# HD32150
# SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.



**FEATURES**

Rack mounted system
Class AB linear LDMOS design
High power narrow-band
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 | 704 MHz ±1 MHz Nom | |
| Power Output @ Saturation | 2000 Watt Min | CW |
| Power Gain | 63 dB Min | |
| Gain Variation Over Temperature | ±1.0 dB Max | |
| Input / Output Return Loss | -10 dB Max | Relative to 50 Ohm |
| 2-Tone Intermodulation (IMD) | -30 dBc Max | 53dBm/Tone, Δ = 1MHz |
| Harmonics | -20 dBc Max | At rated output |
| Spurious | -60 dBc Max | Non-harmonics |
| Operating Voltage | 180 - 240 VAC | |
| Power Consumption | 5000 Watt Max | At rated output |
| 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 |

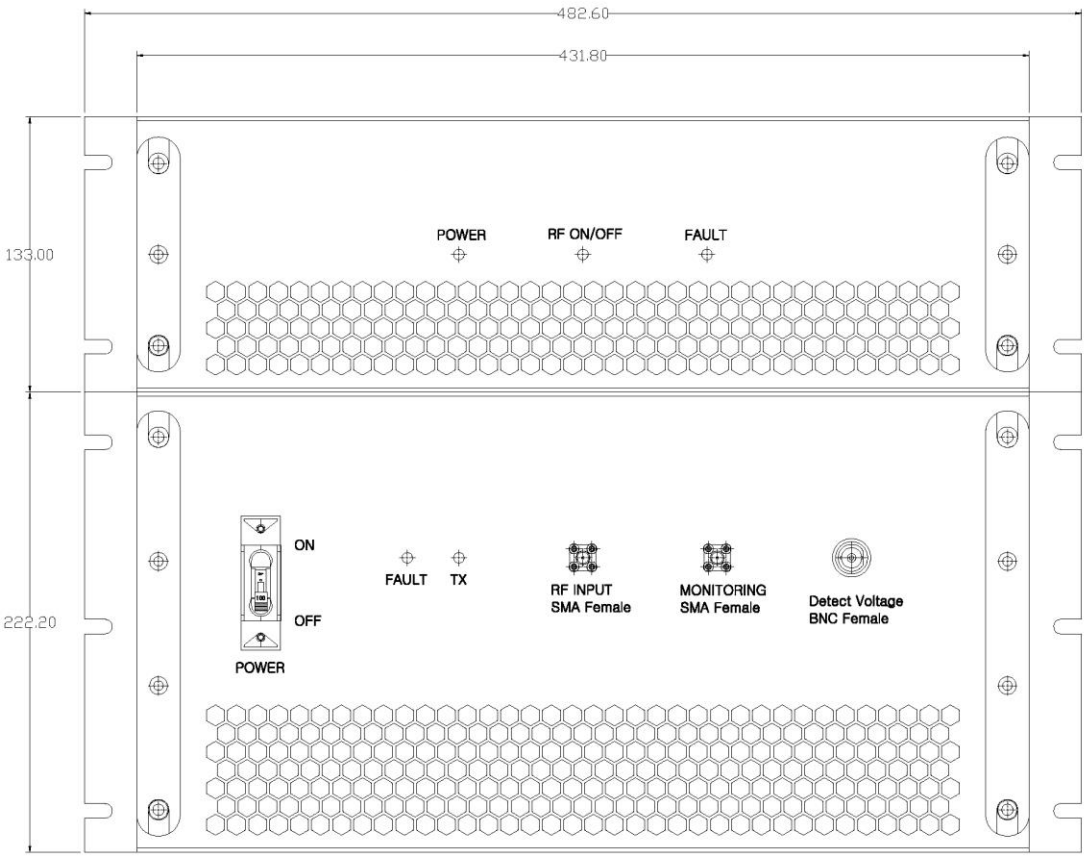
**MECHANICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Dimensions W x H x D | R5U + R3U | 8U Rack mount chassis |
| Weight | 60 Kg. Max | |
| RF Connectors In/Out | Type-N Female / 7/16 DIN | Front or rear panel |
| AC Power / Interface | MS Type / 9-Pin D-Sub | Or equivalent |
| 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, USB<br>Optional GPIB Interface | Remote Bluetooth application |

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**OUTLINE DRAWING (For illustration only)**




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