AMP2107DB-5
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications
Small form factor, rack mounted Dual-Band 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
Band	**Band A**	**Band B**	**Band C**	Band switching @ 15 mS Max
Operating Frequency Range by Band	80M - 1GHz	1 - 6 GHz	6 - 18 GHz	
Power Output CW Band A / Band B / Band C	20 Watt Min			CW or Pulse
Power Output @ P1dB	15 Watt Min			
Power Gain	43 dB Min			0dBm or less for Rated Power
Power Gain Flatness	5.0 dB p-p Max			Constant input power
Gain Adjustment Range	>20 dB Typ			Local or remote capable
Input Return Loss	-10 dB Max			
2-Tone Intermodulation (IMD) Band A / Band B	-30 dBc Typ			33dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ			At rated Pout
Spurious	-60 dBc Max			Non-harmonics
Operating Voltage	100 - 240 VAC			47-63 Hz
Power Consumption (Max per Band)	500 Watt	600 Watt	900 Watt	At rated Pout
Input Power Protection	+5 dBm Max[1]			
Load VSWR Protection	4 : 1: Max[2]			Foldback @ preset limit
Sample Port (optional)	-40 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	17 kg.	
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 Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control (DMC[4]) FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Optional Safety Interlock (INT)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Open=STBY/Short=RFON	 IEEE rear panel BNC-F rear panel

4 Option DMC, LCD controller option may reduce output power by up to -0.5dB

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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-40dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Included CPM: Calibrated Power Monitoring (With purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	14-points standard[5]

5 Consult with factory if additional points would be required.
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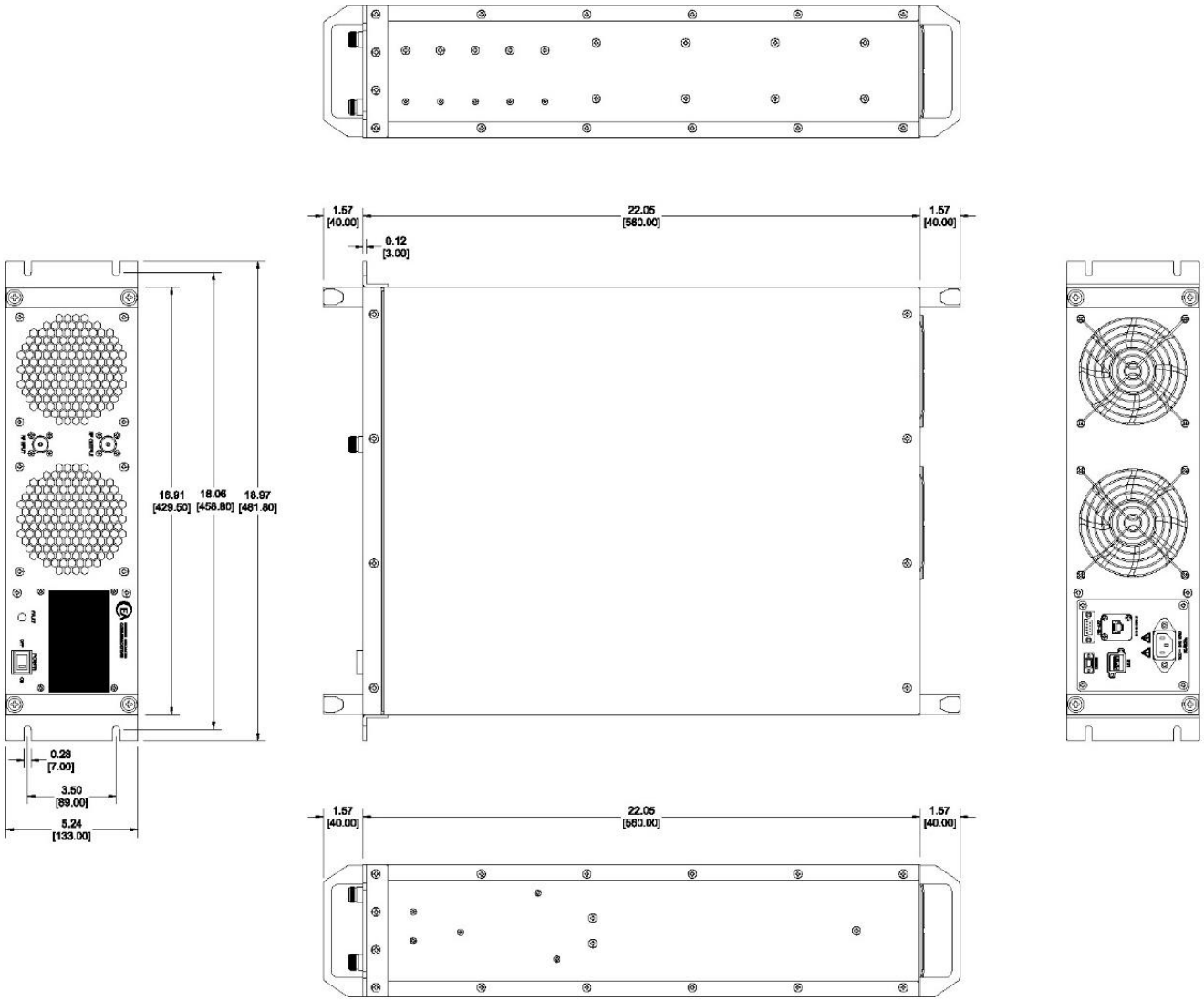
OUTLINE DRAWING

SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER