HD Communications Corp.

HD33381
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear GaAsFET design
Instantaneous wide bandwidth
Designed for EMI/RFI, lab, and general communication applications
Suitable for all single channel modulation standards
Rack mounted system
Local LCD & remote flexible interfaces
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	18.0 - 26.5 GHz	
Power Output CW	40 Watt Min	
Power Gain	46 dB Min	
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	36dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Max	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	800 Watt Max	
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	Auto shutdown >5:1 load VSWR
Sample Port Coupling	-30 to -40 dB	Optional - SMA-F

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

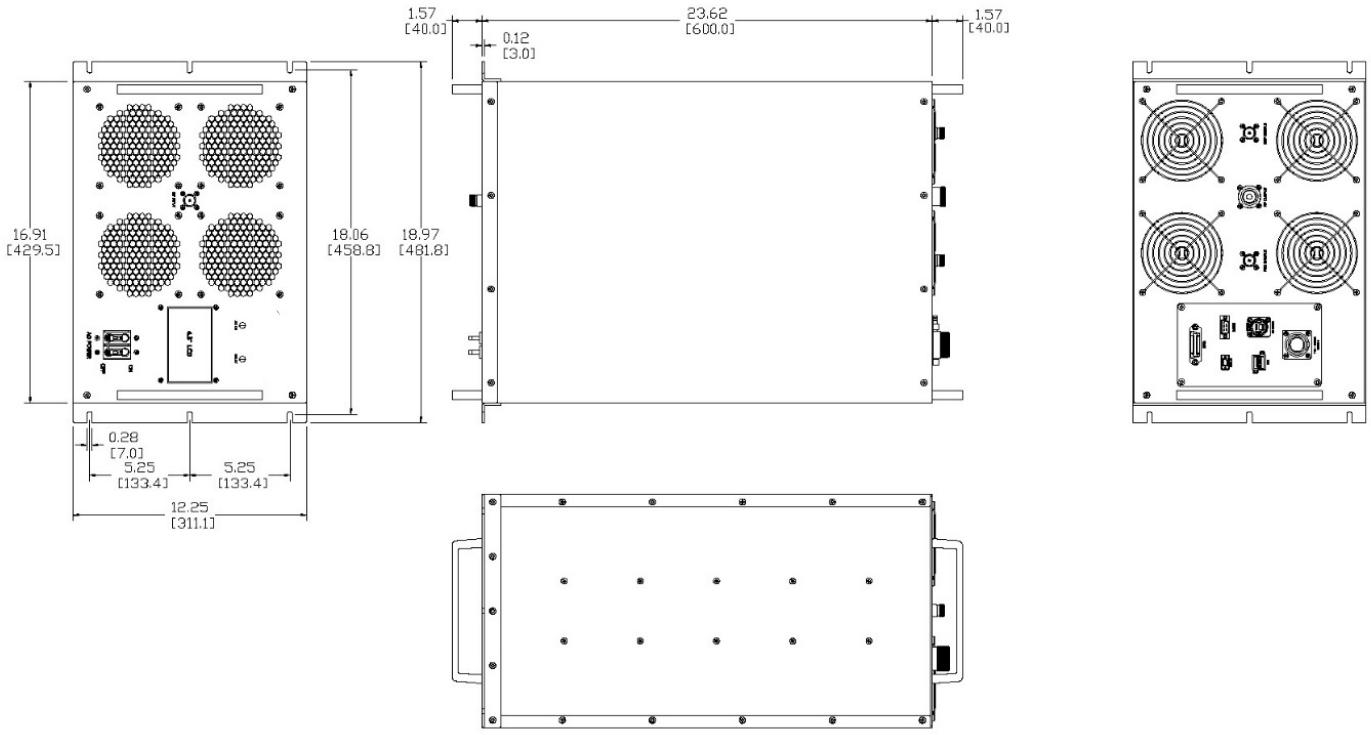
Parameter	Specification	Notes
Dimensions W x H x D	430 x 311 x 600 mm	7U - Excluding handles
Weight	40 Kg. Nom	
RF Connectors In / Out / Sample Port	2.9 mm (K / air type) Female	Rear or Front panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Liquid Cooled	Built in pump
EMI SERIES: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 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

Communications Corp.

HD33381
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