HD31953
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Small and light weight bench top chassis
Class AB linear GaN hybrid design
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	21.70 GHz ±300 MHz	
Power Output @ P1dB GCP	1 Watt Min	CW
Power Gain	30 dB Min	
Power Gain Flatness	1.0 dB p-p Max	
Input Return Loss	12 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	20dBm/Tone, Δ = 1MHz
Harmonics	-30 dBc Typ	At rated Pout
Non Harmonics Spurious	-60 dBc Max	Non-harmonics
Noise Figure	10 dB Max	
Operating Voltage	100 - 240 VAC	50/60Hz
Power Consumption	20 Watt Max	At rated Pout
Max Input Power Protection	+8 dBm	<10 Sec without damage
Load VSWR Protection	5 : 1	<1 minute @ rated Pout

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

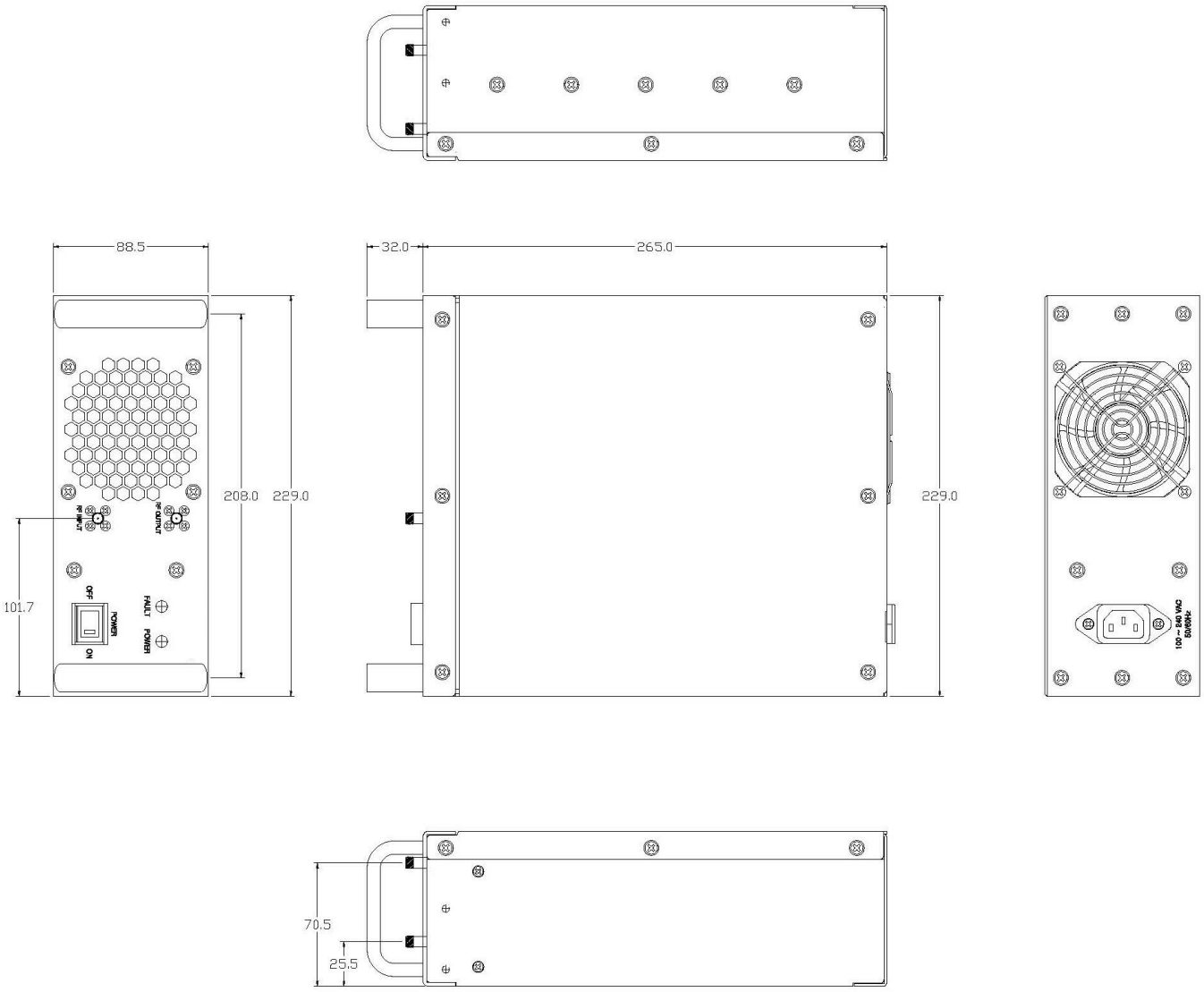
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	265 x 88 x 229 mm	Bench top
Weight	7 kg.	
RF Connectors In/Out	Type-N Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	

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OUTLINE DRAWING



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