HD31122
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Small and light weight bench-top chassis
Class AB linear GaN design
Ultra-broadband
Suitable for all modulations standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1-20 GHz	
Power Output @ Psat	3 Watt Min / 4Watt Typ	3W Typ @ 19-20GHz
Power Output @ P1dB	1 Watt Typ	
Power Gain	36 dB Min	34dB Min @ 19-20GHz
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	25dBm/Tone, Δ = 1MHz
Harmonics	>20dBc Typ	At rated Pout
Non Harmonics Spurious	>60 dBc	
Operating Voltage	100 - 240 VAC	
Power Consumption	50 Watt Max	At rated Pout
Max Input Power	+5dBm	Without damage
Load VSWR Protection	5 : 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 Condensation

MECHANICAL SPECIFICATIONS

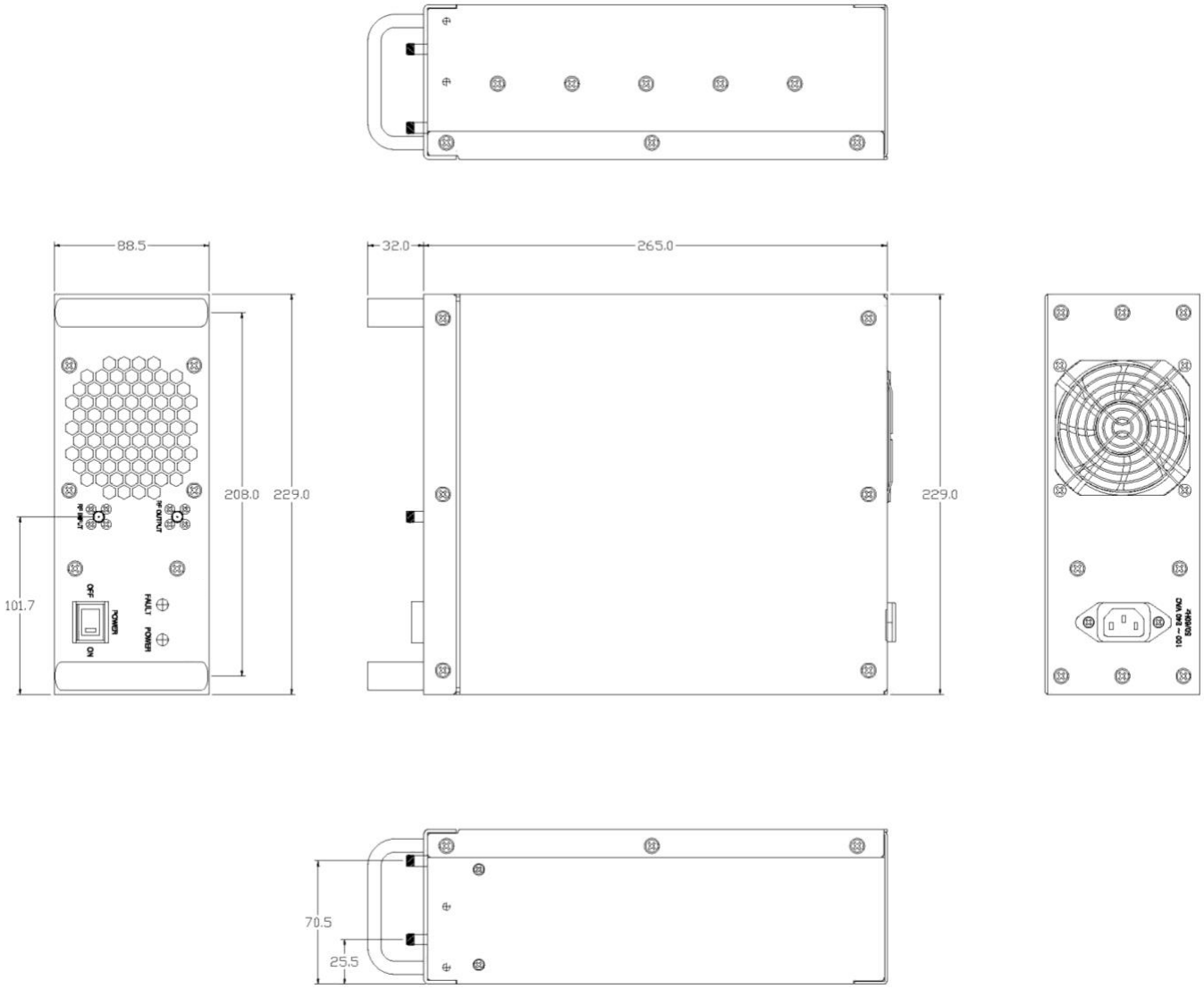
Parameter	Specification	Notes
Dimensions W x H x D	265 x 88 x 229 mm	Benchtop
Weight	8 kg.	
RF Connectors In/Out	Type-SMA Female	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, Optional GPIB Interface, remote Bluetooth available	Requires larger chassis

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Communications Corp.

OUTLINE DRAWING



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