HD Communications Corp.

HD31213
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB linear GaN design
Instantaneous wide bandwidth
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	2.5 - 6.0 GHz	
Power Output@ Psat	250 Watt Typ	CW
Power Output @ P1dB GCP	180 Watt Min / 200 Watt Typ	
Power Gain	53 dB Min	
Power Gain Flatness	5 dB p-p Max	Constant input power
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	<-30 dBc Typ	43dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non -harmonic
Operating Voltage	180 - 240 VAC	
Power Consumption	2000 Watt Max	At rated output
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1	<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-condensation

MECHANICAL SPECIFICATIONS

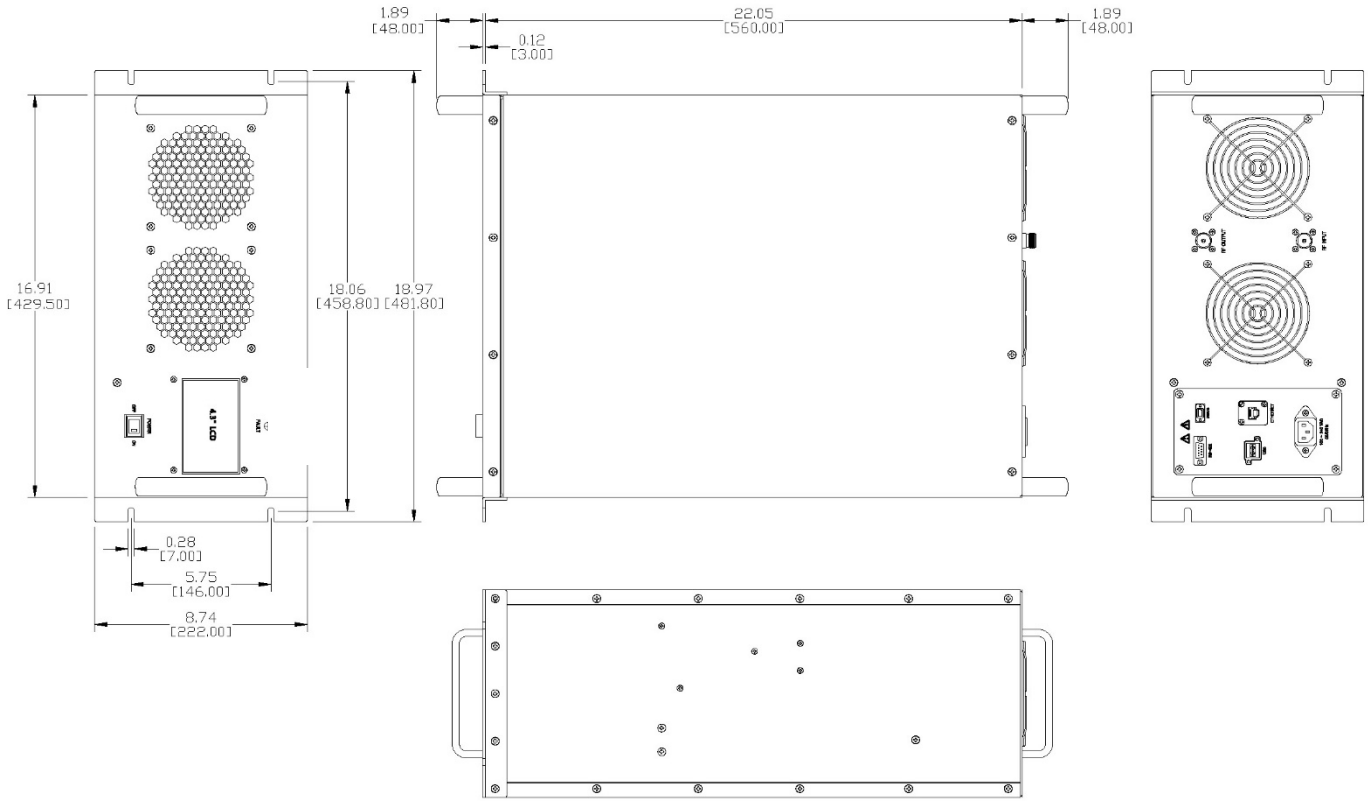
Parameter	Specification	Notes
Dimensions W x H x D	R5U Rack Mount Chassis	5U
Weight	35 Kg. Max	
RF Connectors In/Out	Type-N Female	Front Panel Standard
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, 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.com www.rfamplifiers.com sales@hdcom.com

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OUTLINE DRAWING



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