HD Communications Corp.

HD32838
SOLID STATE HIGH POWER AMPLIFIER



FEATURES
Rack mounted system
Class AB linear LDMOS design
Instantaneous ultra-wide bandwidth
Suitable for high power long pulse standards
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS: 50Ω, 25°

Parameter		Specification			Notes
Operating Frequency Range		30 - 520 MHz			
Power Output		1000 Watt Min			CW
Power Gain		60 dB Min			
Pulse Characteristics		**Width**	**Duty**	**Droop**	
		10 - 500 µS	30%	<1 dB	
Power Gain Flatness		3.0 dB p-p Max			
Input Return Loss		-10 dB Min			Relative to 50 Ohm
2-Tone Intermodulation (IMD)		-30 dBc Typ			50dBm/Tone, Δ = 1MHz
Harmonics	2^{nd}	-30 dBc Typ			
	3^{rd}	-20 dBc Typ			
Spurious		-60 dBc Max			Non-harmonics
Operating Voltage		180 - 240 VAC			
Power Consumption		3 KW Avg Max			At 500 µS & 30%
Input Power Protection		+8 dBm Max			Note 1
Load VSWR Protection		∞: 1			Note 2

Notes:
1. Nominal Input Power is 0dBm. +8dBm is allowed for up to 10Sec with no damage.
2. 1 Minute Max @ rated Pout – Auto shutdown with controller option.

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

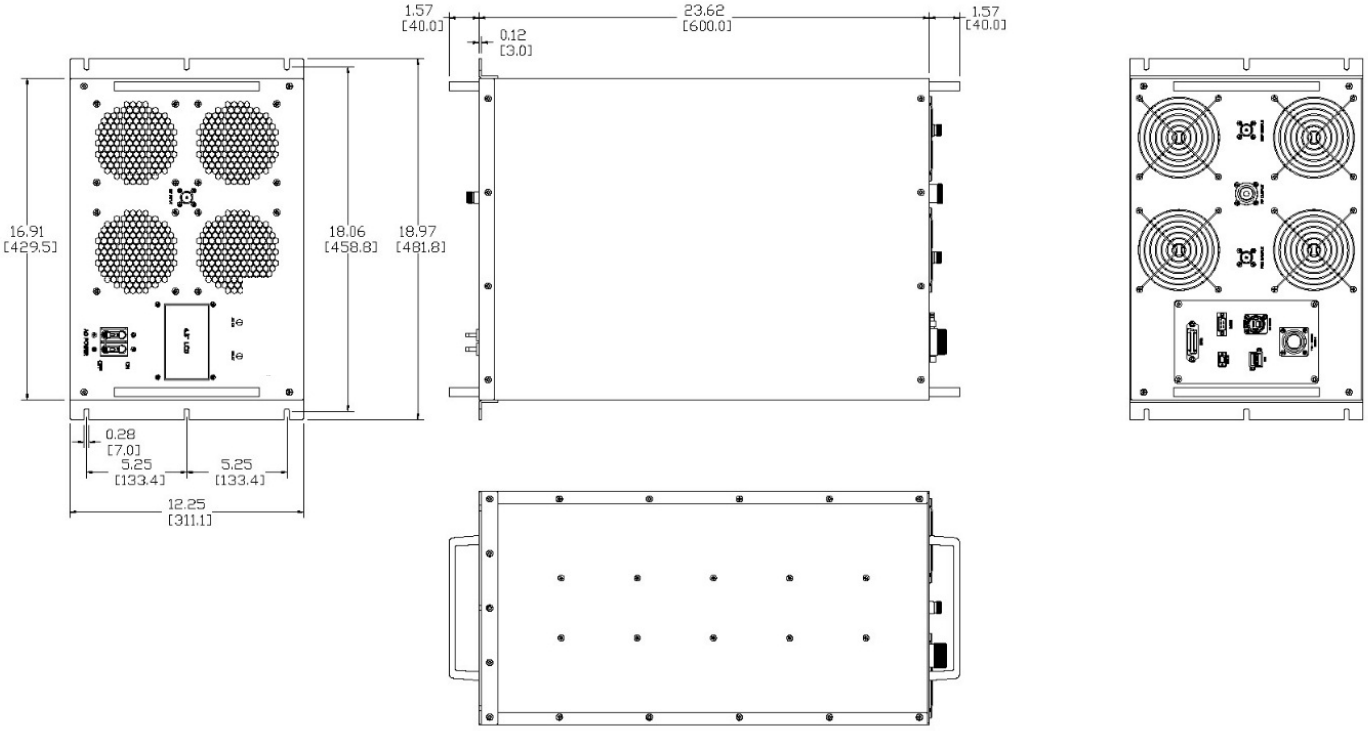
Parameter	Specification	Notes
Dimensions	430 x 311 x 600 mm	7U excluding handles
Weight	40 Kg.	
RF Connectors In/Out	Type-N Female	Front or rear panel
AC Power	See outline drawing	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	Local LCD or a Remote Bluetooth application

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

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OUTLINE DRAWING



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