HD31014
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	18 - 26.5GHz	
Power Output @ Psat	4 Watt Min / >5 Watt Typ	CW
Power Gain	37 dB Min	
Power Gain Flatness	5.0 dB p-p Max	At rated Pout
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	<-30 dBc Typ	26dBm/Tone, Δ = 1MHz
Harmonics	<-25 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Noise Figure	10 dB Max	
Operating Voltage	100 - 240 VAC	50/60Hz
Power Consumption	100 Watt Max	At rated Pout
Input Power Protection	+5 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<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-condensing

MECHANICAL SPECIFICATIONS

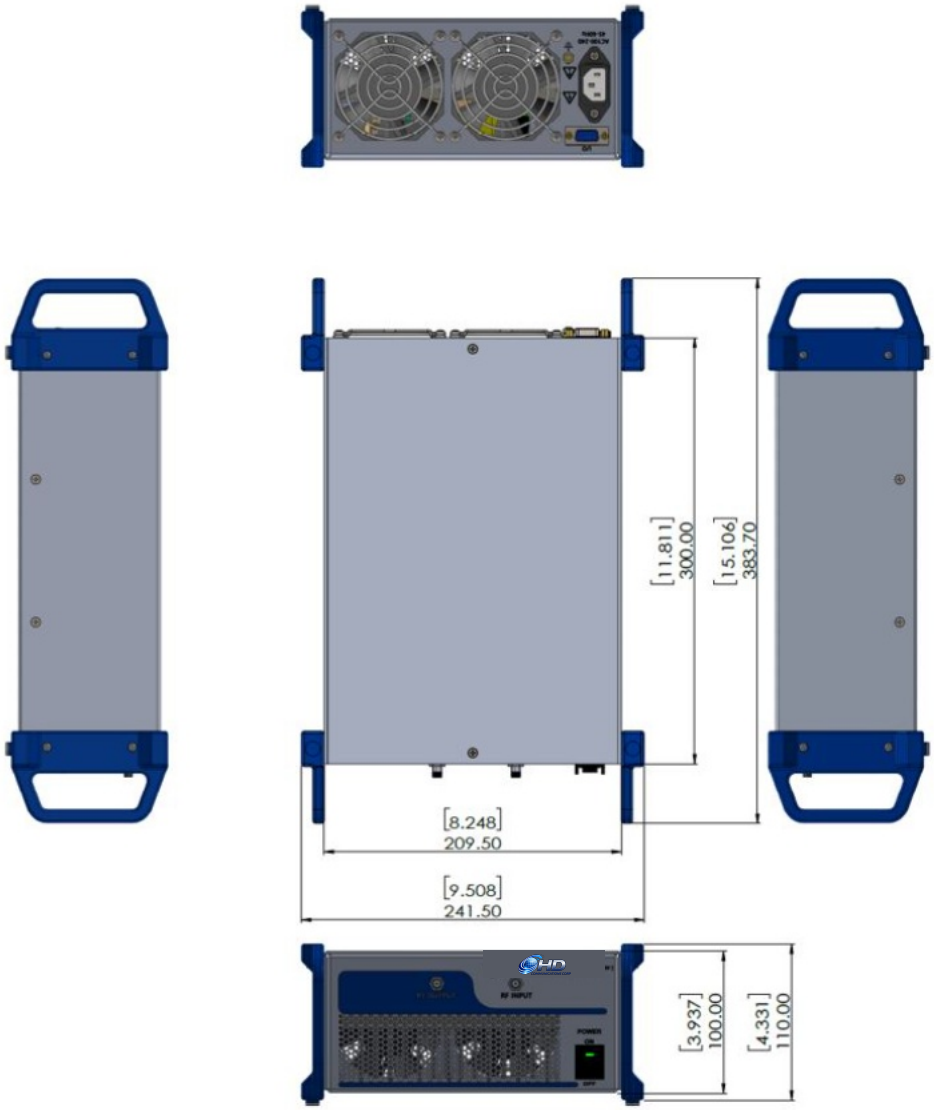
Parameter	Specification	Notes
Dimensions W x H x D	210 x 100 x 300 mm	Excluding brackets
Dimensions W x H x D (Benchtop)	242 x 110 x 384 mm	Including brackets
Weight	7 kg.	
RF Connectors In/Out	SMA Female	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control (DMC) FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, **OPTIONAL**: Safety Interlock	Ethernet RJ-45 TCP/IP, RS422/485, USB Open=STBY/Short=RFON	Requires larger 3U chassis. BNC Female on rear panel

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Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

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OUTLINE DRAWING



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