



AMP2080B-1 SOLID STATE HIGH POWER AMPLIFIER



FEATURES

- Small form factor, rack mounted system
- Class A/AB Linear design
- High Power Advanced technology devices
- Instantaneous ultra-wide bandwidth
- Designed for EMI/RFI, lab, CW/Pulse and all communication applications
- 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	10 kHz - 100 MHz	
Power Output @ Psat	150 Watt Min	CW or Pulse
Power Output @ P1dB	100 Watt Typ	
Power Gain	52 dB Min	0dBm or less for rated Pout
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Gain Adjustment Range	>25 dB Typ	
Input Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	<-30 dBc Typ	42dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ	At rated output power
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	47/63 Hz
Power Consumption	500 Watt Max	At rated output
Input Power Protection	+10 dBm Max ¹	
Load VSWR Protection	4 : 1: Max ²	Foldback @ preset limit
Sample Port (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 133 x 560 mm	3U- Excluding handles
Weight	15 Kg. Typ	
RF Connectors In / Out / Sample	Type-N Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Rear panel
Safety Interlock Connector	Submin-D-Sub (Optional BNC female)	Open=STBY/Short=RFON
Cooling	Built in Fan Cooling, Variable speed	65 dBA Typ
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

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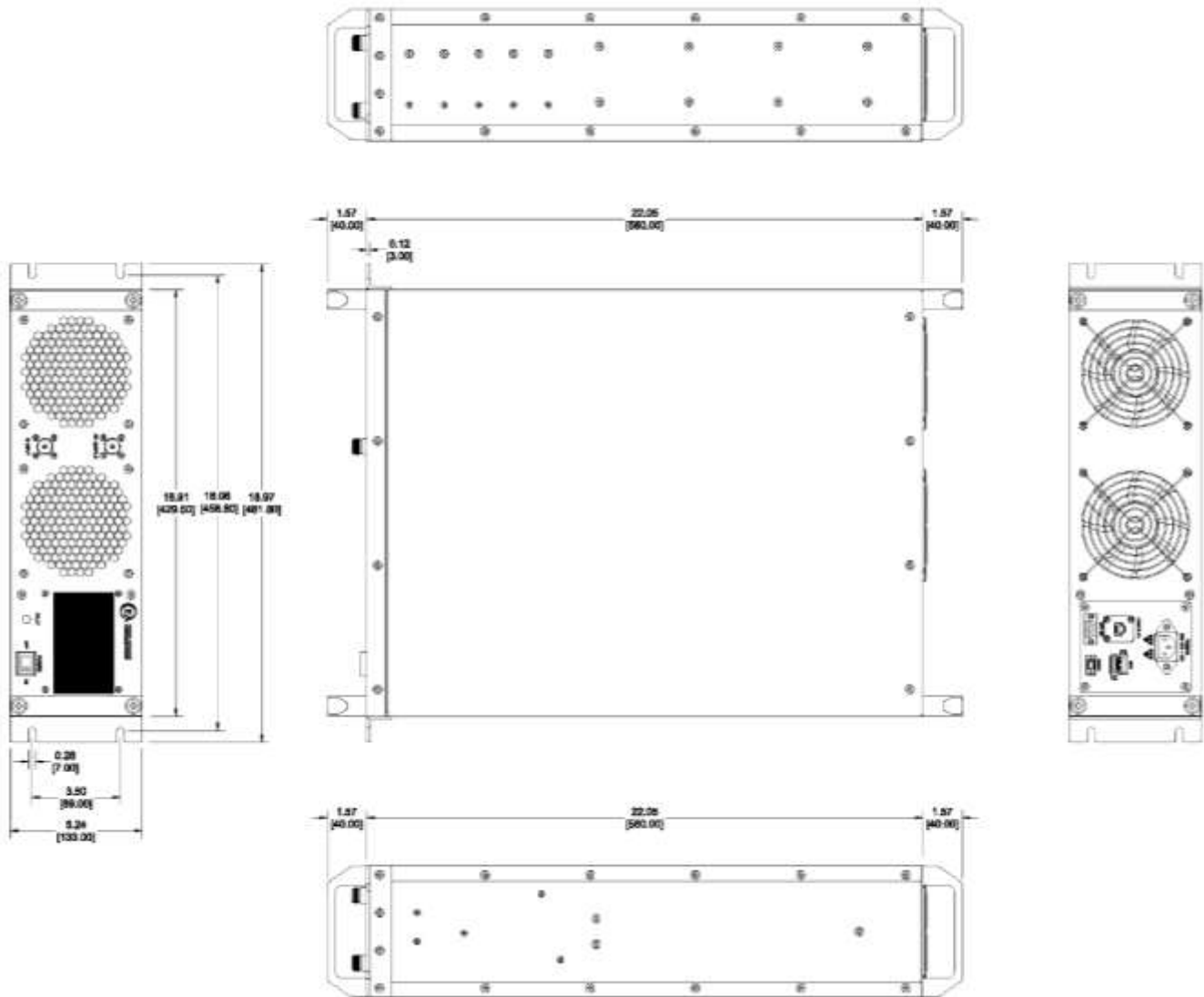
AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option NRF: No RF Power Monitoring ⁴	No Forward/Reflected Power Monitoring	No internal RF coupler

⁴ Front panel display for local & remote control, no forward, reflected, VSWR monitoring or protection. (see note 2 above- not applicable with this option)

OUTLINE DRAWING

SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER



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OUTLINE DRAWING
Basic unit, no controller

