



# AMP2083 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

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



## ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

| Parameter                    | Specification             | Notes                   |
|------------------------------|---------------------------|-------------------------|
| Operating Frequency Range    | 4.0 - 8.0 GHz             |                         |
| Power Output @ Psat          | 150 Watt Min              | CW                      |
| Power Output @ P1dB GCP      | 60 Watt Min / 80 Watt Typ |                         |
| Power Gain                   | 52 dB Min                 |                         |
| Power Gain Flatness          | 4 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              | 42dBm/Tone, Δ = 1MHz    |
| Harmonics                    | <-30 dBc Typ              | At rated output         |
| Spurious                     | -60 dBc Max               | Non-harmonic            |
| Operating Voltage            | 180 - 240 VAC             |                         |
| Power Consumption            | 1500 Watt Max             | At rated output         |
| Input Power Protection       | +5 dBm Max                | <10 Sec without damage  |
| Load VSWR Protection         | ∞ : 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-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 or rear panel                      |
| 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

