# HD32097
# SOLID STATE HIGH POWER AMPLIFIER

**FEATURES**

Rack mounted system
Class AB solid-state linear 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 | 1.2 - 1.6 GHz | Optimized 1222.5-1577.5MHz |
| Power Output | 200 Watt Min / 250 Watt Typ | 2 MHz BW (2048 kbps), BPSK 1/1 |
| Power Gain | 53 dB Min | |
| Power Gain Flatness | 3.0 dB p-p Max | Constant input power |
| Input Return Loss | 10 dB Min | Relative to 50 Ohm |
| 2-Tone Intermodulation | -30 dBc Typ | 43dBm/Tone, Δ = 1MHz |
| Harmonics | -20 dBc Max | At 150 Watt |
| Non Harmonics Spurious | -60 dBc Max | |
| Operating Voltage | 100 - 240 VAC | |
| Power Consumption | 1300 Watt Max | At rated Pout |
| Max Input Power | +10 dBm | Without damage |
| Load VSWR Protection | ∞ : 1 | 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 |
| Shock and Vibrations | Normal truck transport | |
| Altitude | 10,000 feet Min | |

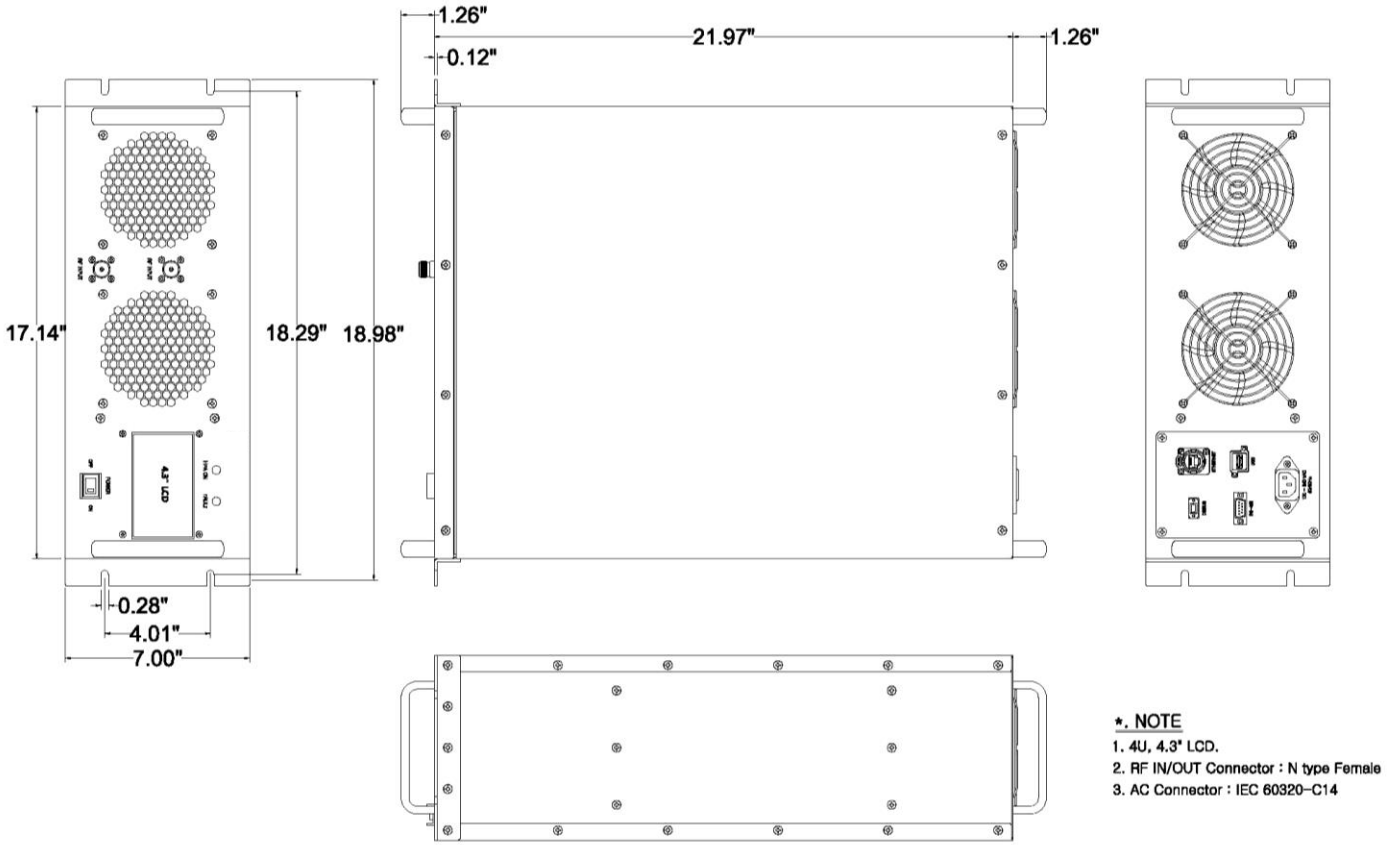
**MECHANICAL SPECIFICATIONS**

| Parameter | Specification | Notes |
|---|---|---|
| Dimensions W x H x D | 19” x 7” x 22” (483 x 178 x 560 mm) | R4U |
| Weight | 60 lb. Max | |
| RF Connectors In / Out | Type-N Female | Rear Panel |
| AC Power / Interface Connector | NEMA 5-15P or NEMA 5-20P | |
| Interface Connector | 9-Pin D-Sub | |
| Cooling | Built in Fan Cooling | Variable speed, Dust filters |
| Digital Monitor & Control<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485<br>Optional GPIB Interface | |

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

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**OUTLINE DRAWING**




★. NOTE
1. 4U, 4.3" LCD.
2. RF IN/OUT Connector : N type Female
3. AC Connector : IEC 60320-C14

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