

AMP20219 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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Designed for EMI/RFI, lab, CW/Pulse and all communication applications.

Small form factor, Bench Top system

Class A/AB linear advanced technology design

Suitable for all single channel modulation standards

Instantaneous ultra-broad bandwidth

Built-in protection circuits

Universal voltage AC power supply

High efficiency, with unprecedented reliability and ruggedness

LEGACY PN: AMP2146



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	6 - 18 GHz	
Power Output @ Psat	5 Watt Min	CW or Pulse
Power Output @ PldB	3 Watt Typ	
Power Gain	37 dB Min	0dBm or less for Rated Power
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	27dBm/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	150 Watt Max	At rated output
Input Power Protection	+5 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1: Max	<1 min @ 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	

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 242 x 110 x 384 mm	Excluding brackets Including brackets
Weight	(2U/9 kg.) (3U/12kg.)	
RF Connectors In/Out	Type-SMA Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control (DMC) 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

Option DMC - LCD Controller option may reduce output power by 0.5 dB typical. Please consult the factory for more information.

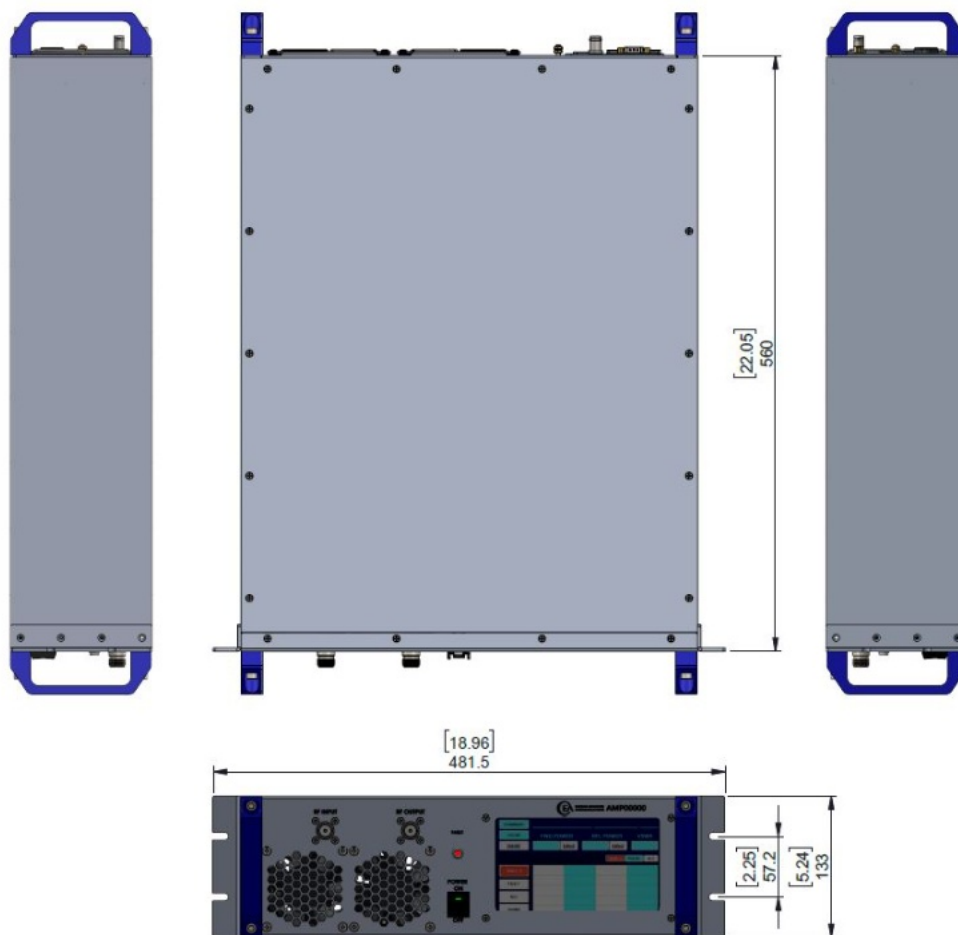
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-40dB, Type N-Female	Front or rear panel
Option RRS: Reflected 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 ± 0.2 dB accuracy	11-points standard*

* Consult with factory if additional points would be required.

OUTLINE DRAWING 3U-SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER



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

