# HD31125
# SOLID STATE HIGH POWER AMPLIFIER

**FEATURES**

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



**ELECTRICAL SPECIFICATIONS** : 50Ω, 25°C

| Parameter | Specification | Notes |
|---|---|---|
| Operating Frequency Range | 6.0 - 18.0 GHz | |
| Power Output | 10 Watt Min | Saturated CW |
| Power Gain | 40 dB Min | |
| 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 | 33dBm/Tone, Δ = 1MHz |
| Harmonics | -20 dBc Typ | At rated Pout |
| Spurious | -60 dBc Max | Non-harmonics |
| Operating Voltage | 100 - 240 VAC | |
| Power Consumption | 150 Watt Max | At rated Pout |
| Input Power Protection | +5 dBm Max | <10 Seconds without damage |
| Load VSWR Protection | ∞ : 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-condensing |

**MECHANICAL SPECIFICATIONS**

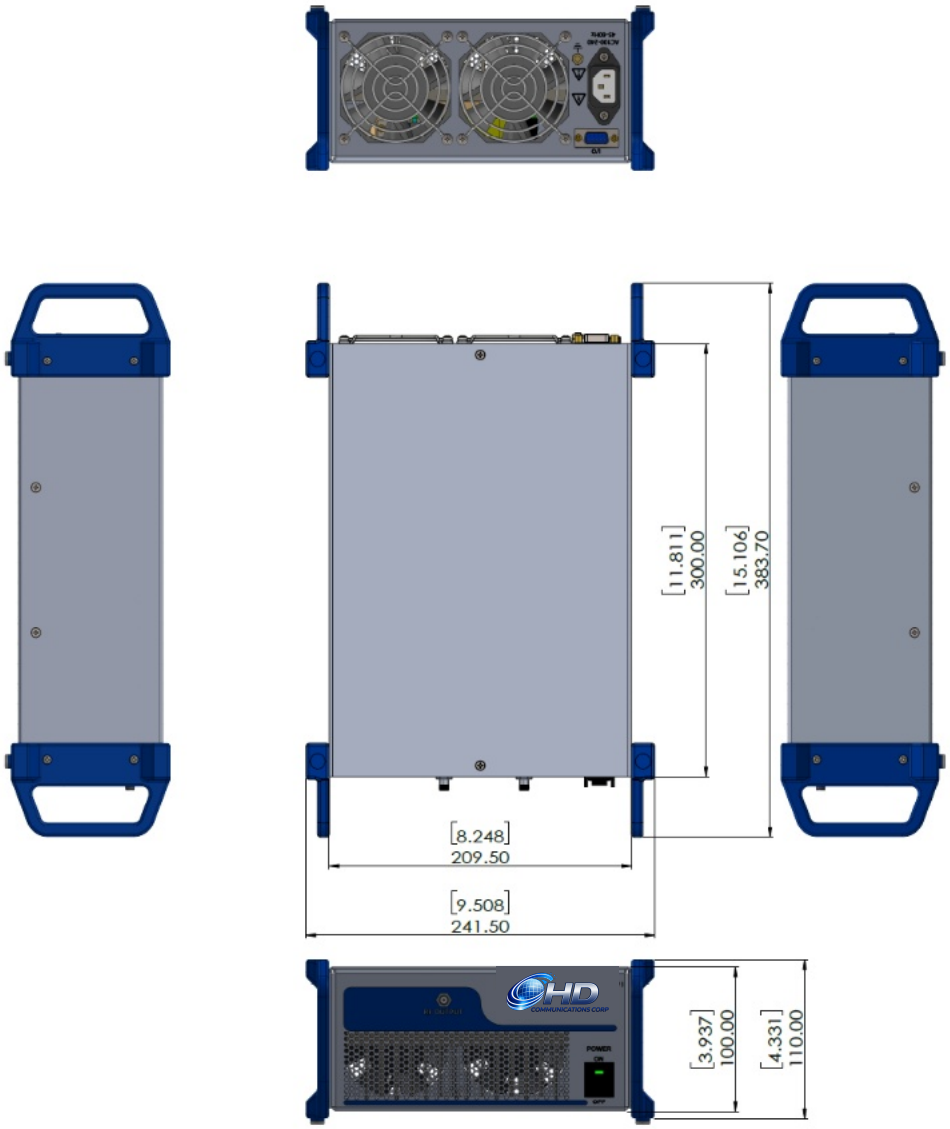
| Parameter | Specification | Notes |
|---|---|---|
| Dimensions W x H x D<br>Benchtop | 210 x 100 x 300 mm<br>242 x 110 x 384 mm | Excluding brackets<br>Including brackets |
| Weight | 8 Kg. | |
| RF Connectors In/Out | Type-N Female | Front Panel Standard |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub | |
| Cooling | Built in Fan Cooling | |
| **OPTIONAL:** Digital Monitor & Control (DMC)<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP,<br>**OPTIONAL**: Safety Interlock | Ethernet RJ-45 TCP/IP, RS422/485, USB<br>Open=STBY/Short=RFON | Requires larger 3U chassis.<br>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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