



# AMP2040A SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Rack mounted system
- Class A/AB linear LDMOS design
- Instantaneous ultra-wide bandwidth
- Designed for broadband EMI/RFI, Lab, NMR, Comm, and EW applications
- Suitable for CW, pulse and all single channel modulation standards
- Built-in protection circuits
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

| Parameter                    | Specification  | Notes                   |
|------------------------------|----------------|-------------------------|
| Operating Frequency Range    | 100 - 1000 MHz |                         |
| Power Output                 | 250 Watt Min   | CW & Pulse              |
| Power Output @ P1dB GCP      | 150 Watt Typ   |                         |
| Power Gain                   | 53 dB Min      |                         |
| Power Gain Flatness          | 3.0 dB p-p Max | Constant input power    |
| Input Return Loss            | -10 dB Max     | Relative to 50 Ohm      |
| 2-Tone Intermodulation (IMD) | -30 dBc Typ    | 43dBm/Tone, Δ = 1MHz    |
| Harmonics                    | -20 dBc Typ    | At rated output power   |
| Spurious                     | -60 dBc Max    | Non-harmonics           |
| Operating Voltage            | 100 - 240 VAC  |                         |
| Power Consumption            | 2000 Watt Max  | At rated Pout           |
| Input Power Protection       | +3 dBm Max     | <10 Sec without damage  |
| Load VSWR Protection         | 5 : 1 Max      | <1 minute at rated Pout |
| Blanking                     | 1 μS Typ       | 50 dB isolation Min     |

## ENVIRONMENTAL CHARACTERISTICS

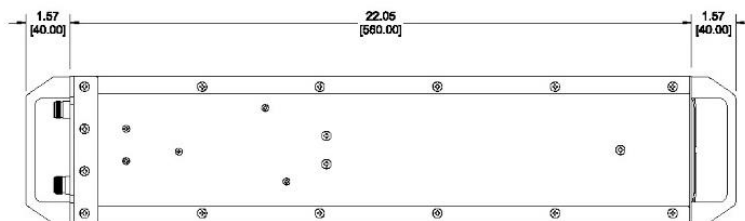
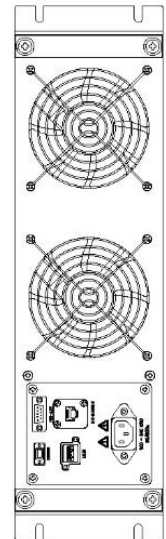
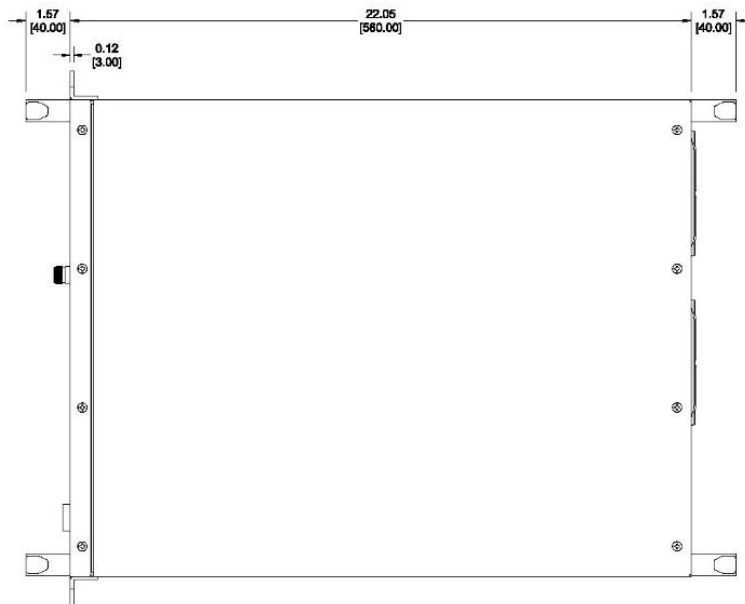
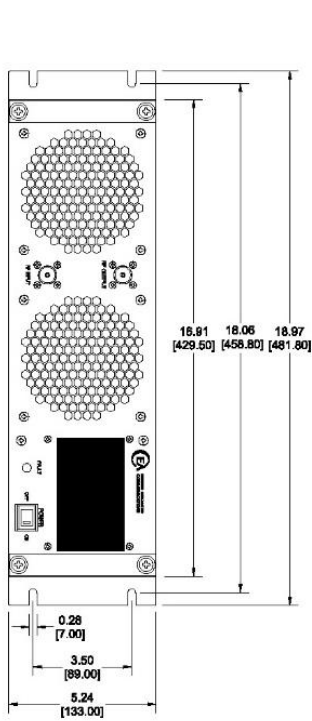
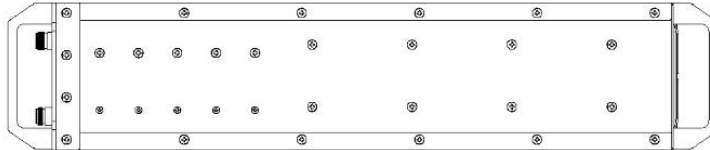
| Parameter                     | Specification | Notes          |
|-------------------------------|---------------|----------------|
| Operating Ambient Temperature | 0 to +50 °C   |                |
| Storage Temperature           | -40 to +85 °C |                |
| Relative Humidity             |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

## MECHANICAL SPECIFICATIONS

| Parameter  | Specification   | Notes                                    |
|--|---|--|
| Dimensions W x H x D   | 430 x 133 x 600 mm  | 3U - excluding handles                   |
| Weight   | 20 kg.  |  |
| RF Connectors In / Out   | Type-N Female   | Front or rear panel                      |
| AC Power / Interface Connector   | IEC 60320-C14 / 9-Pin D-Sub                                 |  |
| Cooling  | Built in Fan Cooling  | Variable speed                           |
| <b>OPTIONAL:</b> Digital Monitor & Control<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485<br>Optional GPIB Interface | Optional<br>Remote Bluetooth application |

## OUTLINE DRAWINGS

### OPTIONAL LCD DIGITAL CONTROLLER



## MANUAL GAIN ADJUSTMENT

