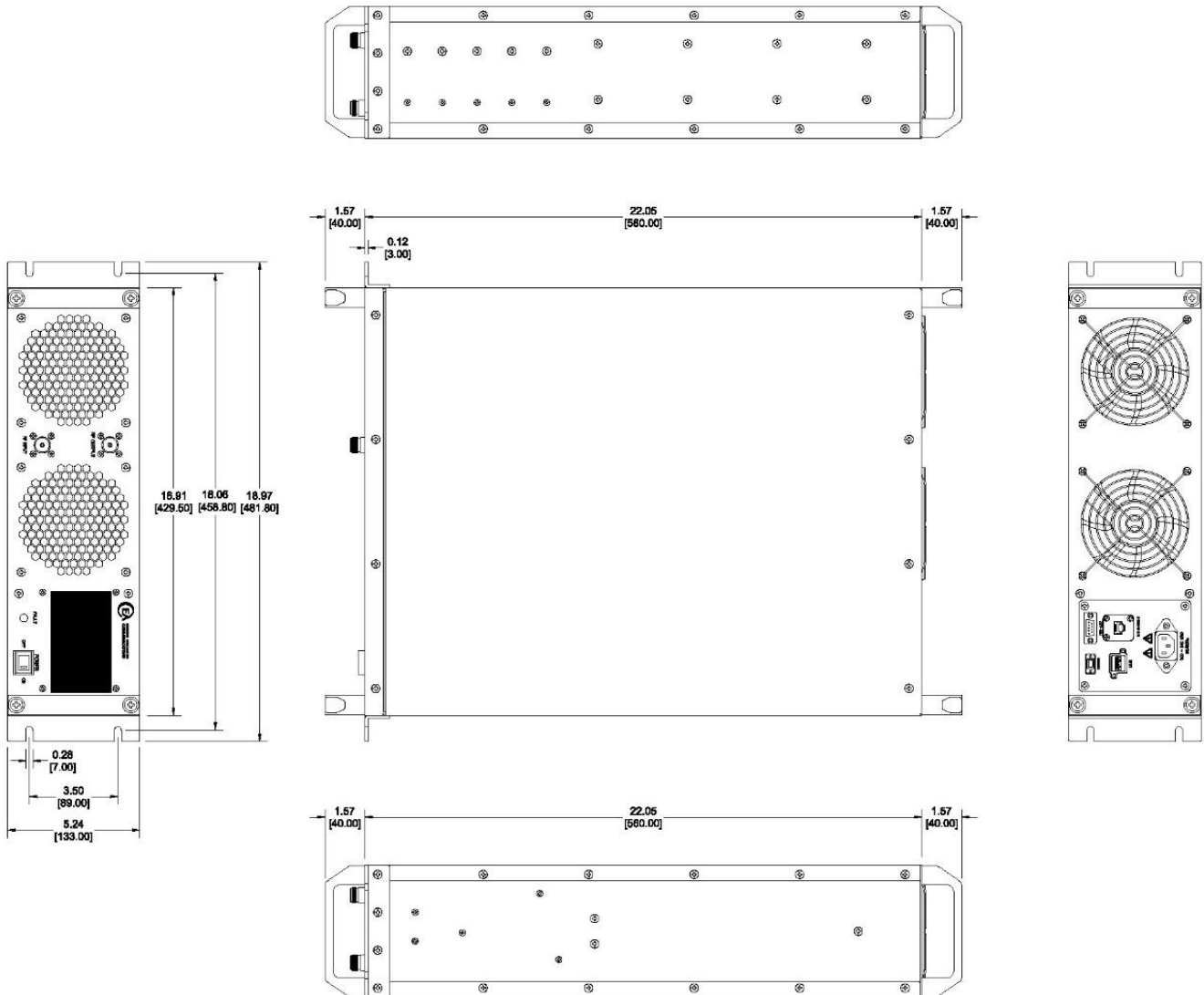
Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U without handles
Weight	20 kg.	
RF Connectors Input / Output	Type-N Female	Front or Rear available
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
STANDARD: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Flexible SW remote interface

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OUTLINE DRAWING



TYPICAL PERFORMANCE PLOTS

