HD Communications Corp.

HD32045
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear LDMOS design
Instantaneous ultra-wide bandwidth
Rack mounted system
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	80 - 1000 MHz	
Power Output @ Saturation	750 Watt Typ	CW
Power Output @ P1dB GCP	500 Watt Min	
Power Gain	58 dB Min	Pin=0dBm for nominal Pout
Power Gain Flatness	3.0 dB p-p Max	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD / IP3)	-20 dBc Typ	48dBm/Tone, Δ = 1MHz
Noise Figure	8 dB Max	At full gain
Harmonics	-20 dBc Max	
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	180 - 240 VAC Single Phase	50/60Hz
Power Consumption	4000 Watt Max	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	6 : 1 Max	Auto shutdown at >6 : 1 load VSWR

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

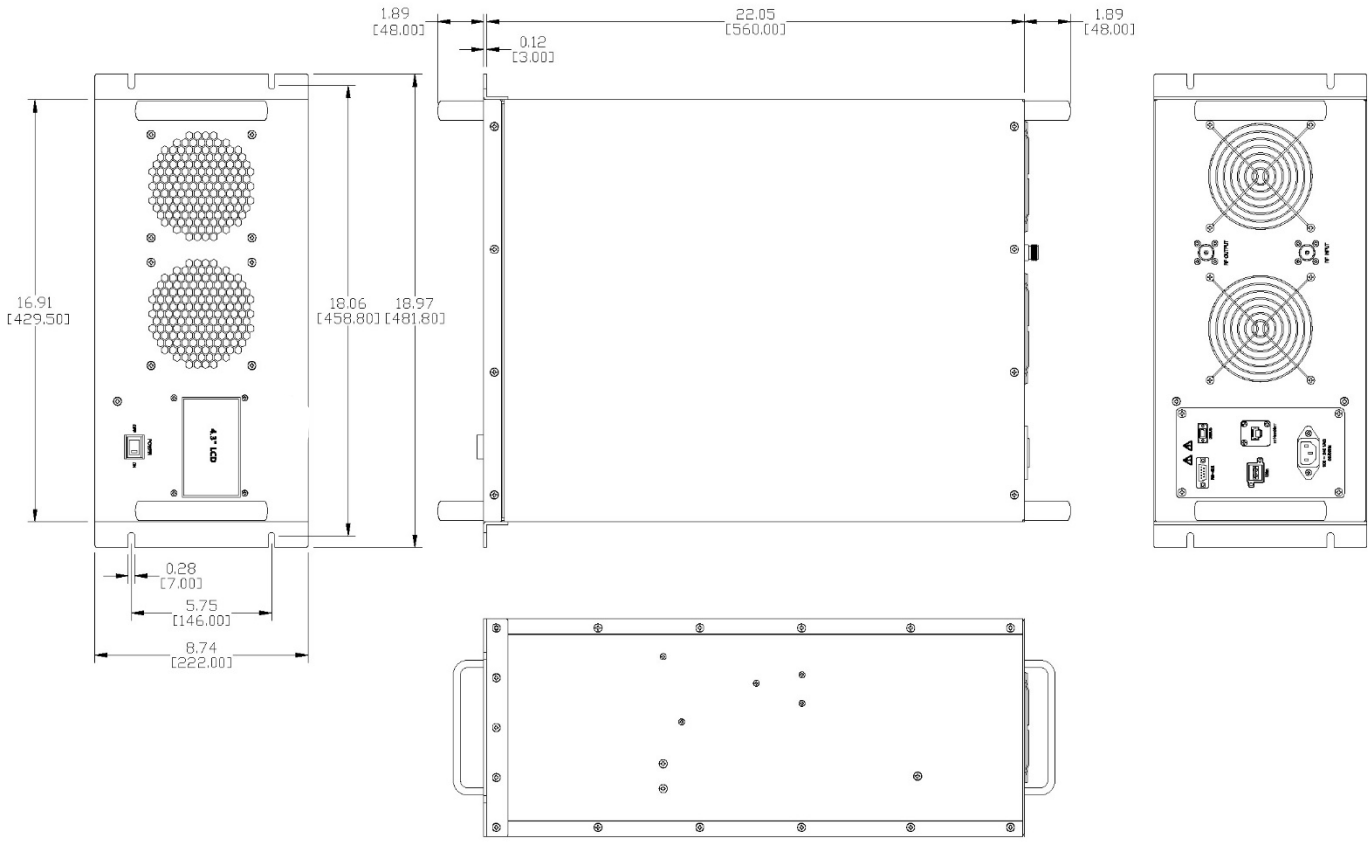
Parameter	Specification	Notes
Dimensions W x H x D	430 x 222 x 560 mm	5U excluding handles
Weight	40 Kg. Max	
RF Connectors In/Out	Type-N Female	Front or rear panel
AC Power / Monitoring Connectors	IEC 60320-C14 / 9 Pin D-Sub	Or equivalent
Safety Interlock Connector	15-Pin Subminiature D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS-232, USB Optional GPIB/IEEE Interface	

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

Communications Corp.

HD32045
SOLID STATE HIGH POWER AMPLIFIER

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