HD Communications Corp.

HD32042
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes
Operating Frequency Range	0.5 - 2.0 GHz			
Power Output @ Saturation	500 Watt Min			CW
Power Output @ P1dB GCP	250 Watt Min			
Power Gain	57 dB Min			
Power Gain Flatness	3.0 dB p-p Max			Constant input power
Input Return Loss	10 dB Min			Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ			47dBm/Tone, Δ = 1MHz
Harmonics	>20 dBc Typ			At rated output power
Non Harmonics Spurious	60 dBc Min			
Operating Voltage	180 - 240 VAC			
Power Consumption	3 KW Max			At rated Pout
Max Input Power	+8 dBm			Note 1
Load VSWR Protection	∞ : 1			Note 2
Band Filter Range Cutoff (MHz)	800	1400	2000	Nominal Values

Notes:

1. Nominal Input Power is 0dBm. +8dBm is allowed for up to 10Sec with no damage.
2. 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 Condensing

MECHANICAL SPECIFICATIONS

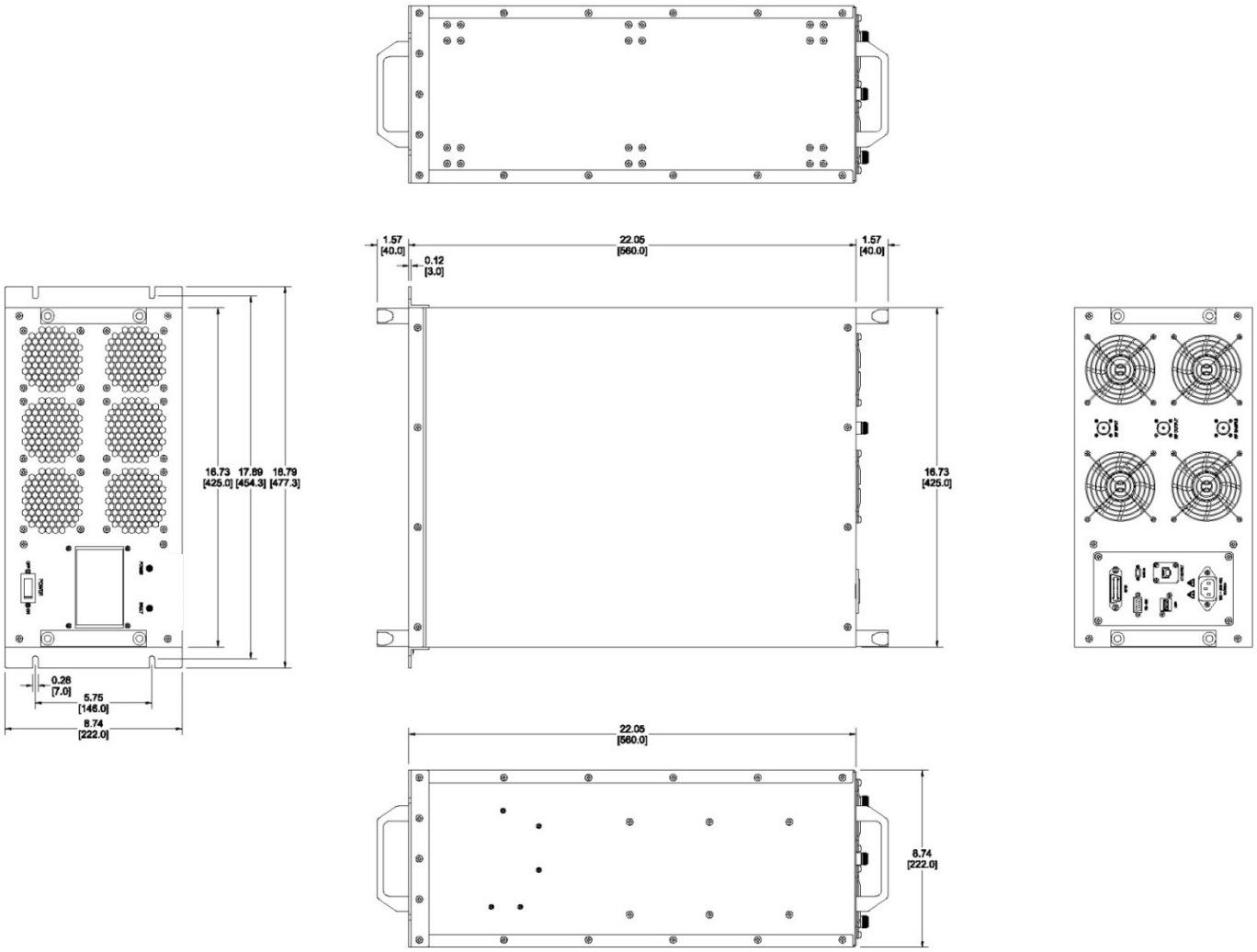
Parameter	Specification	Notes
Dimensions W x H x D	5U Rack Mount Chassis	See outline drawing
Weight	35 Kg	
RF Connectors In / Out	Type-N Female	Front Panel Standard
AC Power / Interface	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Remote Bluetooth application

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OUTLINE DRAWING



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