HD31473
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

Rack mounted system
Class AB linear LDMOS design
Instantaneous ultra-wide bandwidth
Designed for EMI/RFI, lab, and general communication applications
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°

Parameter		Specification	Notes
Operating Frequency Range		80 - 1000 MHz	
Power Output @ Psat		1000 Watt Min	CW
Power Output @P1dB GCP		700 Watt Min	CW
Power Gain		60 dB Min	
Power Gain Flatness		4.0 dB p-p Max	
Input Return Loss		-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)		-30 dBc Typ	50dBm/Tone, Δ = 1MHz
Harmonics	2^{nd}	-30 dBc Typ	
	3^{rd}	-20 dBc Typ	
Spurious		-60 dBc Max	Non-harmonics
Operating Voltage		180 - 240 VAC	
Power Consumption		5 KW Max	At rated Pout
Input Power Protection		+8 dBm Max	<10 Sec without damage
Load VSWR Protection		10: 1	<1 minute at rated Pout

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	R5U + R3U	8U Rack mount chassis
Weight	60 Kg. Max	
RF Connectors In/Out	Type-N Female / 7/16 DIN	
AC Power / Interface	MS / 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	Remote Bluetooth application

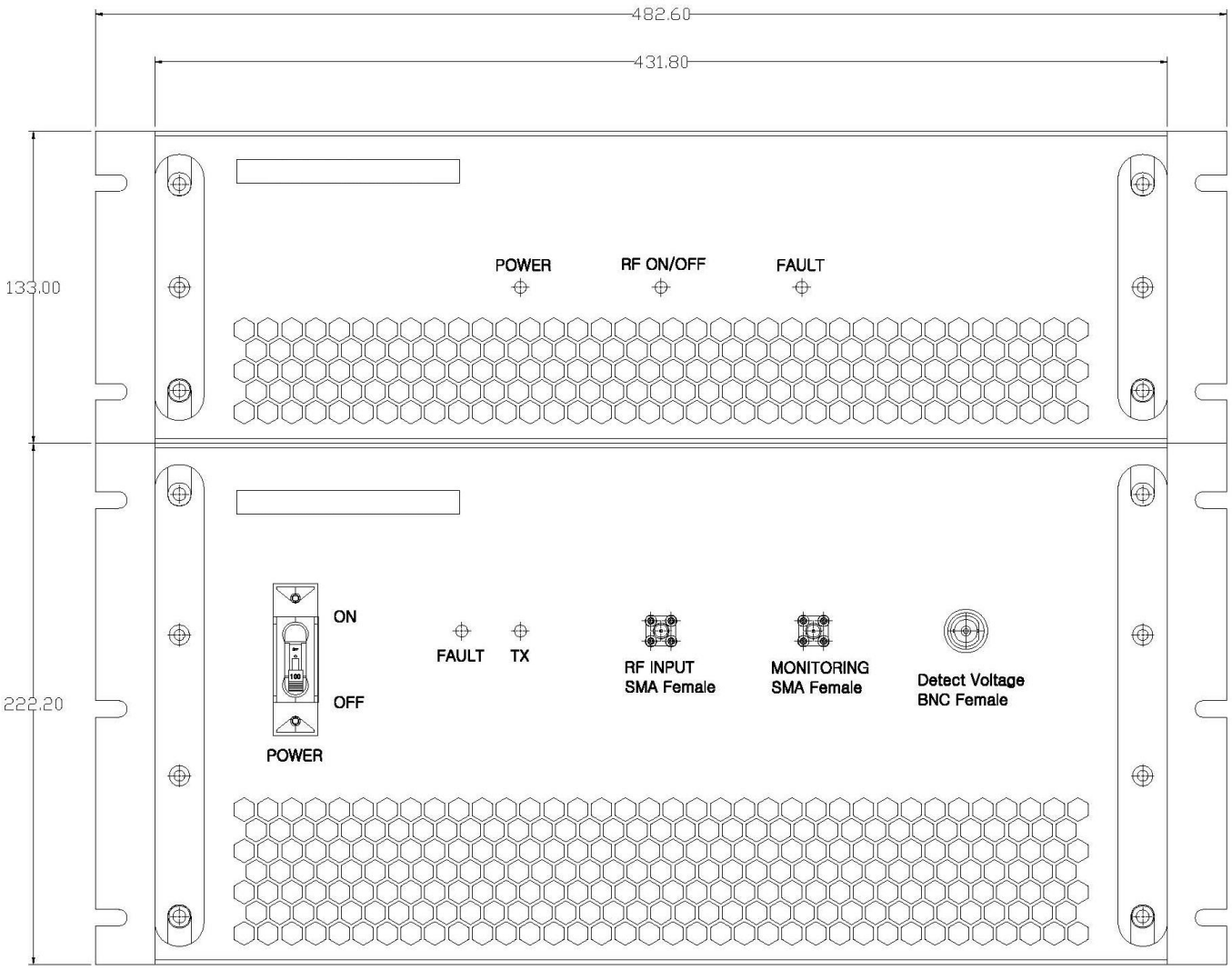
ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
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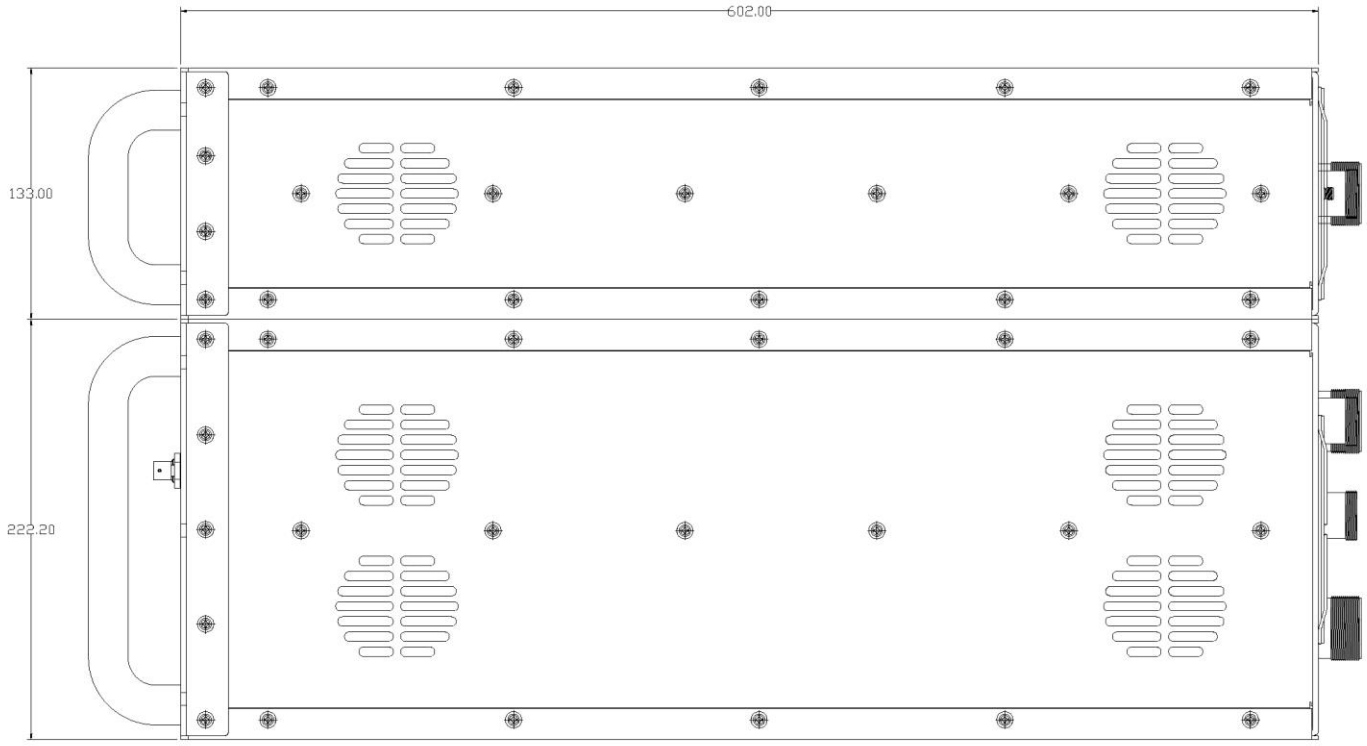
OUTLINE DRAWING



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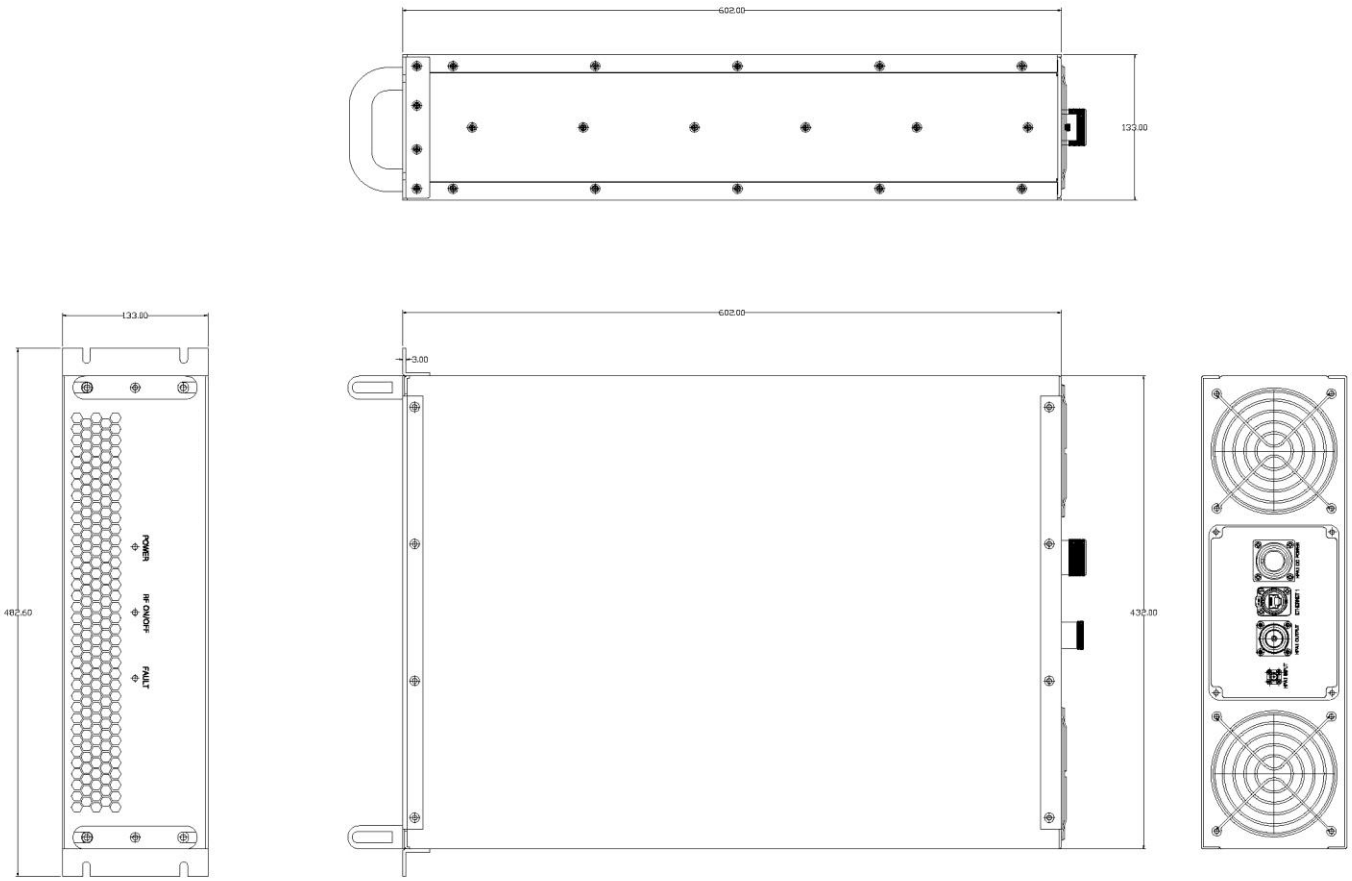
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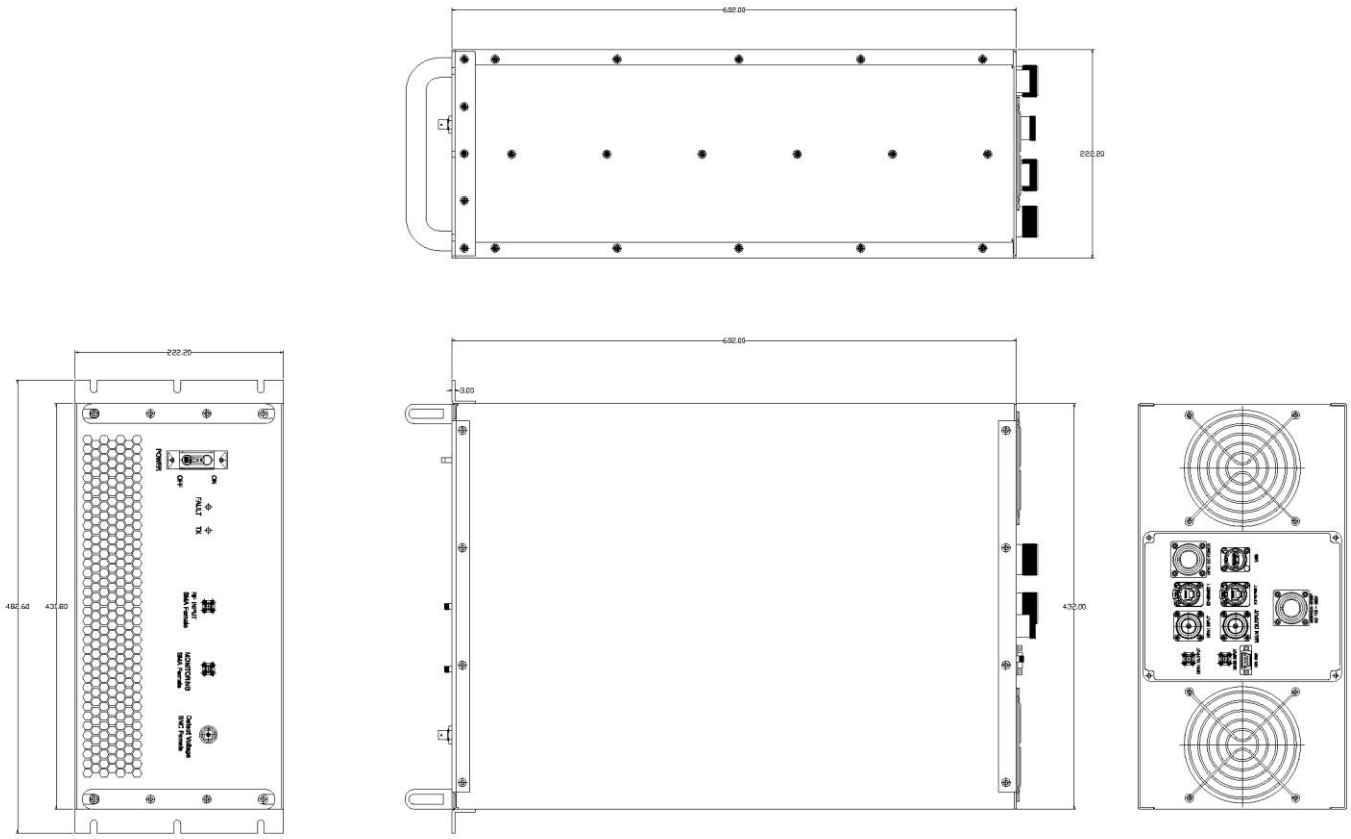
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