

# AMP4043 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Rack mounted system
- Class AB linear GaN 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    | 2.5 - 4.8 GHz  |                              |
| Power Output                 | 300 Watt Min   | CW                           |
| Power Gain                   | 55 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    | 44dBm/Tone, $\Delta = 1$ MHz |
| Harmonics                    | -30 dBc Typ    | At rated output power        |
| Spurious                     | -60 dBc Max    | Non-harmonics                |
| Operating Voltage            | 180 - 260 VAC  |                              |
| Power Consumption            | 3000 Watt Max  | At rated Pout                |
| Max Input Power              | +8 dBm         | <10 Sec without damage       |
| Load VSWR Protection         | $\infty : 1$   | <1 minute @ rated output     |

## ENVIRONMENTAL CHARACTERISTICS

| Parameter                     | Specification | Notes          |
|-------------------------------|---------------|----------------|
| Operating Ambient Temperature | 0 to +50 °C   |                |
| Storage Temperature           | -20 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   | R5U - excluding connectors   |
| Weight  | 30 kg.   |                              |
| RF Connectors In / Out  | Type-N Female  |                              |
| AC Power / Interface Connector  | IEC 60320-C14 / 9-Pin D-Sub  |                              |
| Cooling   | Built in Fan Cooling   | Variable speed               |
| <b>Option: Digital Monitor &amp; Control LCD:</b><br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | 1 Ethernet RJ-45 circular connector TCP/IP<br>1 RS422/485 D-dub 9S port for redundancy | Remote Bluetooth application |

# AMP4043 SOLID STATE HIGH POWER AMPLIFIER

## OUTLINE DRAWING

