



# AMP2014A SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Rack mounted system
- Class AB linear LDMOS design
- Instantaneous wide bandwidth
- Suitable for all single channel modulations standards
- Built-in protection circuits
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS

| Parameter                    | Specification               | Notes                              |
|------------------------------|-----------------------------|------------------------------------|
| Operating Frequency Range    | 500 - 1200 MHz              |                                    |
| Power Output                 | 1000 Watt Min               | CW                                 |
| Power Output @ P1dB GCP      | 500 Watt Min / 800 Watt Typ | CW                                 |
| Power Gain                   | 60 dB Min                   |                                    |
| Gain Adjustment Range        | 20 dB Min                   |                                    |
| Power Gain Flatness          | 3.0 dB p-p Max              |                                    |
| Input Return Loss            | 10 dB Min                   | Relative to 50 Ohm                 |
| 2-Tone Intermodulation (IMD) | >30 dBc Typ                 | 50dBm/Tone, $\Delta = 1\text{MHz}$ |
| Harmonics                    | >20 dBc Typ                 |                                    |
| Non Harmonics Spurious       | 60 dBc Min                  | Non Harmonics                      |
| Operating Voltage            | 180 - 240 VAC               | 50 - 60 Hz                         |
| Power Consumption            | 4 KW Typ / 5KW Max          | At rated Pout                      |
| Max Input Power              | +8 dBm                      | Without damage                     |
| Load VSWR Protection         | $\infty: 1$                 |                                    |
| Blanking Speed               | 20 $\mu\text{s}$ Max        |                                    |

## ENVIRONMENTAL CHARACTERISTICS

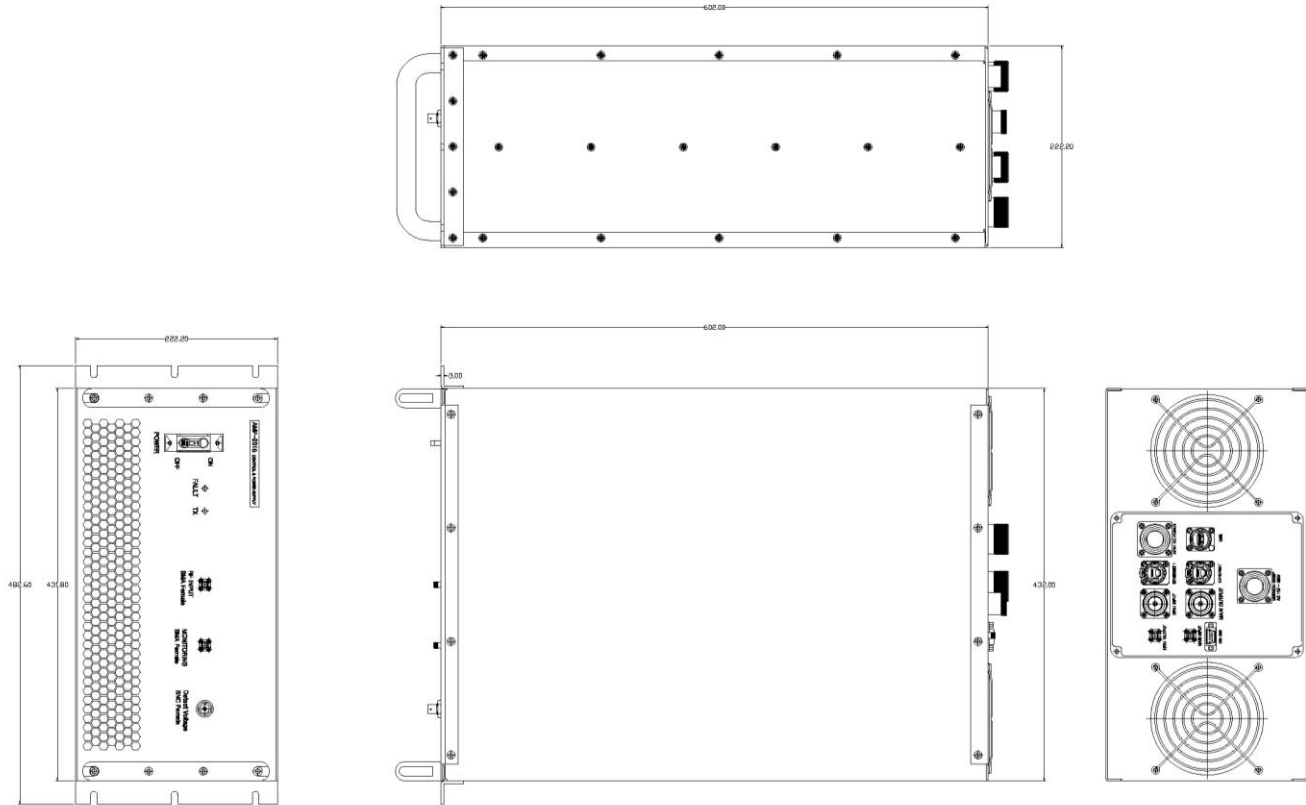
| Parameter                     | Specification  | Notes            |
|-------------------------------|--|------------------|
| Operating Ambient Temperature | 0 to +50 °C  |                  |
| Storage Temperature           | -40 to +85 °C  |                  |
| Relative Humidity             | 5 to 95 %  | Non Condensation |
| Shock<br>Vibration            | MIL-STD-810F, Method 516.5, Procedure I<br>MIL-STD-810F, Method 514.5, Procedure I |                  |

## MECHANICAL SPECIFICATIONS

| Parameter  | Specification   | Notes                |
|--|---|----------------------|
| Dimensions W x H x D   | R5U + R3U   | Rack Mount Chassis   |
| Weight   | 60 Kg. Max  |                      |
| RF Connectors In/Out   | Type-N Female   | Front Panel Standard |
| AC Power / Interface   | IEC 60320-C14 / 9-Pin D-Sub                                 | Or equivalent        |
| 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 |                      |

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## OUTLINE DRAWING





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