



# AMP2040-1 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Rack mounted system
- Class AB linear LDMOS 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    | 100 - 700 MHz  |                                    |
| Power Output                 | 200 Watt Min   | CW                                 |
| 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 (IMD) | -30 dBc Typ    | 43dBm/Tone, $\Delta = 1\text{MHz}$ |
| Harmonics                    | -20 dBc Typ    | At rated output power              |
| Spurious                     | -60 dBc Max    | Non-harmonics                      |
| Operating Voltage            | 100 - 240 VAC  |                                    |
| Power Consumption            | 1500 Watt Max  | At rated Pout                      |
| Max Input Power Protection   | +3 dBm         | <10 Sec without damage             |
| Load VSWR Protection         | 5 : 1          | <1 minute at rated Pout            |

## ENVIRONMENTAL CHARACTERISTICS

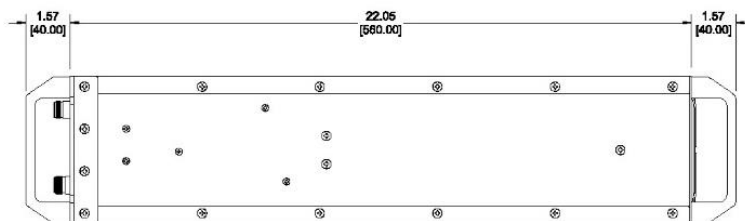
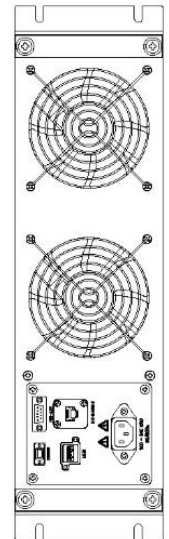
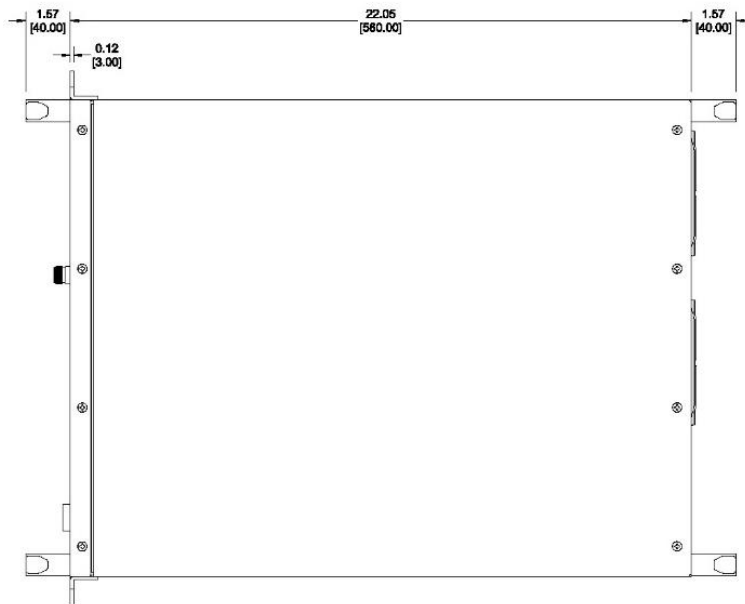
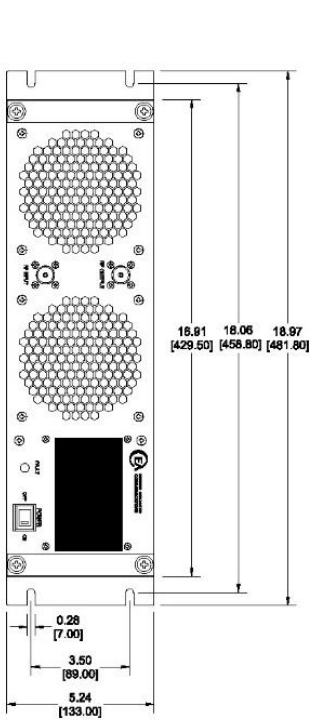
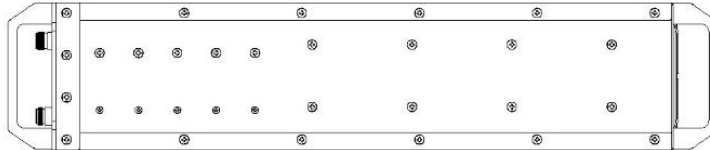
| Parameter                     | Specification | Notes            |
|-------------------------------|---------------|------------------|
| Operating Ambient Temperature | 0 to +50 °C   |                  |
| Storage Temperature           | -40 to +85 °C |                  |
| Relative Humidity     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

## MECHANICAL SPECIFICATIONS

| Parameter  | Specification   | Notes                        |
|--|---|------------------------------|
| Dimensions W x H x D   | 430 x 133 x 600 mm  | 3U - wo handles & connectors |
| Weight   | 20 kg.  |                              |
| RF Connectors In / Out   | Type-N Female   | Front Panel Standard         |
| 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 | Remote Bluetooth application |

## OUTLINE DRAWINGS

### OPTIONAL LCD DIGITAL CONTROLLER



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## OUTLINE DRAWING - MANUAL GAIN ADJUSTMENT

