HD Communications Corp.

HD32296
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB linear LDMOS design
Dual Band switching front panel or remote
Instantaneous ultra-wide bandwidth
Designed for broadband EMI/RFI, Lab, Comm., and EW applications
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 25°C, 50Ω

Parameter	Specification		Notes
Operating Frequency Range	10 kHz - 200 MHz	200 MHz - 1.0 GHz	Band switching @ 15 mS Typ
Power Output @ Psat	250 Watt Min		CW, 300 Watt Typ
Power Output @ P1dB	200 Watt Typ		CW
Power Gain	54 dB Min		
Power Gain Flatness	3 dB p-p Max		
Input / Return Loss	-10 dB Max		Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ		44 dBm/Tone, Δ = 1 MHz
Harmonics	-20 dBc Typ		-13 dBc 3rd's Typ in low-band
Spurious	-60 dBc Max		Non-harmonic
Operating Voltage	100 - 240 VAC		
Power Consumption	1800 Watt Max		At rated Pout
Input Power Protection	+5 dBm Max		<10 Sec without damage
Load VSWR Protection	∞ : 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-condensing

MECHANICAL SPECIFICATIONS

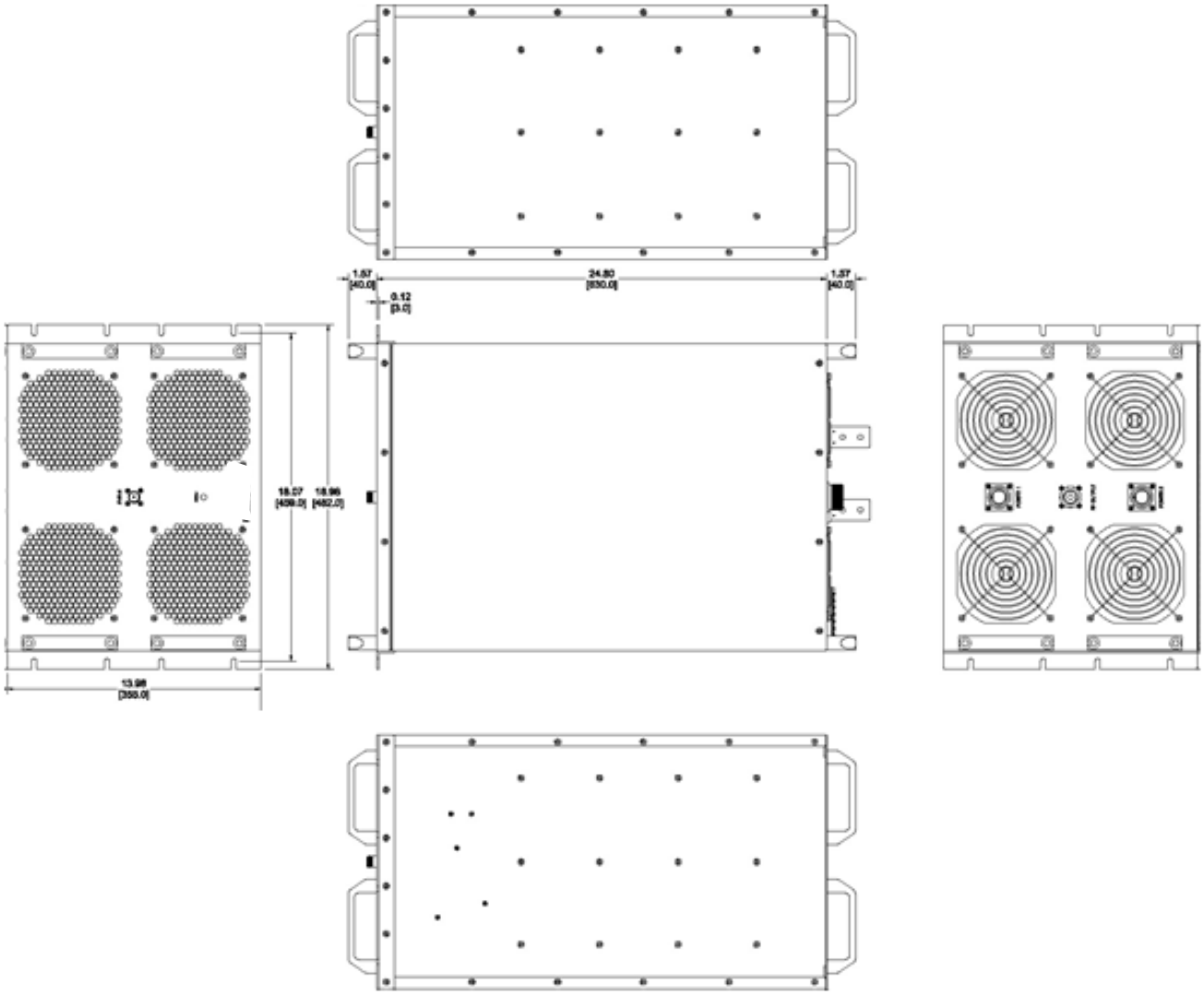
Parameter	Specification	Notes
Dimensions W x H x D	483 x 356 x 635 mm	8U - Excluding handles
Weight	40 Kg. Typ.	
RF Connectors In/Out	Type-N Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
STANDARD: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

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OUTLINE DRAWING



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