HD32151
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

Rack mounted system
Class AB linear GaAsFET design
Instantaneous bandwidth
Suitable for all single channel modulations standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	33 - 35 GHz	
Power Output CW	60 Watt Typ	CW
Power Output @ P1dB	30 Watt Typ	
Power Gain	48 dB Min	
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	38dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	2000 Watt Max	At rated Pout
Max Input Power Protection	+3 dBm	<10 Seconds without damage
Load VSWR Protection	5 : 1	<1 Minute @ rated output

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensation

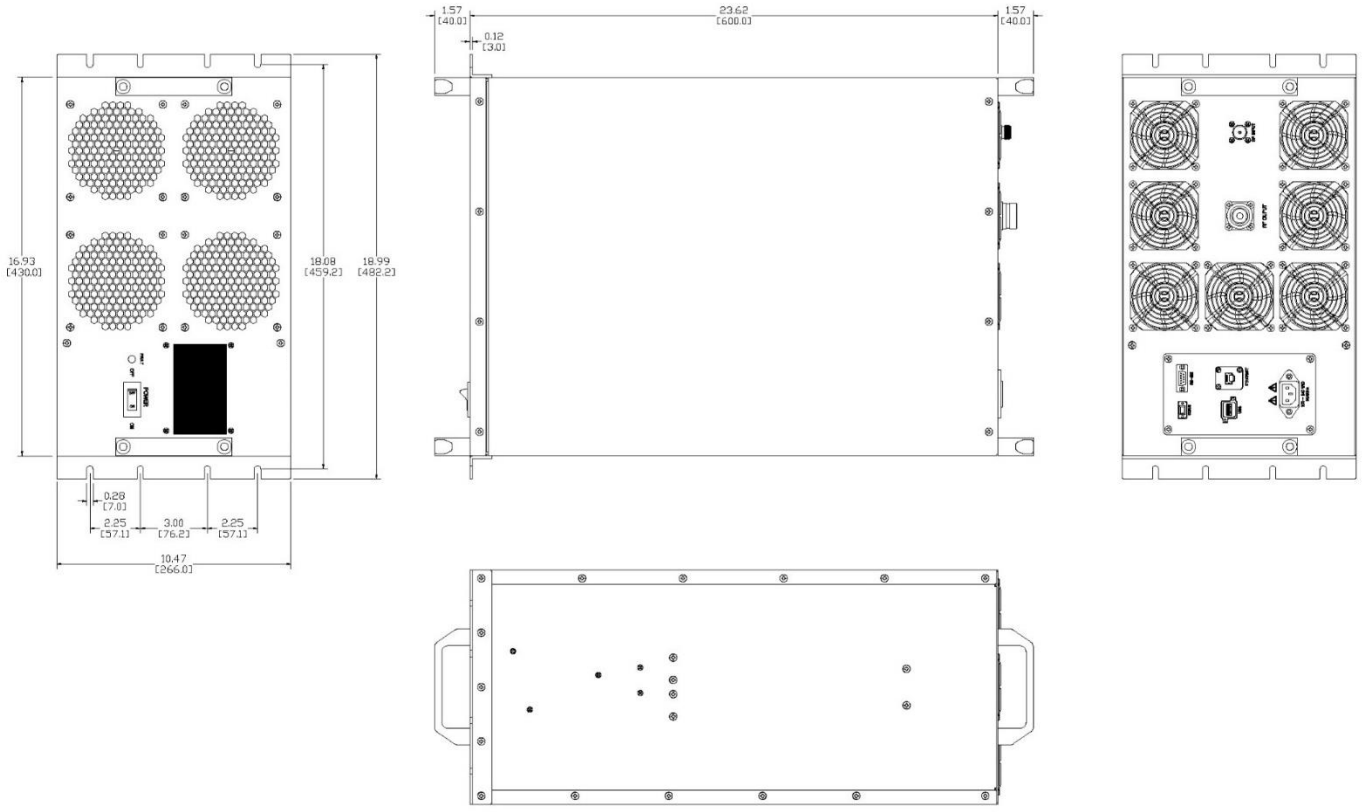
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	6U Rack Mount Chassis	6U
Weight	90 lb Typ.	
RF Connectors In/Out	2.9 mm (K / air type) Female	WR28 output may be required for 60Wpower handling
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS232/422/485	

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OUTLINE DRAWING (For Dimension Verification Only)



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