HD Communications Corp.

HD32819
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 6.0 GHz	
Power Output @ Psat	100 Watt Min	CW
Power Gain	50 dB Min	
Power Gain Flatness	3 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	
Input / Output Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	40dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	100 - 240 VAC	
Power Consumption	600 Watt Max	At rated output
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	5: 1 Max	<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
Shock & Vibration	MIL-STD-810E	Designed to meet

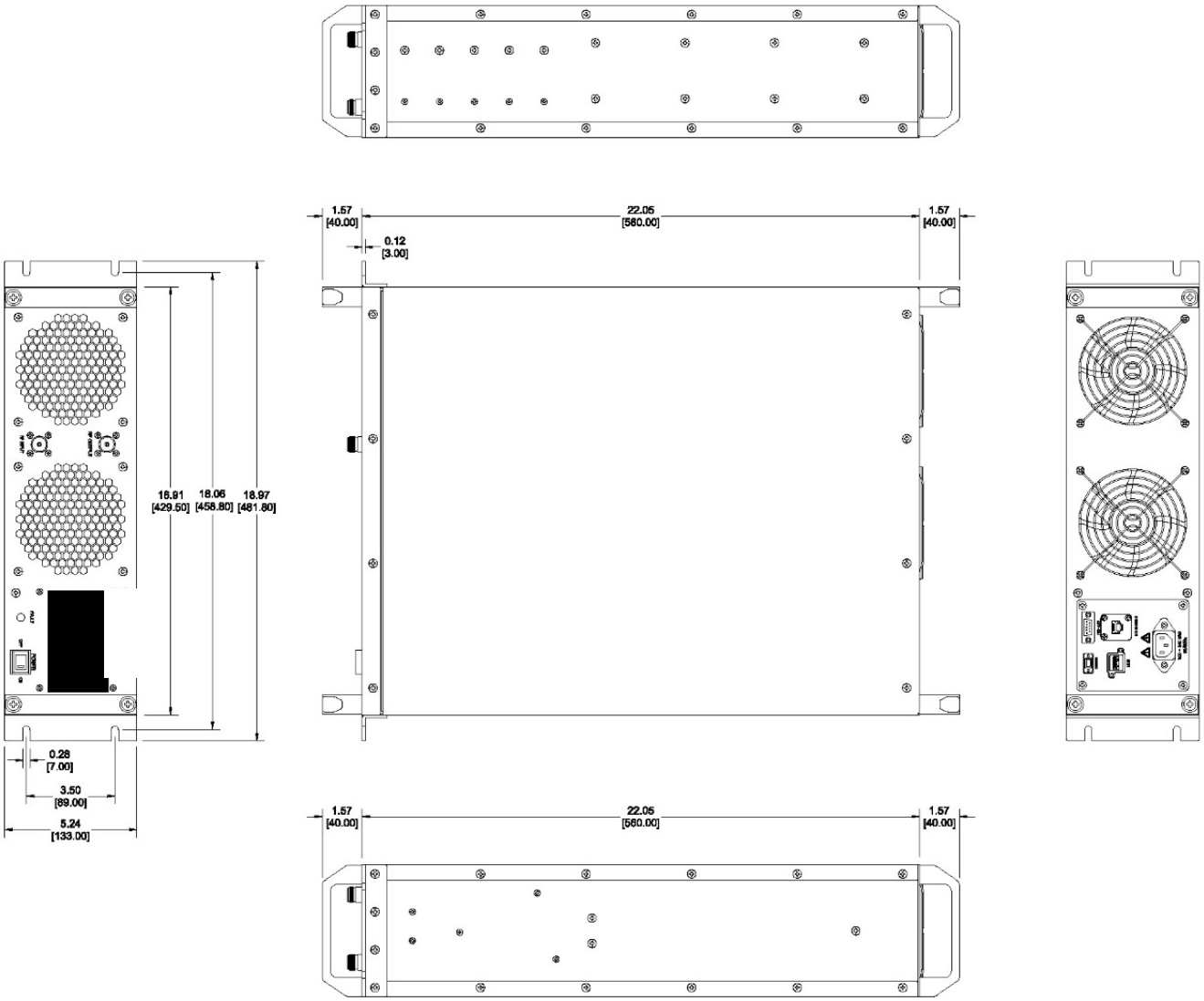
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133.3 x 560 mm	3U - excluding handles
Weight	25 Kg. Max	
RF Connectors In / Out / Sample Port	Type-N Female / SMA-F	Front or rear panel
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
STANDARD: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

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

HD32819
SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING - Shown with Optional LCD Controller



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