HD33338
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.



FEATURES

Rack mounted system
Class AB linear LDMOS design
High power UHF narrow-band
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification		Notes
Model	**HD33338**	**HD33338A**	
Operating Frequency Range	500 MHz ±1 MHz Nom		
Power Output @ Saturation	1 KW Min	2K W Min	CW
Power Gain	60 dB Min	63 dB Min	0 dBm for Nom Pout
Gain Variation Over Temperature	±1.0 dB Max		
Input / Output Return Loss	-10 dB Max		Relative to 50 Ohm
3rd Order Intercept Point (IP3)	+65 dBm	+68 dBm	@ IMD = -30dBc
Harmonics	-20 dBc Max		At rated output
Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	220 VAC Nom		
Power Consumption	4 KW Max	7 KW Max	At rated output
Input Power Protection	+5 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

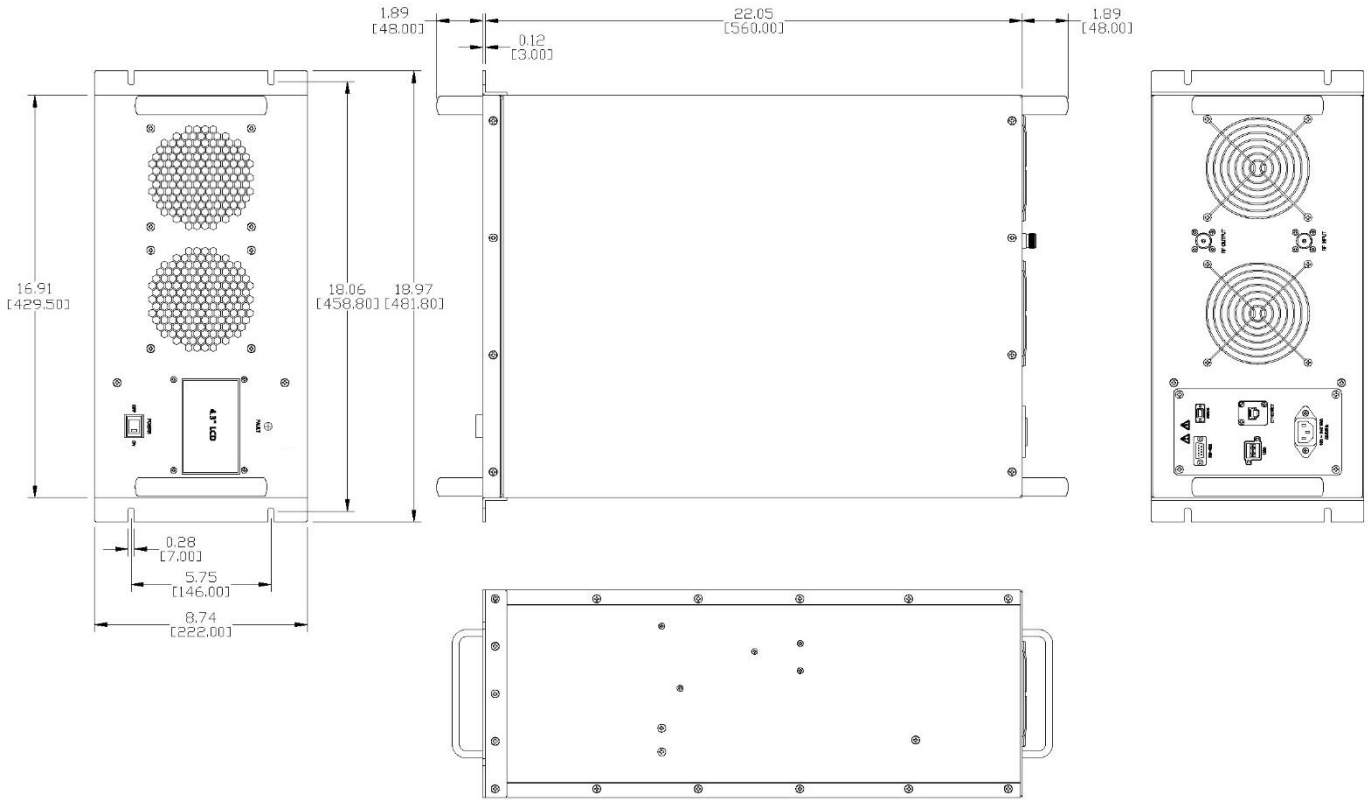
MECHANICAL SPECIFICATIONS

Parameter	Specification		Notes
Dimensions W x H x D	4U	5U	Rack mounted chassis
Weight	35 Kg. Max		
RF Connectors In/Out	Type-N Female / 7/16 DIN		Front or rear panel
AC Power / Interface	MS Type / 9-Pin D-Sub		Or equivalent
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

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OUTLINE DRAWING



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