HD Communications Corp.

HD32121
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Linear GaAsFET design
Instantaneous Ka Band coverage
Designed for EMI/RFI, lab, and general communication applications
Suitable for all single channel modulation standards
Small and light weight rack mount system
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	26.5 - 32 GHz	
Power Output CW	10 Watt Min	CW
Power Output @ P1dB	6 Watt Typ	
Power Gain	40 dB Min	
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	30dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	300 Watt Max	At rated Pout
Input Power Protection	+3 dBm Max	<10 Seconds without damage
Load VSWR Protection	5 : 1 Max	<1 Minute @ rated output

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

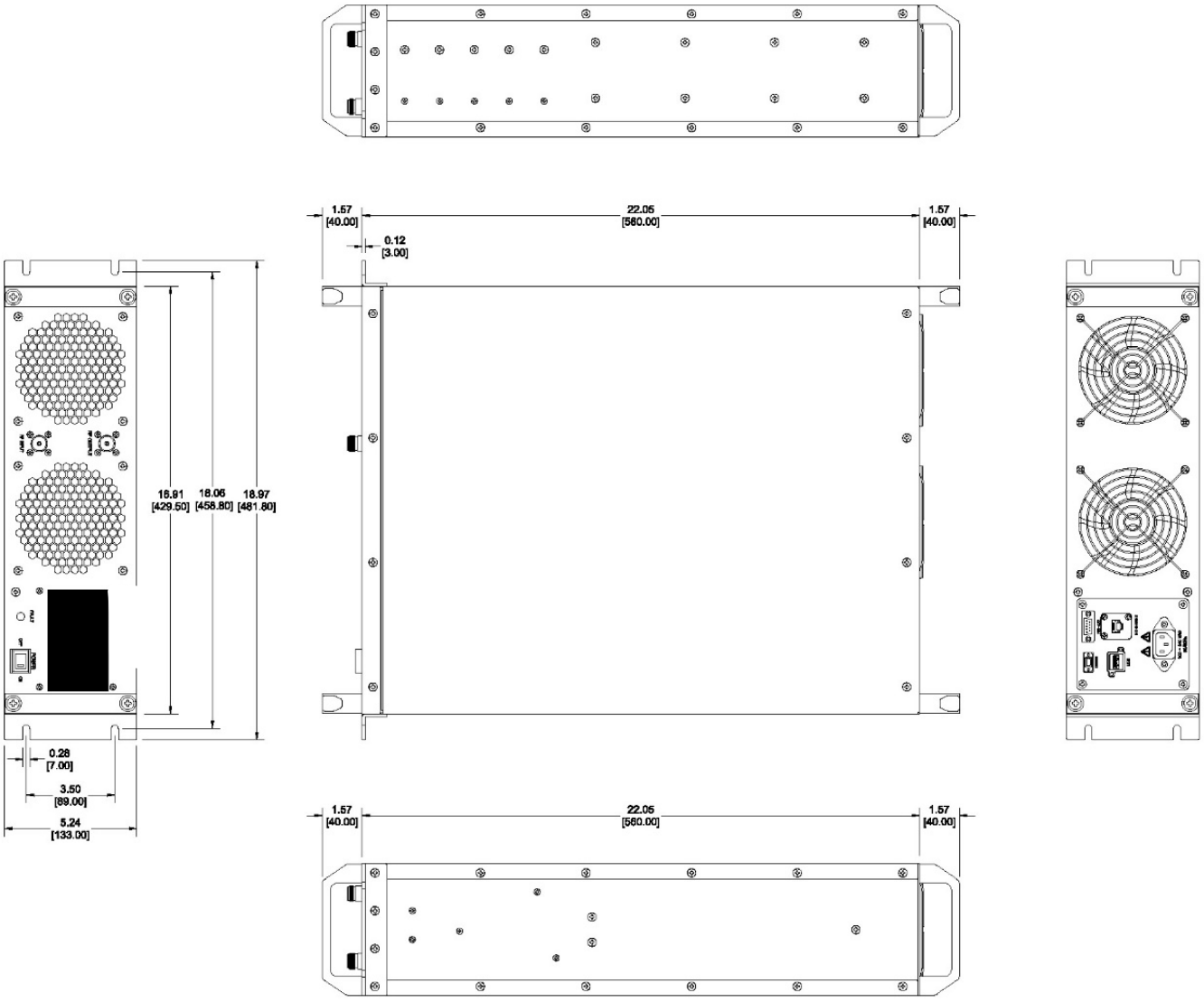
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U - Excluding handles
Weight	15 Kg.	
RF Connectors In/Out	2.9 mm K Female / WR28	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

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OUTLINE DRAWING



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