HD Communications Corp.

# HD33451
# SOLID STATE HIGH POWER AMPLIFIER

**FEATURES**

Rack mounted system
Designed for X-Band linear applications
Class AB Solid-State linear hybrid 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 | 13.75 - 14.5 GHz | |
| Power Output @ Psat | 50 Watt Min | CW |
| Power Output @ P1dB GCP | 40 Watt Min | CW |
| Power Gain | 47 dB Min | Gain adjust |
| Power Gain Flatness | 2 dB p-p Max | Constant input power |
| Input / Output Return Loss | -10 dB Max | Relative to 50 Ohm |
| 2-Tone Intermodulation (IMD) | -30 dBc Typ | 37dBm/Tone, Δ = 1MHz |
| Harmonics | -30 dBc Min | At rated output power |
| Spurious | -60 dBc Max | Non-harmonics |
| Operating Voltage | 100 - 240 VAC | 40VDC option available |
| Power Consumption | 600 Watt | At rated Pout |
| Input Power Protection | +5 dBm Max | <10 Sec at without damage |
| Load VSWR Protection | 5 : 1 | Output isolator option available for Infinite VSWR at rated output |

**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**

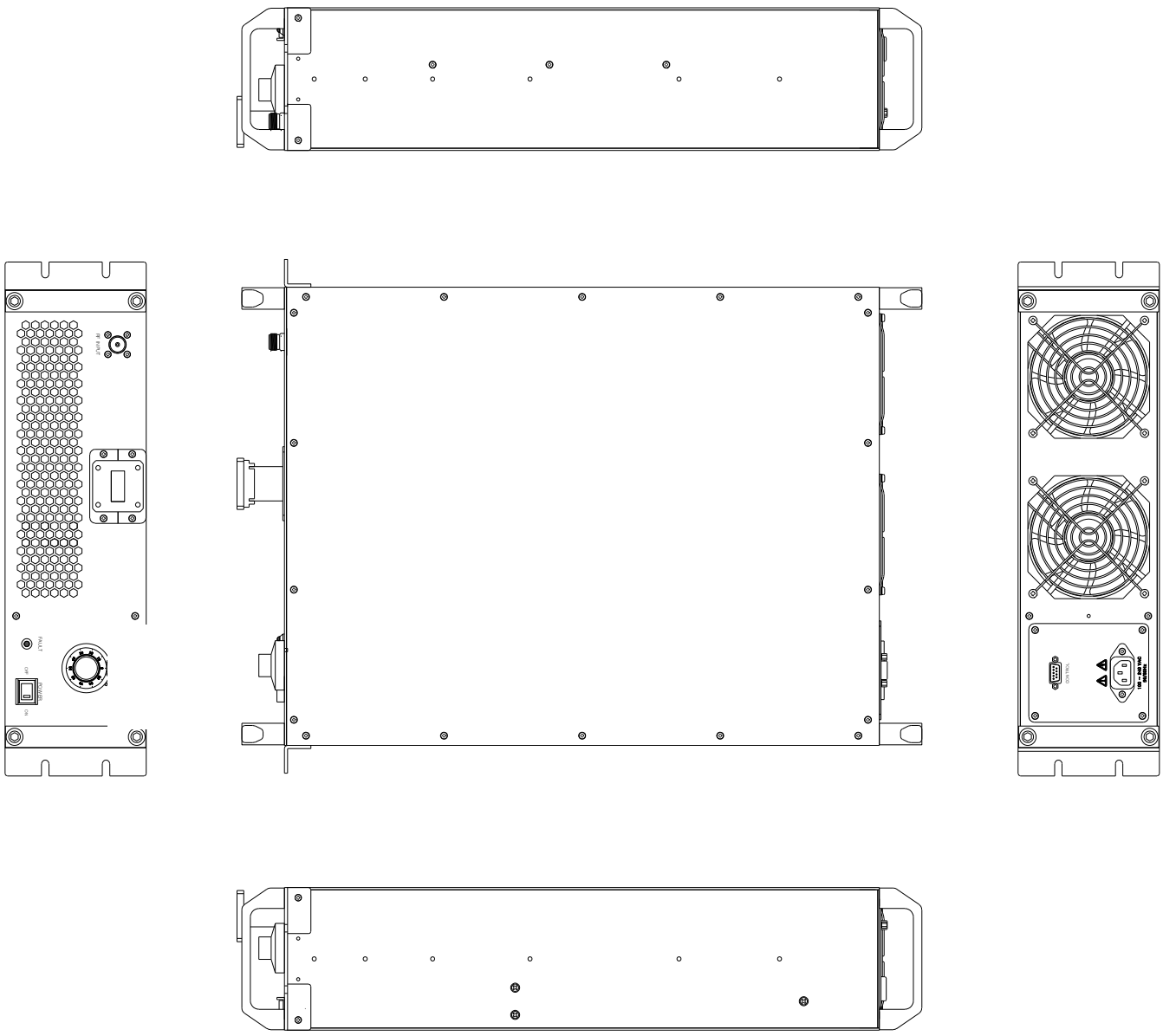
| Parameter | Specification | Notes |
|---|---|---|
| Dimensions W x H x D | 430 x 133 x 560 mm (19 x 5.25x 22.05 inch) | 3U - Without handles |
| Weight | 20 kg. | |
| RF Connectors In / Out | Type-N Female (or WG output) | Front panel |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub | |
| Cooling | Built in Fan Cooling | Variable speed |
| **OPTIONAL:** Digital Monitor & Control<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485<br>Optional GPIB Interface | Remote Bluetooth application |

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**OUTLINE DRAWING**



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