



AMP2085B SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification			Notes
Operating Frequency Range	2.0 - 6.0 GHz			
Power Output@ Psat	250 Watt Typ			CW
Power Output @ P1dB	200 Watt Min			
Power Gain	53 dB Min			Pin=0dBm for normal operation
Power Gain Flatness	5 dB p-p Max			Constant input power
Pulse Characteristics	Width	Duty	PRF	
	100 nS			
Input / Output Return Loss	-10 dB Max			Relative to 50 Ohm
2-Tone Intermodulation (IMD)	<-30 dBc Typ			43dBm/Tone, Δ = 1MHz
Noise Figure	12 dB Typ			
Harmonics	<-20 dBc Typ			At rated output
Spurious	-60 dBc Max			Non-harmonic
Operating Voltage	180 - 240 VAC			
Power Consumption	2500 Watt Max			At rated output
Input Power Protection	+8 dBm Max			<10 Sec without damage
Load VSWR Protection	5 : 1 Max			<1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

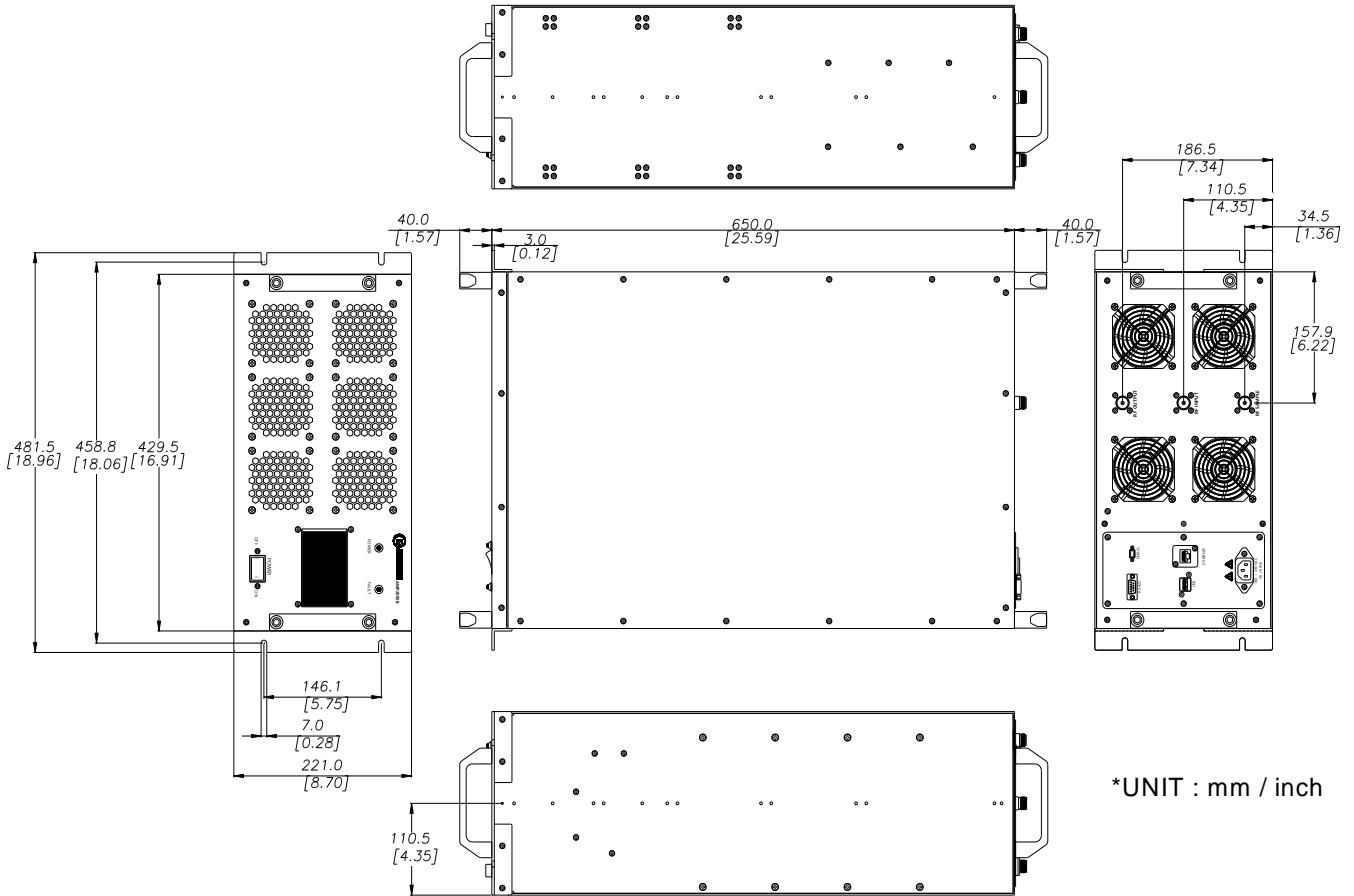
Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 221 x 650 mm	5U - Excluding handles
Weight	42 Kg. Max	
RF Connectors In/Out	Type-N Female	Front or rear panel
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	Optional Remote Bluetooth application

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OUTLINE DRAWING



*UNIT : mm / inch