



# AMP2085 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

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



## ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

| Parameter                    | Specification               | Notes                         |
|------------------------------|-----------------------------|-------------------------------|
| Operating Frequency Range    | 2.5 - 6.0 GHz               |                               |
| Power Output@ Psat           | 250 Watt Typ                | CW                            |
| Power Output @ P1dB          | 180 Watt Min / 200 Watt Typ |                               |
| Power Gain                   | 53 dB Min                   | Pin=0dBm for normal operation |
| Power Gain Flatness          | 5 dB p-p Max                | Constant input power          |
| Input / Output 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               |
| Spurious                     | -60 dBc Max                 | Non-harmonic                  |
| Operating Voltage            | 180 - 240 VAC               |                               |
| Power Consumption            | 2 KW Max                    | At rated output               |
| Input Power Protection       | +8 dBm Max                  | <10 Sec without damage        |
| Load VSWR Protection         | 5 : 1 Max                   | <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-condensing |

## MECHANICAL SPECIFICATIONS

| Parameter   | Specification  | Notes                                    |
|---|--|--|
| Dimensions W x H x D  | 430 x 222 x 560 mm   | 5U - Excluding handles                   |
| Weight  | 35 Kg. Max   |  |
| RF Connectors In/Out  | Type-N Female  | Front Panel Standard                     |
| AC Power  | 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, USB<br>Optional GPIB Interface | Optional<br>Remote Bluetooth application |

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## OUTLINE DRAWING

