HD Communications Corp.

HD32117 & HD32117A
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Small form factor Bench-Top chassis
Class AB linear GaAsFET design
Instantaneous wide bandwidth
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification		Notes
Operating Frequency Range	HD32117 18 - 26.5 GHz	HD32117A 26 - 40 GHz	
Power Output CW	5 Watt Min		CW
Power Output @ P1dB	3Watt Typ		
Power Gain	37 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		27dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ		At rated Pout
Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	100 - 240 VAC		
Power Consumption	120 Watt Max		At rated Pout
Max Input Power	+3 dBm		<10 Sec without damage
Load VSWR Protection	5 : 1		<1 minute at 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

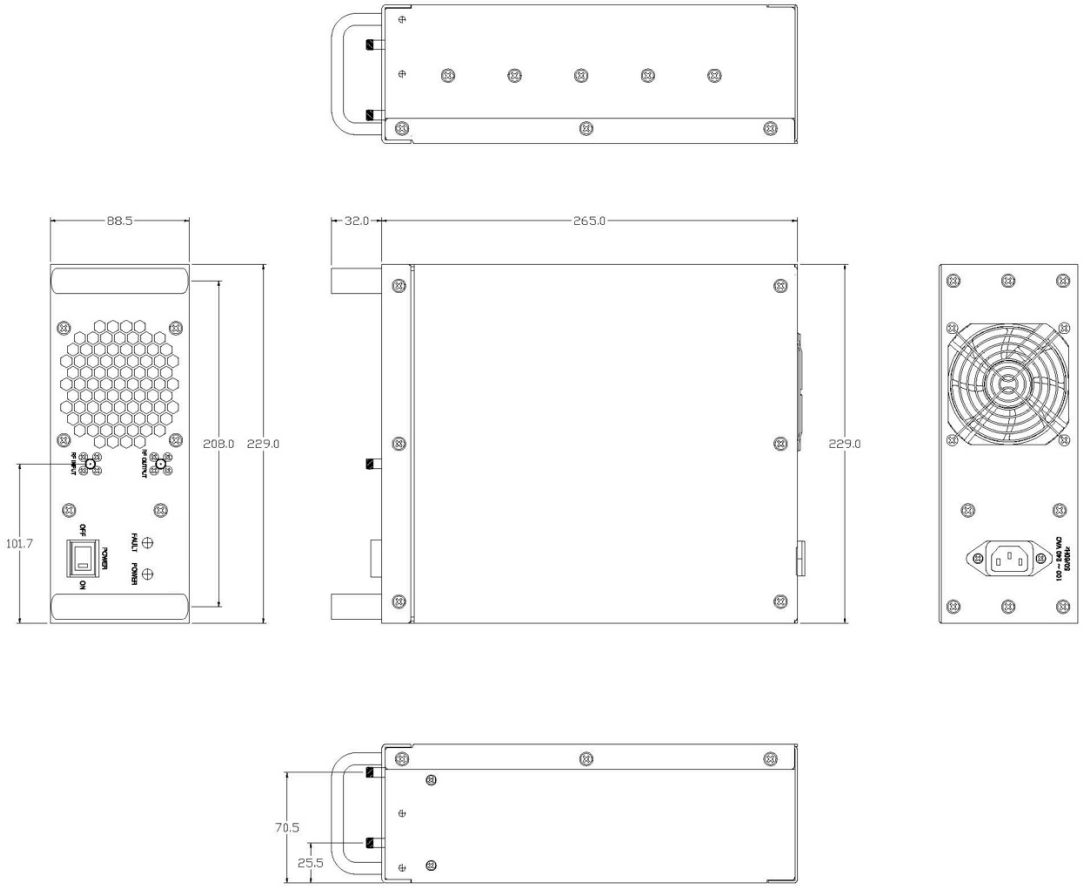
Parameter	Specification	Notes
Dimensions W x H x D	265 x 88 x 229 mm	2U Benchtop
Weight	8 kg.	
RF Connectors In/Out	2.9 mm (K / air type) Female	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Only available in a 2U chassis

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BENCH TOP CHASSIS



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