HD Communications Corp.

HD32049
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Power Output @ Psat	80 Watt Min / 100 Watt Typ	CW
Power Gain	50 dB Min	
Power Gain Flatness	4 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	39dBm/Tone, Δ = 1MHz
Harmonics	>20 dBc Typ	At rated output
Non Harmonic Spurious	60 dBc Min	
Operating Voltage	180 - 240 VAC	
Power Consumption	1600 Watt Max	At rated output
Max Input Power	+3 dBm	Nominal Input Power is 0dBm +3dBm is allowed for 10 sec only
Load VSWR Protection	5 : 1	1 Minute Max @ rated min 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

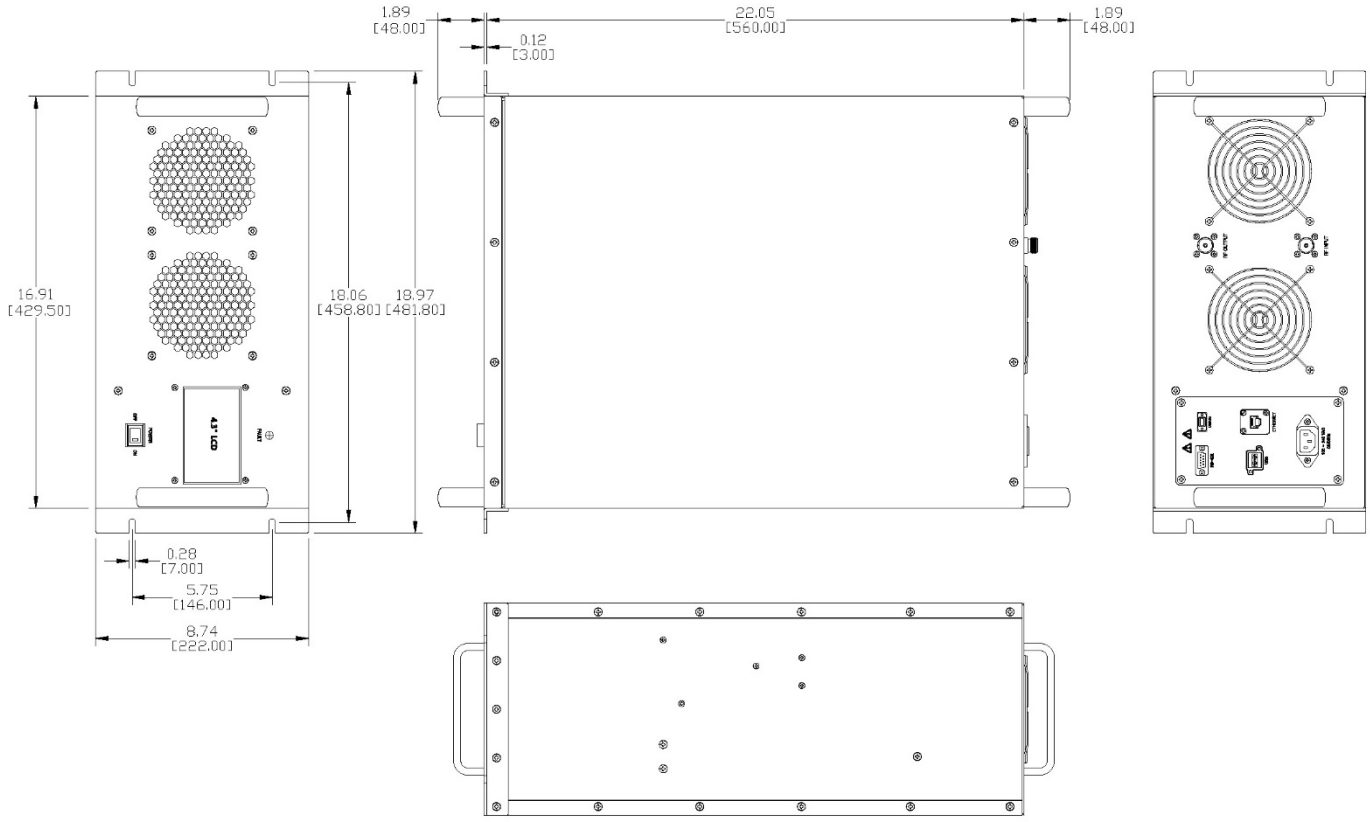
Parameter	Specification	Notes
Dimensions W x H x D	19 x 8.75 x 22.5 inch (430 x 133.3 x 560 mm)	R5U - excluding connectors
Weight	60 lb. (30 Kg.) Max	
RF Connectors In / Out	Hi Freq. SMA F	Front panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control GAIN, V & I, TEMP	Full feature controller is not available	

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OUTLINE DRAWING



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