HD Communications Corp.

HD30960
SOLID STATE HIGH PULSE POWER AMPLIFIER

FEATURES

Small form factor rack-mounted system
Class AB linear GaN design
Instantaneous L-Band octave bandwidth
Suitable for linear high peak pulse applications
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification				Notes
Model	**HD30960-05K**	**HD30960-1K**	**HD30960-2K**	**HD30960-4K**	
Operating Frequency Range	1.0 - 2.0 GHz				
Power Output @ Peak Pulse	500 Watt Min	1 KW Min	2.0 KW Min	4.0 KW Min	Peak Pulse
Input Pulse Characteristics	**Width**	**Duty**	**PRF**	**Droop**	
	5 - 100 µS	5 % Max	1.0 - 10 KHz	<1 dB	
Power Gain	57 dB Min	60 dB Min	63 dB Min	66 dB Min	
Power Gain Flatness	2.0 dB p-p Max				Constant input power
Input Return Loss	-10 dB Max				Relative to 50 Ω
Noise Figure	6 dB Max				
Output Power On/Off Ratio	-90 dB Max				TTL Gate Control
Harmonics	<-20 dBc Typ				At rated output power
Spurious	-60 dBc Max				Non-harmonics
Operating Voltage	100 - 240 VAC				50 - 60Hz
Power Consumption	250 Watt Max	400 Watt Max	800 Watt Max	1.5 KW Max	At rated Pout
Input Power Protection	+8 dBm Max				<10Sec without damage
Load VSWR	Full spec @ 1.5 : 1 & Operational @ 2 : 1				

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

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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

MECHANICAL SPECIFICATIONS

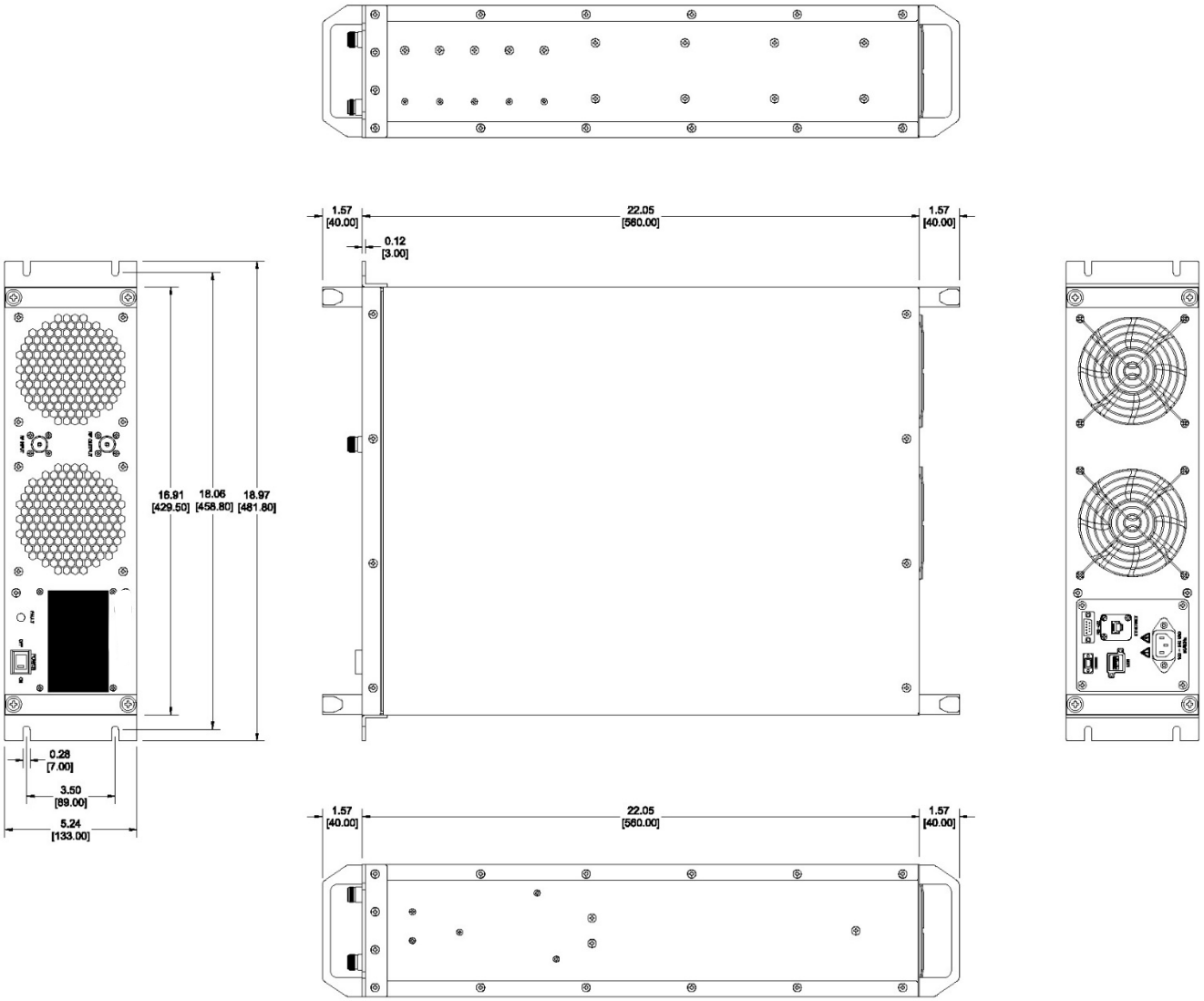
Parameter	Specification				Notes
Dimensions W x H x D	3U	3U	5U	8U	Rack mount chassis
Weight	20 Kg	20 Kg	30 Kg.	40 Kg.	
RF Connectors In / Out	Type-N F	Type-N F	Type-N F / DIN		
AC Power / Interface Connector	MS / D-Sub				
Cooling	Built in Fan Cooling				Variable speed
Optional Digital Monitor & Control: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, USB, RS422/485, USB Optional GPIB Interface				

