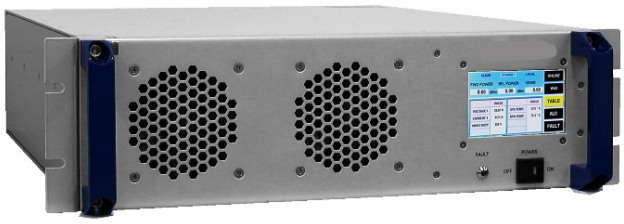
HD Communications Corp.

HD33808
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class A/AB linear GaN design
Instantaneous ultra-wide bandwidth
Designed for broadband EMI/RFI, Lab, Comm. and EW applications
Suitable for CW, pulse and all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 25°C, 50Ω

Parameter	Specification	Notes
Operating Frequency Range	0.7 - 6.0 GHz	
Power Output	100 Watt Typ / 80 Watt Min	
P1dB Power	50 Watt Typ	
Power Gain	50 dB Min	
Power Gain Flatness	3 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	
Input / Output Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	40dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	100 - 240 VAC	50/60 Hz
Power Consumption	1000 Watt Max	At rated output
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	∞ : 1	<1 minute at rated Pout
Sample Port Coupling	-30 to -40 dB	Optional - NF

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing
Shock & Vibration	MIL-STD-810E	Designed to meet

MECHANICAL SPECIFICATIONS

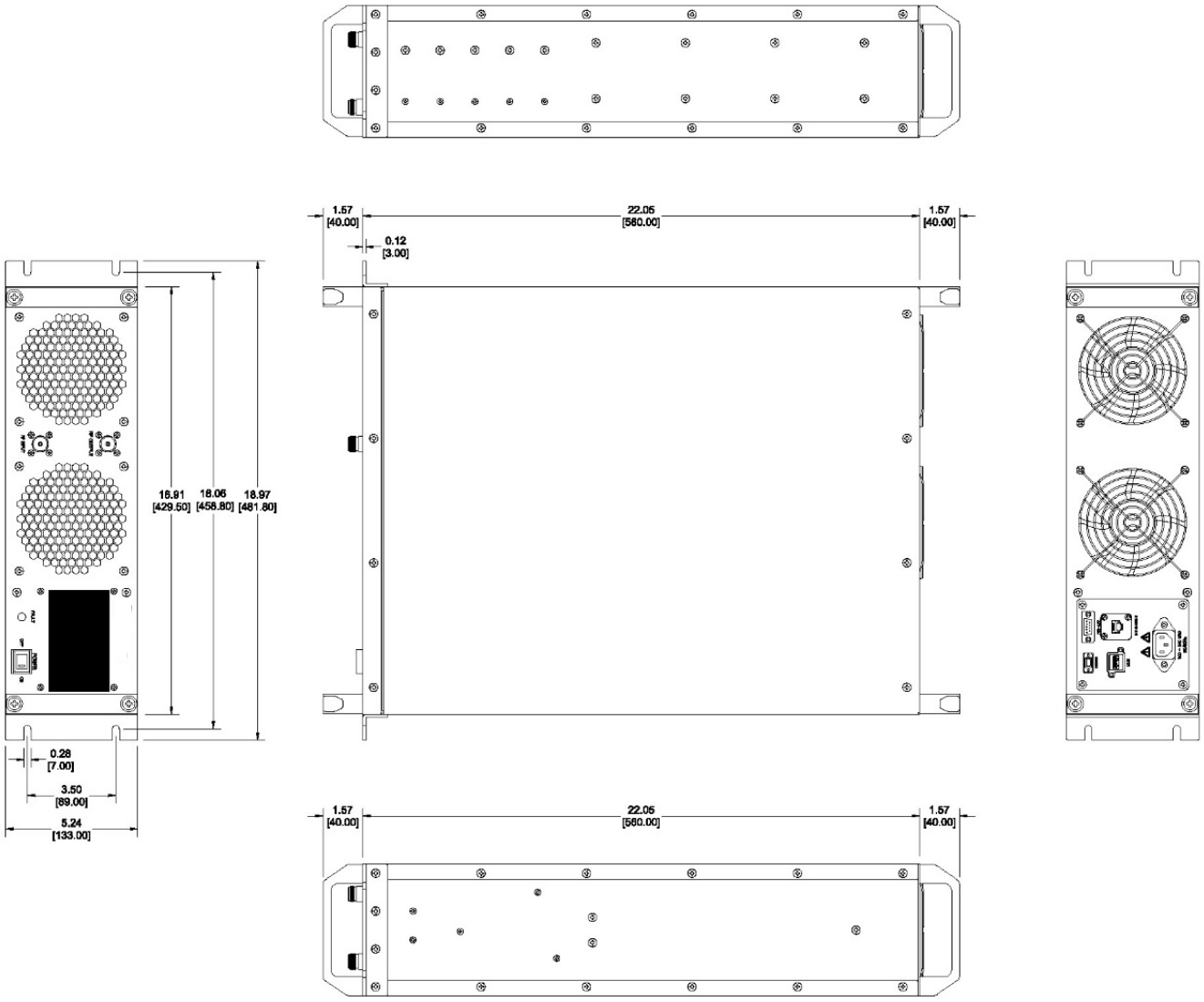
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133.3 x 560 mm	3U - Excluding handles
Weight	25 Kg. Max	
RF Connectors In / Out / Sample Port	Type-N Female / SMA-F	Rear or front panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

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OUTLINE DRAWING - Shown with Optional LCD Controller



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