

LNA80007

SOLID STATE LOW NOISE AMPLIFIER SYSTEM

FEATURES

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

Small form-factor system

Class A 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



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	9.37-10 GHz	
Power Output @ Psat	25 dBm Min	CW
Linear Gain	33 dB Min	
Power Gain Flatness	1 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	
Noise Figure	4 dB Max	
Harmonics	-35 dBc Typ	At rated output power
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	47-63 Hz
Power Consumption	100 Watt Max	At rated output
Input Power Protection	+5 dBm Max	
Load VSWR Protection	∞:1	

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	

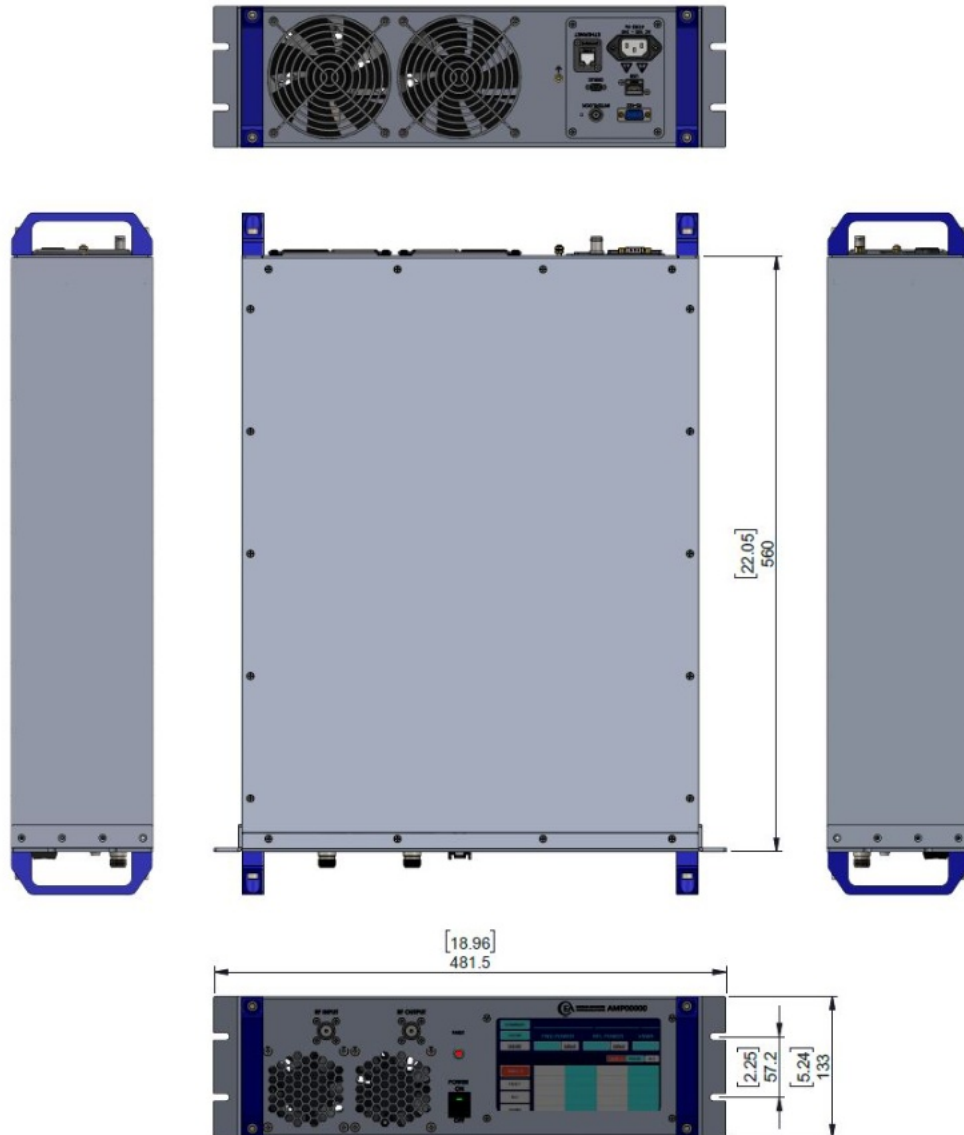
MECHANICAL SPECIFICATIONS

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	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) 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

NOTE: 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



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

