HD32147
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.



FEATURES

L-Band high power pulse applications
Rack mounted system
Class AB linear LDMOS design
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes
Operating Frequency Range	1.0 GHz ±25 MHz			Nominal
Power Output Pulse	5 KW Min			Peak Pulse
Input Pulse Characteristics	Width	Duty Cycle	PRF	Typical values
	17 µSec	2 %	600 Hz	
Power Gain	67 dB Min			
Input / Output Return Loss	10 dB Min			Relative to 50 Ohm
Harmonics	-30 dBc Max			At rated output
Non-Harmonic Spurious	-60 dBc Max			
Operating Voltage	100 - 240 VAC			
Power Consumption per Duty Cycle	800 Watt @ 2%			At rated output
Max Input Power	+3 dBm			Protection circuit
Load VSWR Protection	∞ : 1			

ENVIRONMENTAL CHARACTERISTICS

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

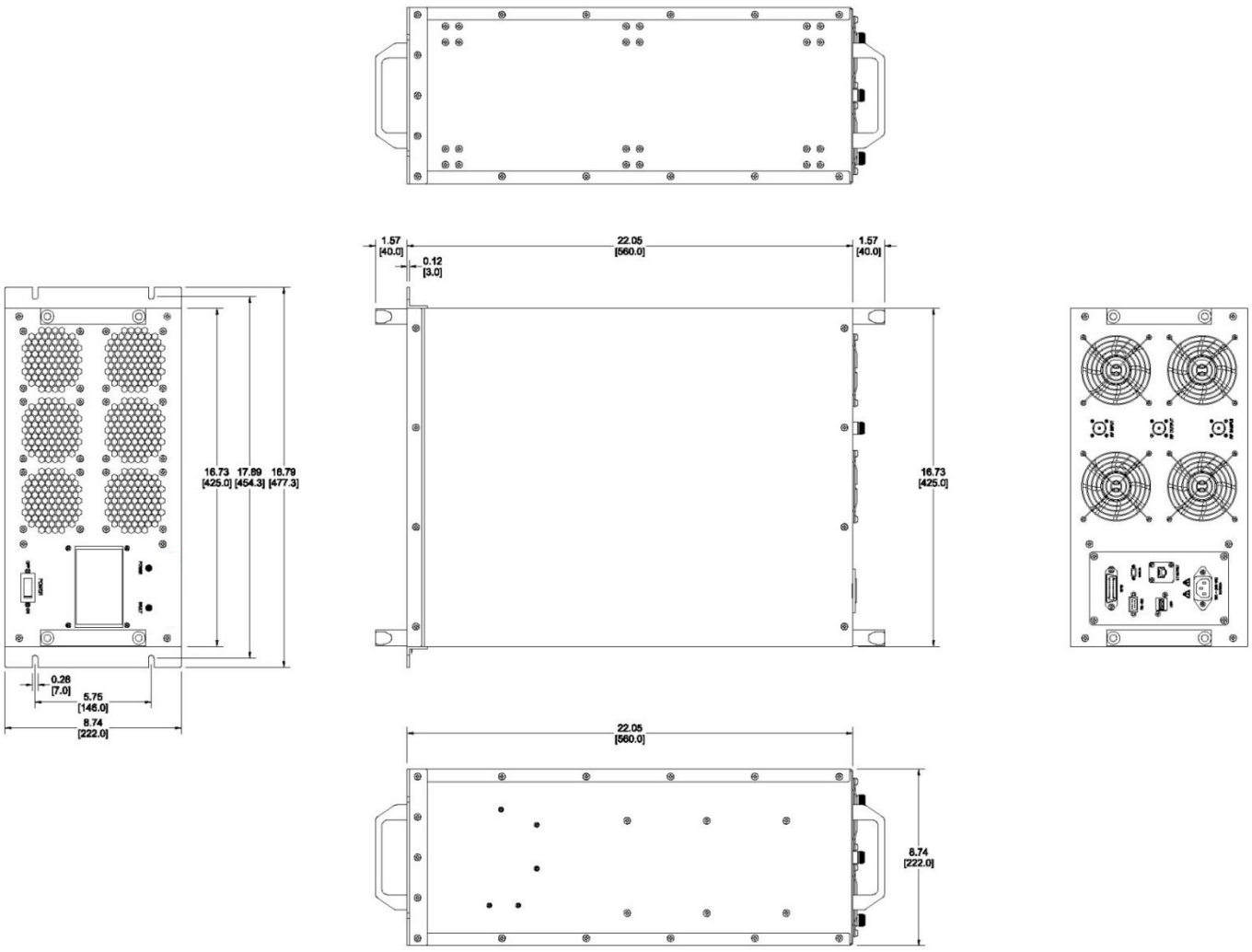
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D		Per outline drawing
Weight	30 Kg. Max	
RF Connectors In/Out	Type-N Female	Front Panel Standard
AC Power	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 Optional GPIB Interface	Remote Bluetooth application

