

LNA80008

SOLID STATE LOW NOISE AMPLIFIER SYSTEM

FEATURES

Linear GaAsFET low noise hybrid design
 Suitable for all single channel composite modulation standards
 Designed for K-Band Radios, Radar, Telecom, Satellite, Military, Space, MW links
 Also suitable for general lab, commercial & Mil applications
 Built-in regulator, sequencing, and protection circuits
 High efficiency, reliability, and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	18-26.5 GHz	
Power Output @ PldB	30 dBm Min	
Linear Gain	36 dB Min	
Power Gain Flatness	±2.2 dB Typ	Constant input power
Input / Output Return Loss	-10 dB Typ	
Noise Figure	10 dB Max	
Harmonics	-20 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	Without damage
Load VSWR Protection	∞:1	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +70 °C	
Relative Humidity	up to 95 %	Non Condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport	

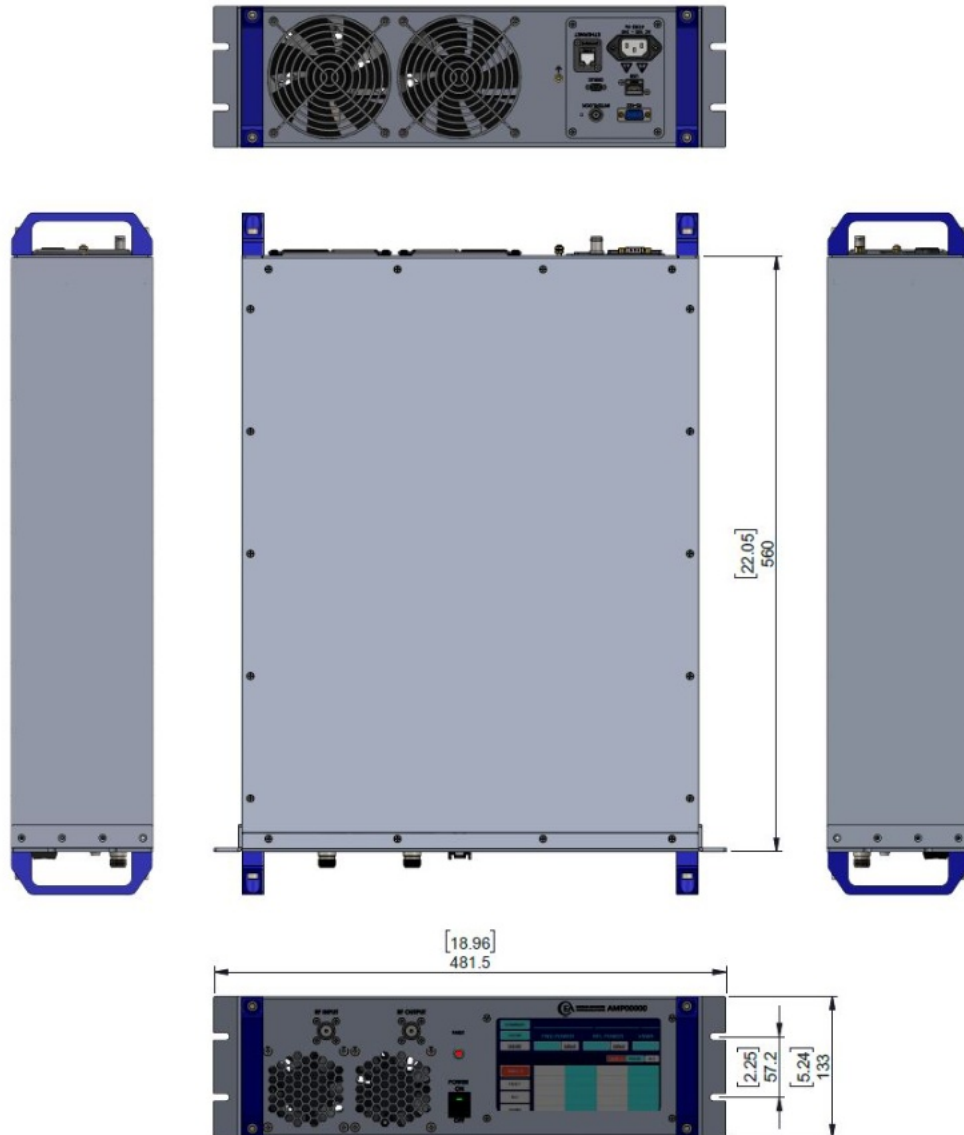
MECHANICAL SPECIFICATIONS

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 Conn. 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) 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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OUTLINE DRAWING
3U-SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER



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

