

AMP20220

SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all EW 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
 LEGACY PN: AMP2034-1



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 6.0 GHz	
Power Output @ Psat	10 Watt Min / 15 Watt Typ	CW
Power Output @ PldB	5 Watt Min / 7Watt Typ	
Power Gain	40 dB Min	Less than 0dBm for rated Pout
Power Gain Flatness	3 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	Local or remote
Input Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	30dBm/Tone, Δ = 1MHz
Harmonics	-25 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	50/60 Hz
Power Consumption	150 Watt Max	At rated output
Input Power Protection	+3 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

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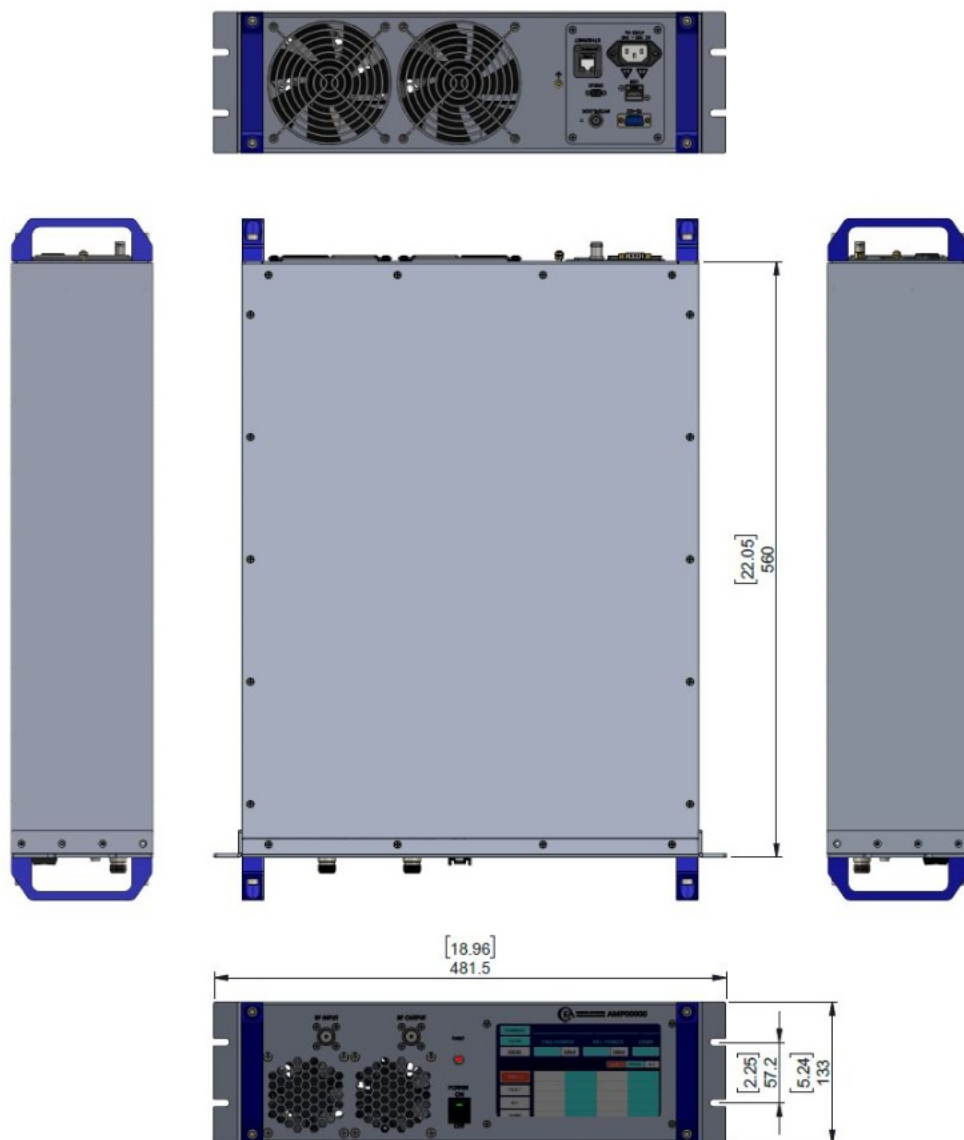
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D (with Option DMC)	430 x 133.3 x 560 mm	3U, excluding handles
Dimensions W x H x D (Benchtop)	210 x 100 x 300 mm	Excluding brackets
	242 x 110 x 384 mm	Including brackets
Weight	(2U/9 kg.) (3U/12kg.)	
RF Connectors In/Out/Sample	SMA 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 0.5 dB typical. Please consult the factory for more information.

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OUTLINE DRAWING
3U-SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER



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OUTLINE DRAWING
2U, Benchtop (No display with DMC)

