HD35244
SOLID STATE MEDIUM POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications.
Small form factor, Bench Top system
Class A linear advanced technology design
Suitable for all single channel modulation standards
Instantaneous ultra-broad bandwidth
Built-in protection circuits
Universal voltage AC power supply
High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	41 - 47 GHz	
Power Output @ Psat (CW)	2 Watt Min	<0 dBm for rated Pout
Output Power @ P1dB	1 Watt Typ	
Linear Gain	33 dB Min	0dBm or less for rated Pout
Power Gain Flatness	±2.0 dB Max	Constant input power
Input Return Loss	-10 dB Max	
Noise Figure	12 dB Max	
Harmonics	-20 dBc Max	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	47 - 63Hz
Power Consumption	100 Watt Max	At rated Pout
Input Power Protection	+3 dBm Max	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 +70 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport	

MECHANICAL SPECIFICATIONS

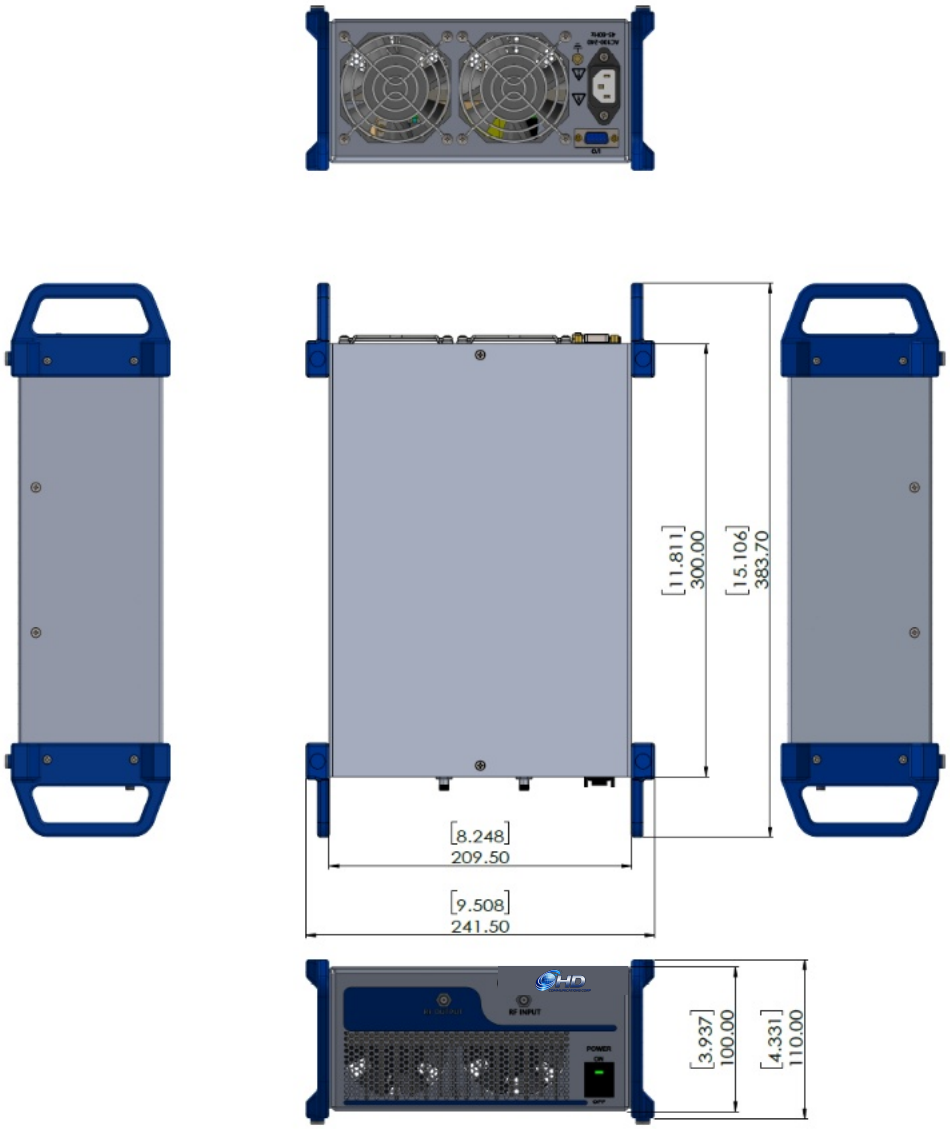
Parameter	Specification	Notes
Dimensions W x H x D Benchtop	210 x 100 x 300 mm 242 x 110 x 384 mm	Excluding brackets Including brackets
Weight	6 kg.	
RF Connectors In/Out	N Female or SMA Female	Front panel standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built 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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