HD Communications Corp.

HD32868
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Instantaneous ultra-wide bandwidth
Class AB linear LDMOS design
Rack mounted system
Designed for broadband EMI/RFI, Lab, Communication applications
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	10 KHz - 100 MHz	
Power Output @ Psat	150 Watt Min	200 Watt Typ, CW
Power Output @ P1dB	120 Watt Min	
Power Gain	52 dB Min	
Power Gain Flatness	4.0 dB p-p Max	
Gain Adjustment Range	>25 dB Typ	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	<-30 dBc Typ	42dBm/Tone, Δ = 1MHz
Harmonics	<-25 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	500 Watt Max	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	∞ : 1	Auto shutdown @ <5:1

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing
Shock & Vibration	MIL-STD-810E	Designed to meet

MECHANICAL SPECIFICATIONS

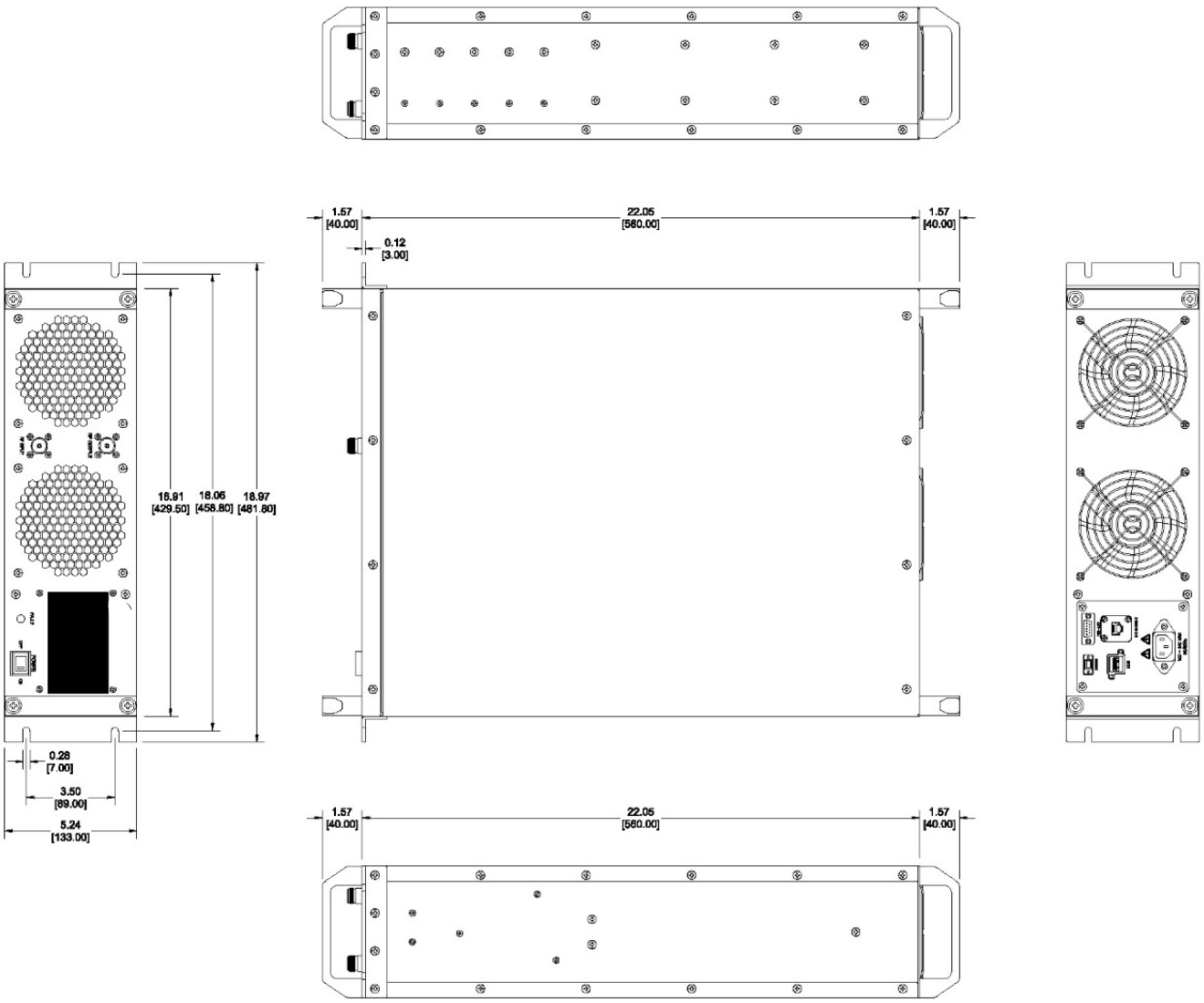
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U- Excluding handles
Weight	15 Kg. Max	
RF Connectors In/Out	Type-N Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built-in Quiet Cool Fan Cooling	Temperature controlled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

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OUTLINE DRAWING



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