HD31012
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

Rack mounted system
Class AB linear GaN hybrid design
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness
Local and remote microprocessor controller



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	10 GHz ±0.25 GHz	
Power Output @ Psat	150 Watt Min	CW
Power Gain	52 dB Min	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	42dBm/Tone, Δ = 1MHz
Harmonics	-30 dBc Min	At rated Pout
Non Harmonics Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	950 Watt Max	At rated Pout
Max Input Power	+5 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

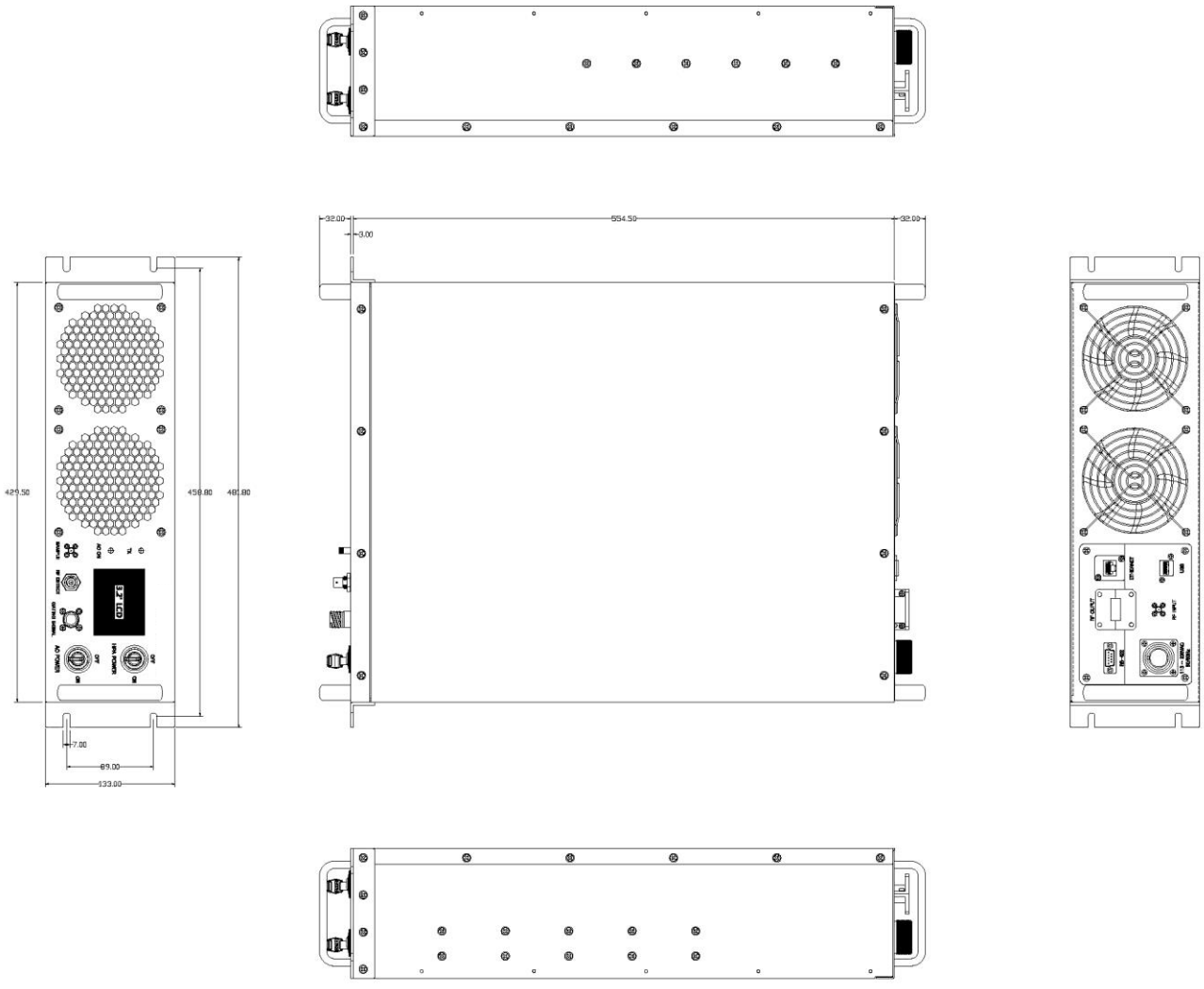
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U
Weight	20 kg. Max	
RF Connectors In/Out	SMA female / Waveguide	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, 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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