HD32863
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter		Specification	Notes
Operating Frequency Range		1 - 500 MHz	
Power Output @ PSAT		100 Watt Min	CW
Power Output @ P1dB		50 Watt Min	CW
Power Gain		50 dB Min	
Power Gain Flatness		3.0 dB p-p Max	Constant input power
Input / Output Return Loss		-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)		-30 dBc Typ	40dBm/Tone, Δ = 1MHz
Harmonics	2^{nd}	<-35 dBc Typ	At rated output power
	3^{rd}	<-15 dBc Typ	
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	<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

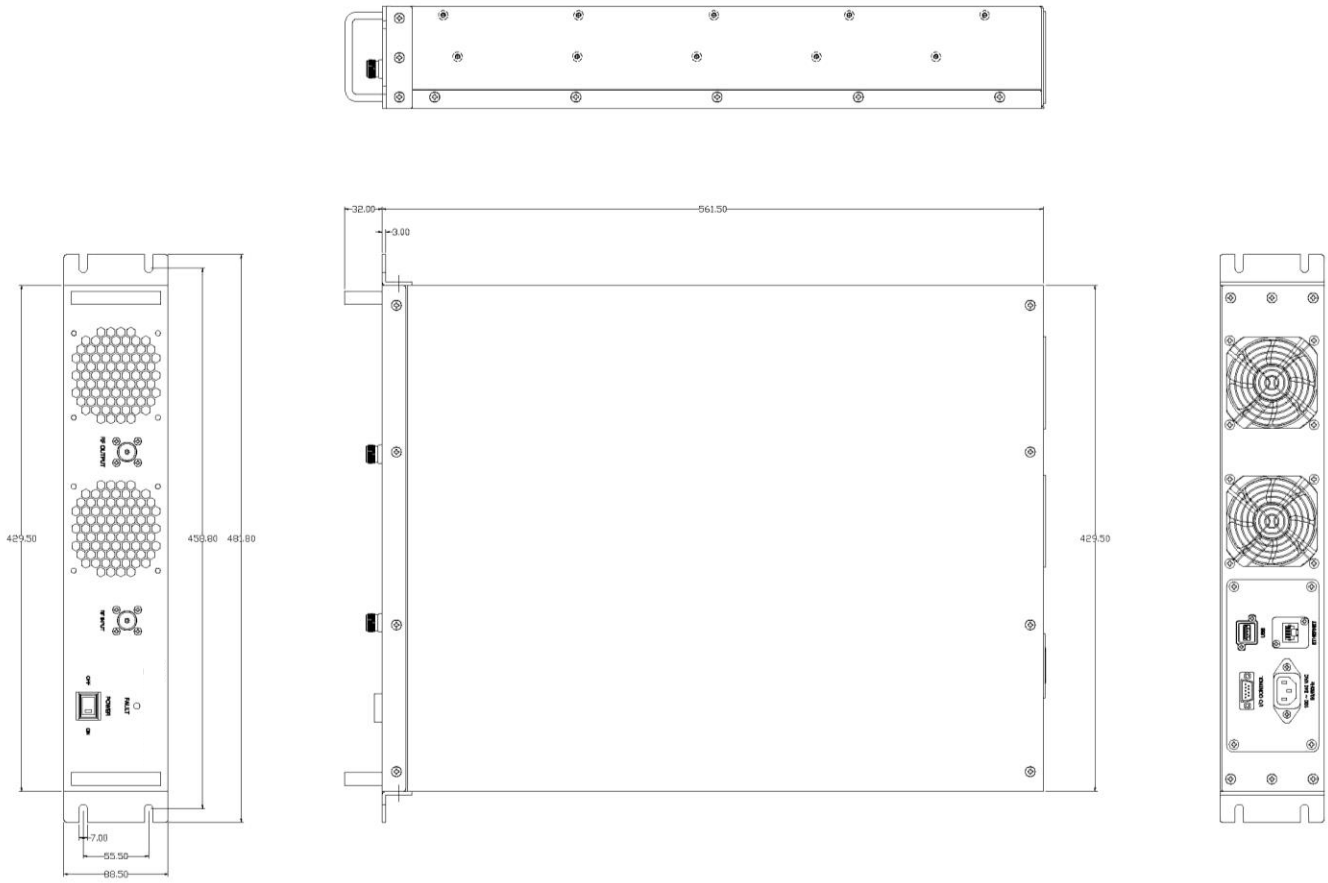
Parameter	Specification	Notes
Dimensions W x H x D	430 x 88 x 562 mm	2U - Without handles
Weight	10 kg.	
RF Connectors In / Out	Type-N Female	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	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

HD32863
SOLID STATE HIGH POWER AMPLIFIER

Communications Corp.

OUTLINE DRAWING



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