# HD32831
# SOLID STATE HIGH POWER PULSE AMPLIFIER

Communications Corp.

**FEATURES**

Rack mounted system
Class AB solid-state linear pulse design
Suitable for S-Band high power pulse Applications
Stand Alone Amplifier or high power TWT Driver
Built-in protection circuits
High reliability and ruggedness



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

| Parameter | Specification | | | Notes | |
|---|---|---|---|---|---|
| Operating Frequency | 2.990 - 3.010 GHz | | | | |
| Power Output | 400 Watt Min | | | Peak Pulse | |
| Power Gain | 56 dB Min | | | | |
| Pulse Characteristics | **Width** | **Duty** | **PRF** | **Rise/Fall** | **Droop** |
| | 1 - 100 µS | 10 % Max | Up to 1.0KHz | <100 nS | <1 dB |
| Input Return Loss | -14 dB Max | | | Relative to 50 Ohm | |
| Output Power On/Off Ratio | -80 dB Max | | | TTL Gate Control | |
| Pulse to Pulse Amplitude stability | 0.1 dB Typ | | | | |
| Pulse Jitter | 2 nS Max | | | | |
| Harmonics | <-30 dBc Typ | | | At rated output power | |
| Operating Voltage | 100 - 240 VAC | | | | |
| Power Consumption | 200 Watt Avg. Max | | | @ 10% | |
| Input Power Protection | +8 dBm Max | | | <10 Sec without damage | |
| Load VSWR Protection | ∞ : 1 | | | Auto shutdown @ >5:1 | |

**ENVIRONMENTAL CHARACTERISTICS**

| Parameter | Specification | Notes |
|---|---|---|
| Operating Ambient Temperature | 0 to +50 °C | |
| Storage Temperature | -40 to +85 °C | |
| Relative Humidity | 5 to 95 % | Non-condensing |

**MECHANICAL SPECIFICATIONS**

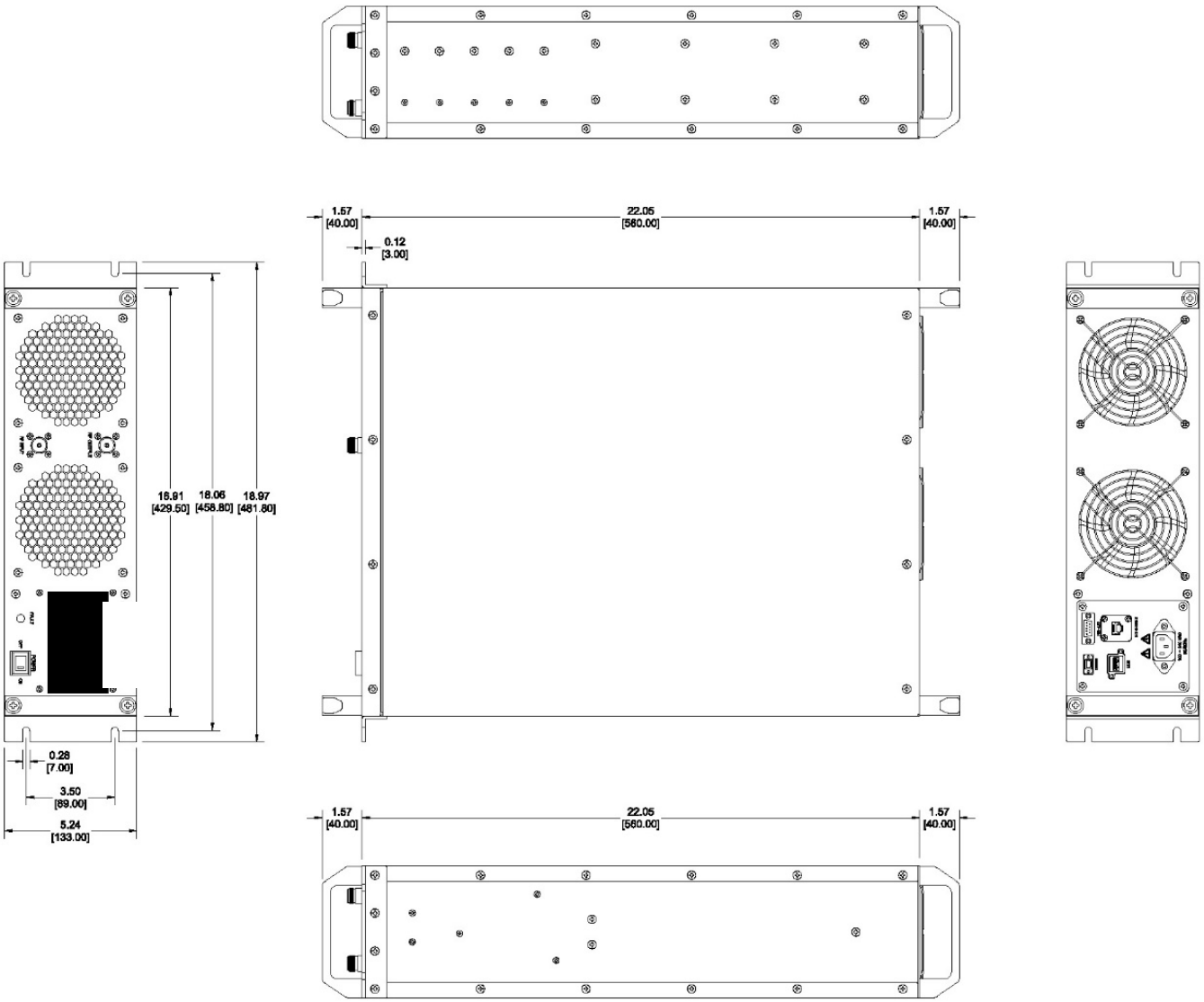
| Parameter | Specification | Notes |
|---|---|---|
| Dimensions W x H x D | 430 x 133.3 x 560 mm | 3U without handles |
| Weight | 20 kg. | |
| RF Connectors In / Out | Type-N Female | |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub | |
| Cooling | Built in Fan Cooling | Variable speed |
| **STANDARD:** Digital Monitor & Control LCD: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB | Remote Bluetooth application |

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## OUTLINE DRAWING





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