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

HD32147
SOLID STATE HIGH POWER AMPLIFIER

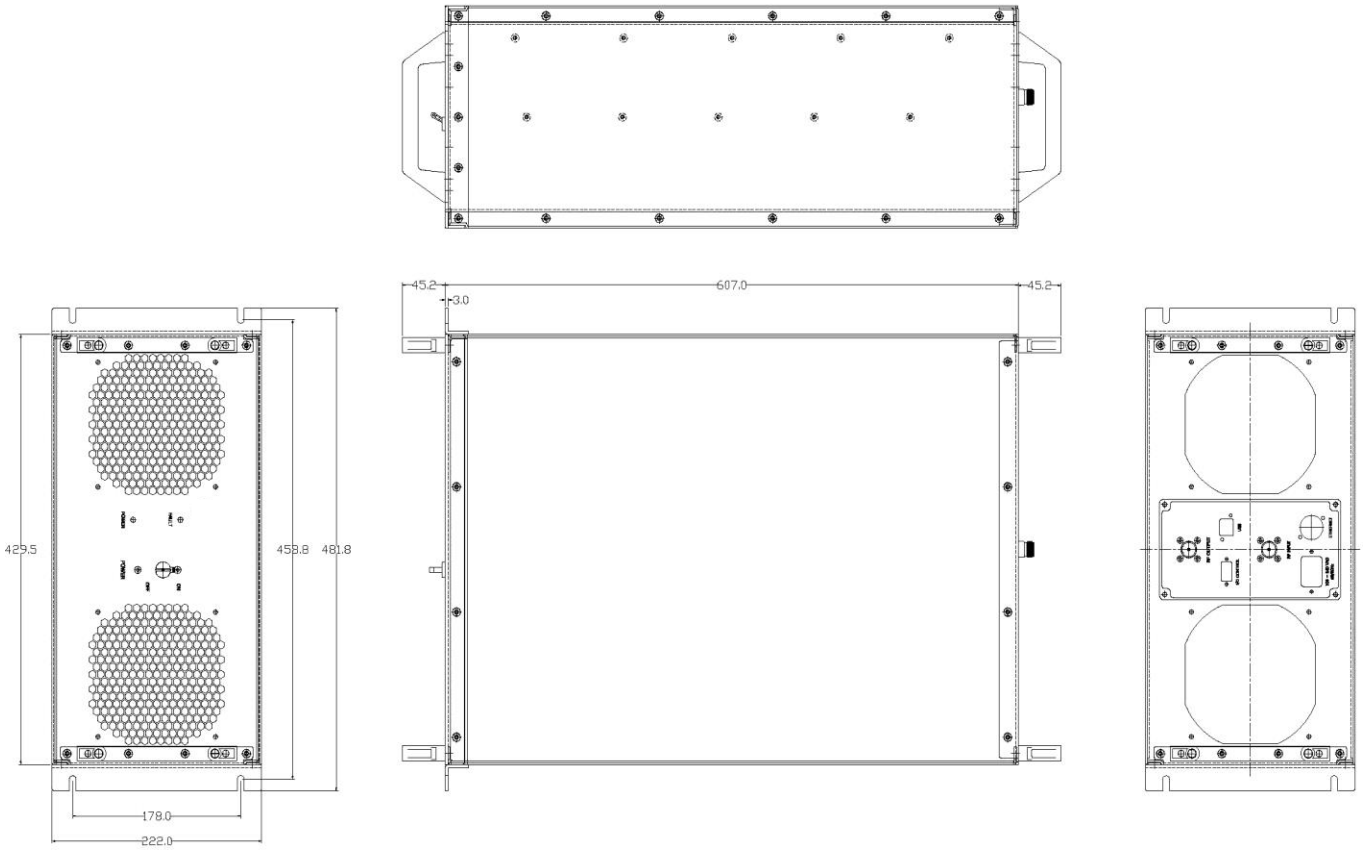
OUTLINE DRAWING - With Controller and Display Option



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

HD32147
SOLID STATE HIGH POWER AMPLIFIER

- 5U System Outline (Rear Connectors Input N, Output N)



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