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OUTLINE DRAWING - 3U

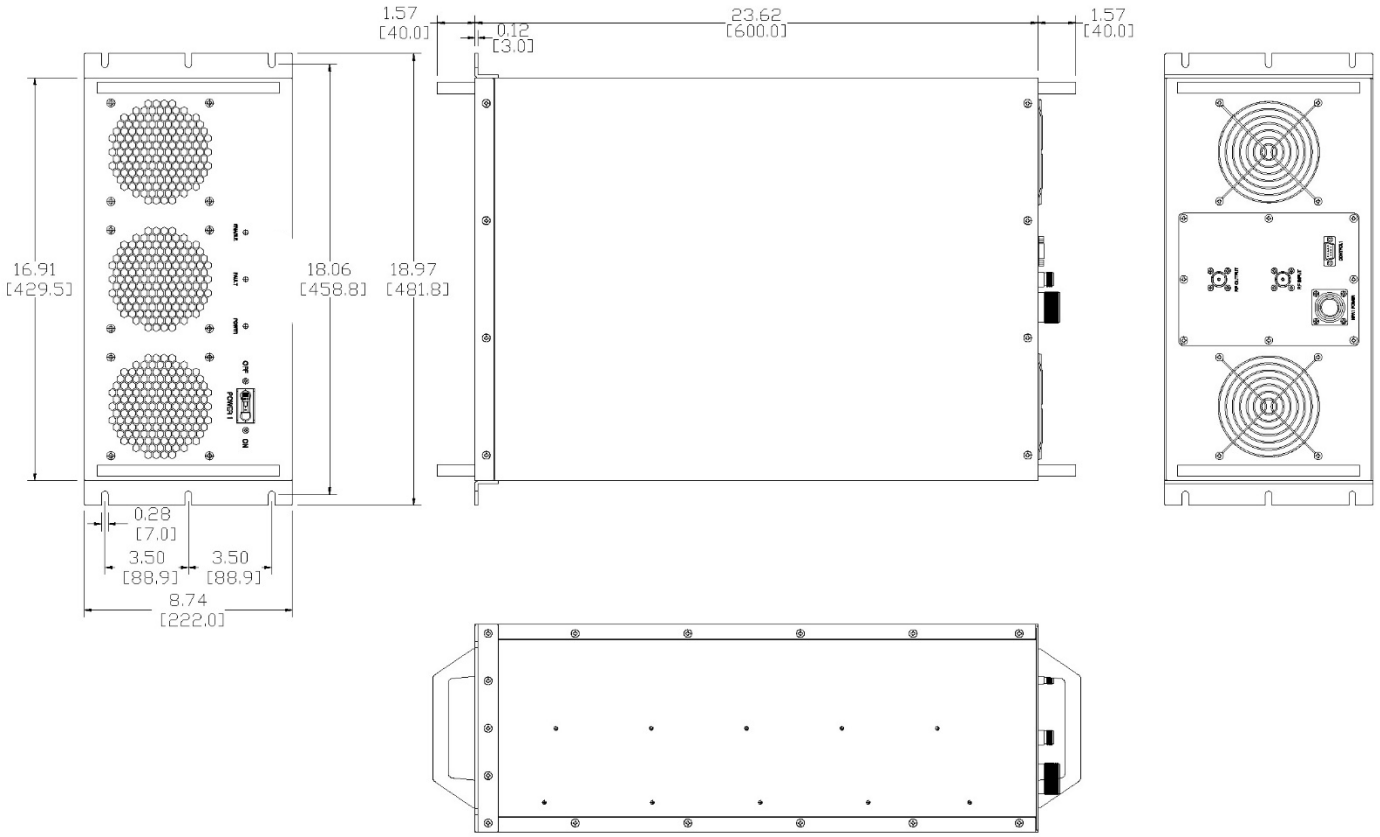


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OUTLINE DRAWING - 5U

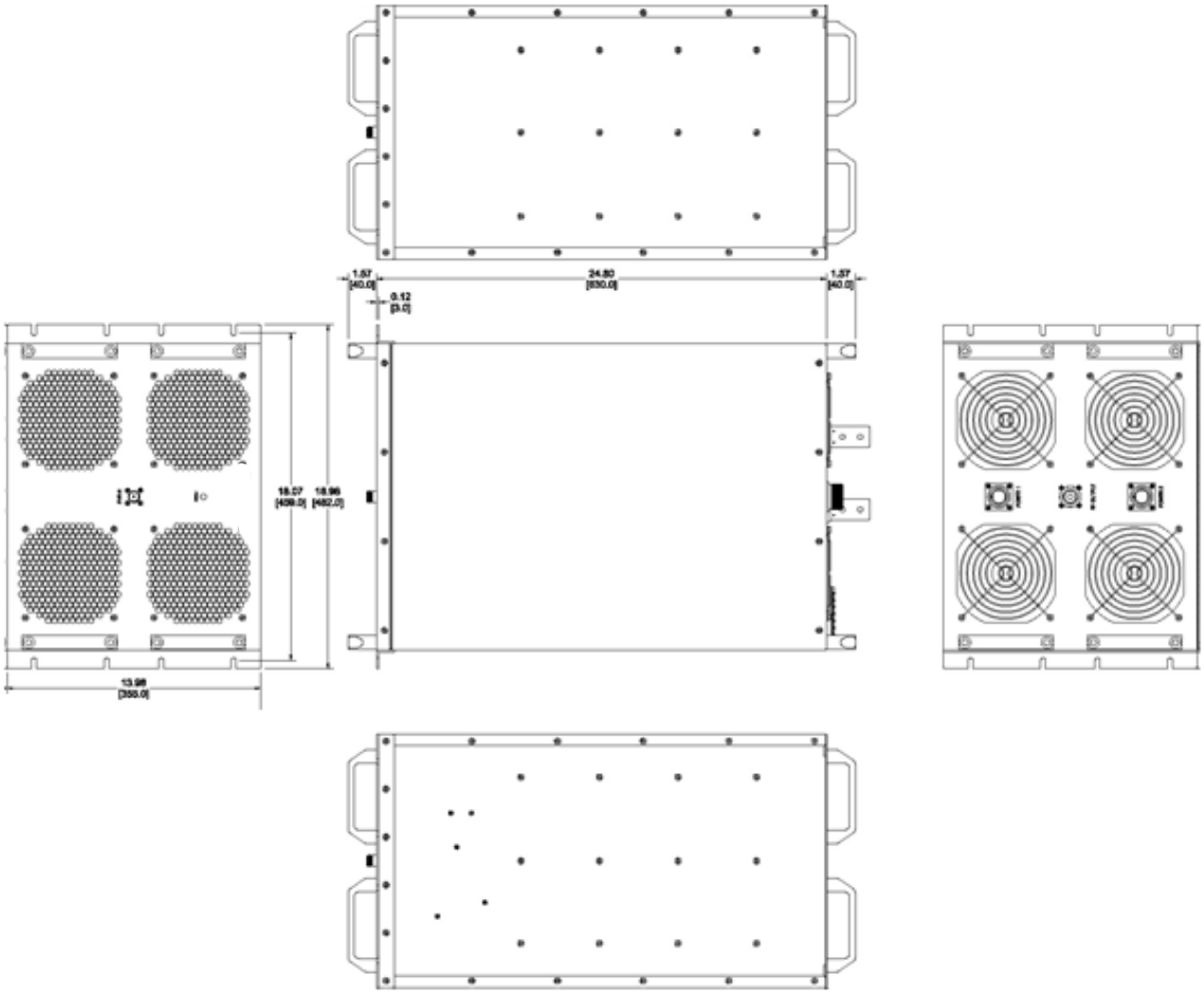


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OUTLINE DRAWING - 8U



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