HD31183
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

Rack mounted system
Class AB solid-state linear design
Instantaneous wide bandwidth
Suitable for all modulations standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	500 - 2500 MHz Min	
Power Output	200 Watt Min	CW
Power Gain	53 dB Min	
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
3rd Order Intercept	+58 dBm Typ	
Harmonics	20 dBc Typ	At rated Pout
Non Harmonics Spurious	60 dBc Min	
Operating Voltage	100 - 240 VAC	
AC Power Consumption	1500 Watt Max	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	∞ : 1	

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 and Vibrations	Normal truck transport	
Altitude	10,000 feet Min	

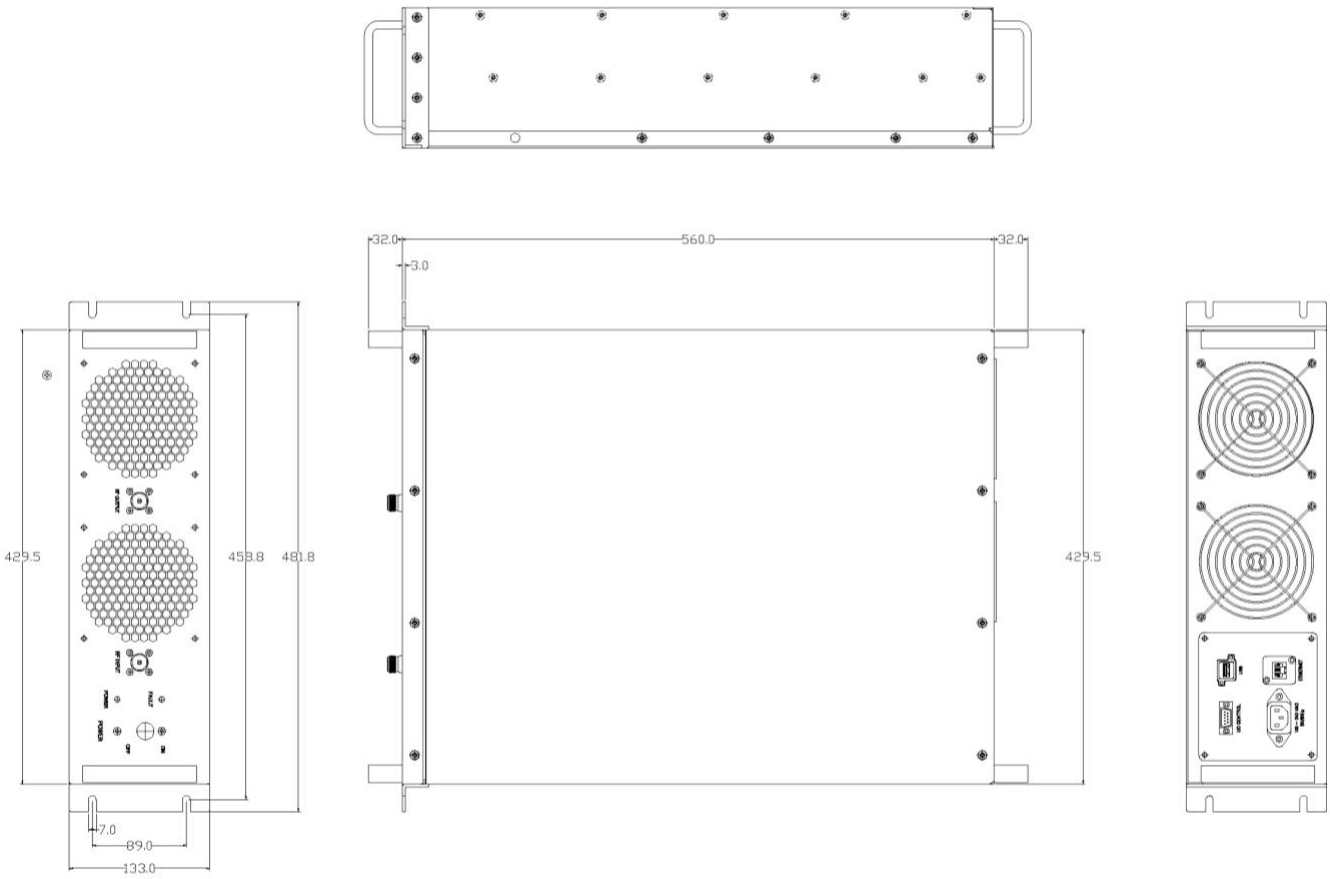
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U, excluding handles
Weight	20 kg.	
RF Connectors In / Out	Type-N Female	Front Panel Standard
Forward / Reflected Sample Ports	Type-N Female	
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 **Optional GPIB Interface**	Remote Bluetooth application

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OUTLINE DRAWING



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