HD Communications Corp.

HD31718
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB linear GaN 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	0.8 - 3.0 GHz	
Power Output	220 Watt Min	CW
Power Output @ P1dB	200 Watt Min	
Power Gain	53 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	43dBm/Tone, Δ = 1MHz
Harmonics	>20 dBc Typ	13dBc Typ below 1.5GHz
Non Harmonics Spurious	60 dBc Min	
Operating Voltage	100 - 240 VAC	
Power Consumption	1600 Watt Max	At rated Pout
Max Input Power Protection	+8 dBm	Without damage for 1 minute
Load VSWR Protection	∞ : 1	Without damage for 10 sec.

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

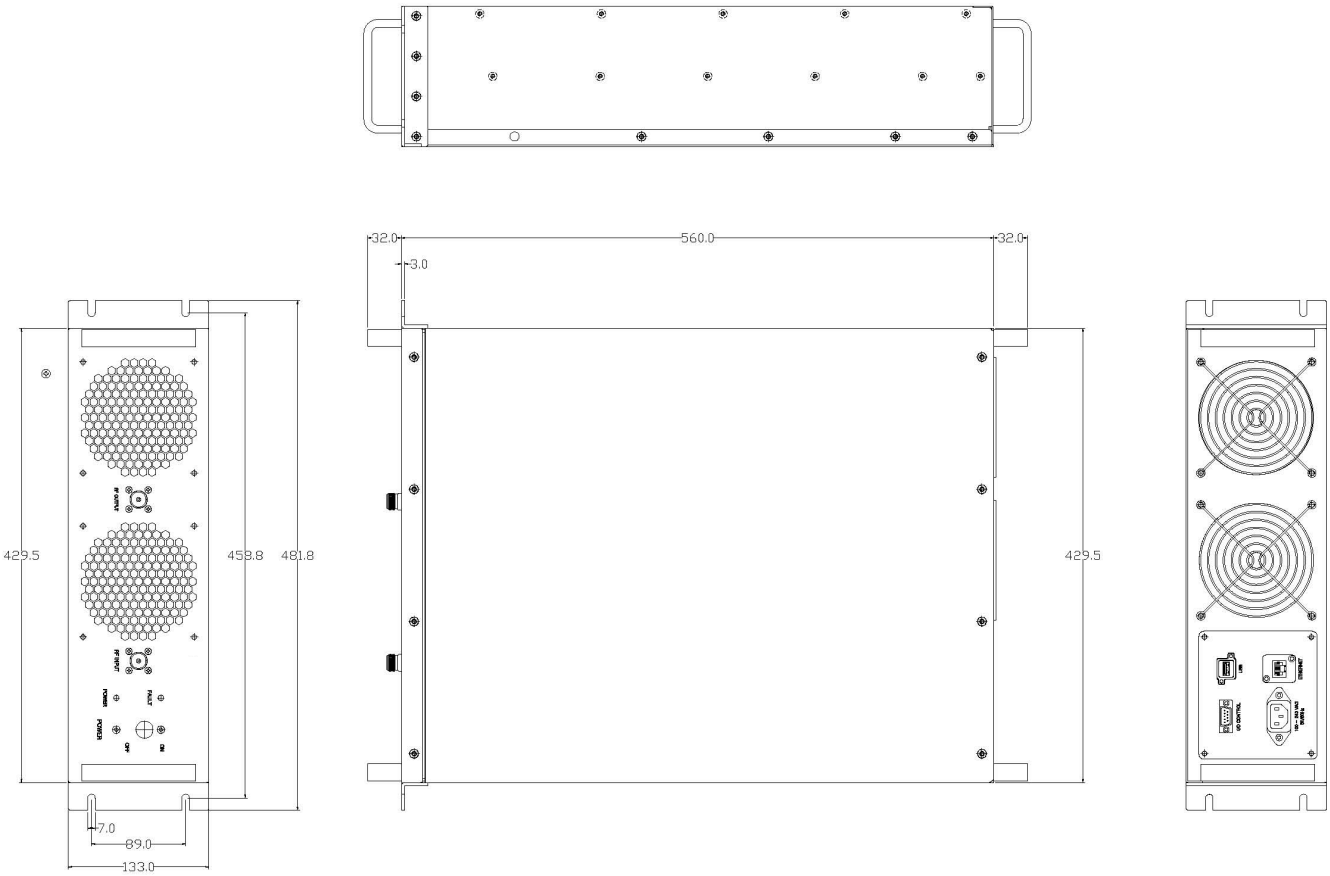
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm (19 x 5.25 x 22 inches)	3U
Weight	20 kg.	
RF Connectors In / Out	Type-N Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, GPIB Interface	Remote Bluetooth application

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OUTLINE DRAWING



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