AMP2083B-LC
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications
Small form factor, rack mounted system
Class A/AB Linear design
High Power Advanced technology devices
Instantaneous ultra-wide bandwidth
Built-in protection circuits, with extensive monitoring
Local LCD & remote flexible interfaces
High efficiency, with unprecedented reliability and ruggedness

ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	4.0 - 8.0 GHz	
Power Output@ Psat	300 Watt Min	CW or Pulse
Power Output @ P1dB	150 Watt Typ	
Power Gain	55 dB Min	0dBm or less for rated Pout
Power Gain Flatness	4 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	Local or remote
Input / Output Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	<-30 dBc Typ	45dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	180 - 240 VAC	47 - 63 Hz
Power Consumption	3500 Watt Max	At rated output
Input Power Protection	+10 dBm Max[1]	
Load VSWR Protection	4 : 1: Max[2]	Foldback @ preset limit
Sample Port Coupling (optional)	-50 dB	N-Female

1 Units with optional digital monitor and control, for basic units <10 Sec without damage
2 Units with optional digital monitor and control, for basic units <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	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[3]	

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 266 x 680 mm	6U - Excluding handles
Weight	45 Kg. Max	
RF Conn. In / Out / Sample	N-Female	Front or rear panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	IEC 60320-C14	Or equivalent
Cooling: Built in Quiet-Cool	Close circuit Air-liquid cooling	60-65 dBa Typ
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Safety Interlock (BNC Female on rear)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Safety Interlock, Open=STBY/Short=RFON	

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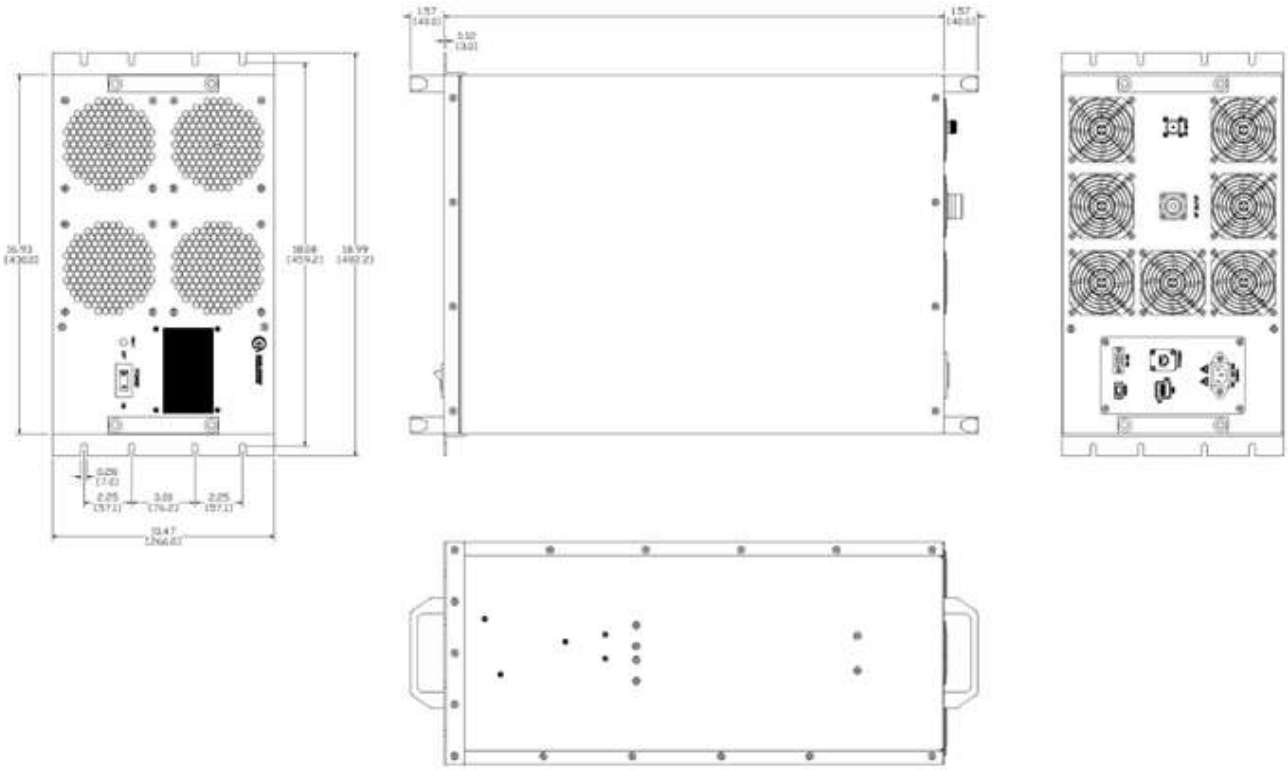
OUTLINE DRAWING

SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER