HD33384
SOLID-STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

Rack mounted system
Class AB solid-state linear design
Narrow band IFF frequency range
Suitable for L-Band high power pulse applications
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter		Specification			Notes	
Operating Frequency Range		1030 & 1090 MHz				
Power Output Peak Pulse		2000 Watt Min				
Pulse Characteristics		**Duty**	**Width**	**Droop**	**Rise / Fall**	
		0.1 - 4 %	32 µS	<1 dB	<75 nS	
Power Gain		63 dB ± 2.0dB			Pin = 0dBm for Nom Pout	
Power Gain Flatness		1.0 dB p-p Max			Constant input power	
Input Return Loss		-10 dB Max			Relative to 50 Ohm	
Harmonics	2^{nd}	-40 dBc Typ			At rated Pout	
	3^{rd}	-40 dBc Max				
Spurious		-60 dBc Max			Non-harmonics	
Operating Voltage		100 - 240 VAC				
Power Consumption		6 KW Peak Max / 400 Watt Avg Max			2000 Watt with DS = 4 %	
Input Power Protection		+8 dBm Max			<10 Sec without damage	
Load VSWR Protection		10 : 1 Max			<1 minute at Rated Pout	

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 and Vibrations	Normal truck transport	
Altitude	10,000 feet Min	

MECHANICAL SPECIFICATIONS

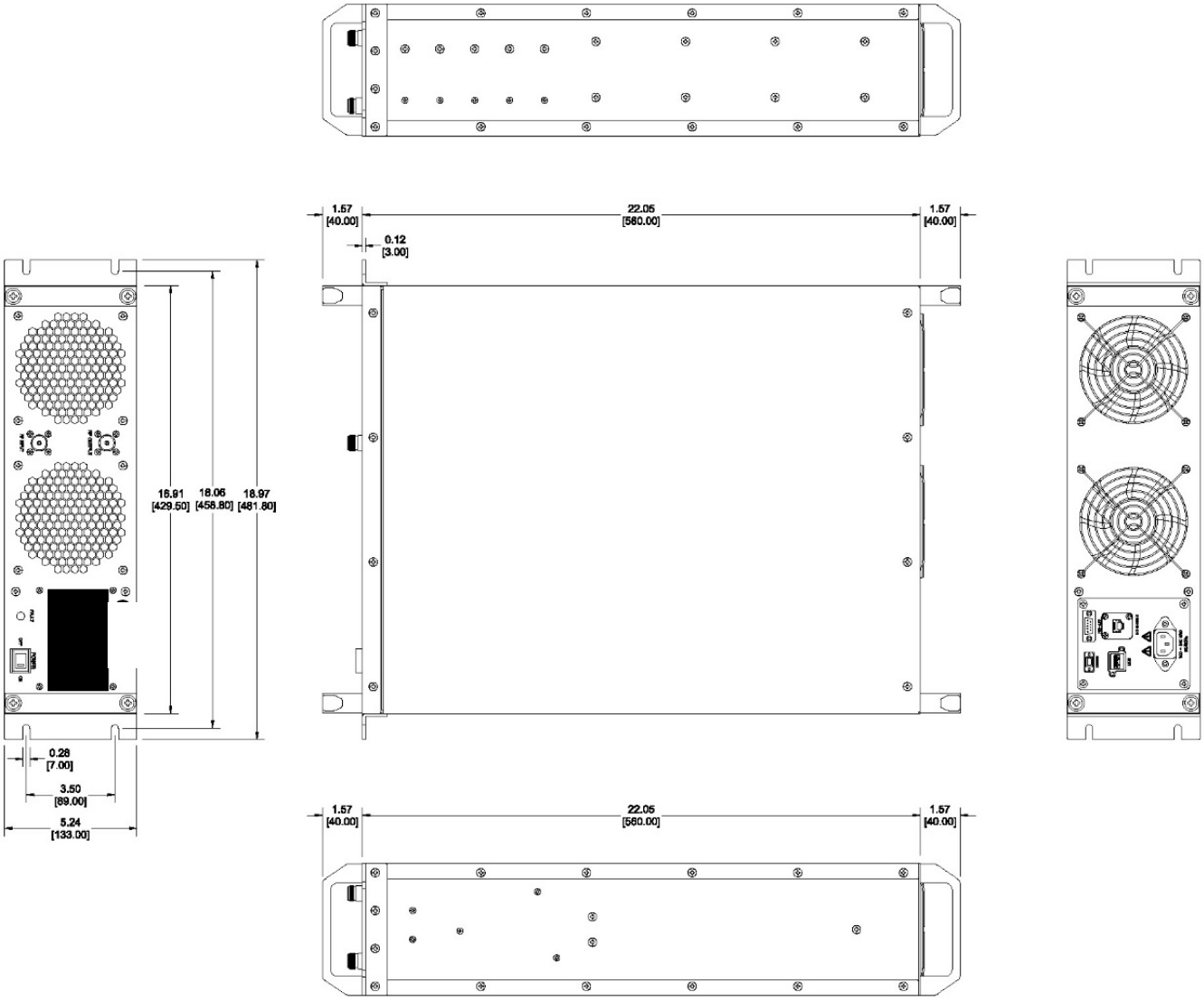
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U - Excluding handles
Weight	20 kg.	
RF Connectors In / Out	Type-N Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	Remote Bluetooth application

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OUTLINE DRAWING



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