# HD31000
# SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

**FEATURES**

Rack mounted system
Class AB linear GaN 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 | 2.0 - 2.2 GHz | |
| Power Output | 100W Min | CW |
| Power Gain | 50 dB Min | |
| Power Gain Flatness | 2.0 dB p-p Max | Constant input power |
| Gain Variation Over Temperature | ±2.0 dB | |
| Input / Output Return Loss | 10 dB Min | Relative to 50 Ohm |
| 2-Tone Intermodulation (IMD) | -30 dBc Typ | 41dBm/Tone, Δ = 1MHz |
| Harmonics | -20 dBc Typ | At rated output power |
| Spurious | -60dBc Max | Non-harmonics |
| Operating Voltage | 100 - 240 VAC | |
| Power Consumption | 350 Watt | At rated Pout |
| Max Input Power | +10 dBm | Without damage |
| Load VSWR Protection | ∞ : 1 | |

**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**

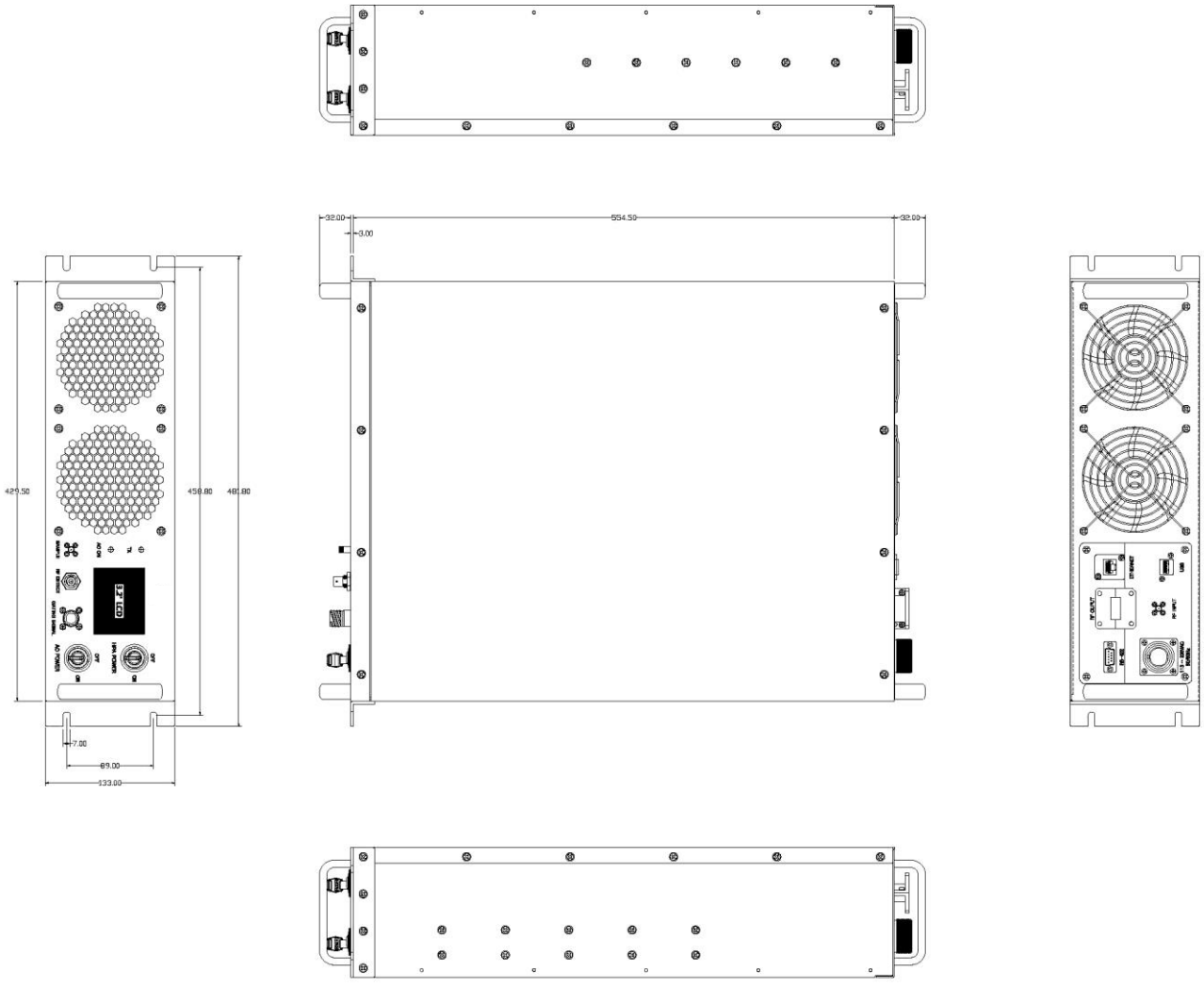
| Parameter | Specification | Notes |
|---|---|---|
| Dimensions W x H x D | 430 x 562 x 88 mm | 2U - Excluding handles |
| Weight | 10 kg. | |
| RF Connectors In / Out | Type-N Female | Front Panel Standard |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub | |
| Monitor & Control (Digital Control Option):<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | 1 Ethernet RJ-45 circular connector TCP/IP<br>1 RS422/485 D-Sub 9S port for redundancy | Remote Bluetooth application |
| Cooling | Built in Fan Cooling | Variable speed |

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

# HD31000
# SOLID STATE HIGH POWER AMPLIFIER

Communications Corp.

**OUTLINE DRAWING**




332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com