



AMP4059 & AMP4059A SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

| Parameter | Specification | | Notes |
|---------------------------|----------------|--------------|--------------------------|
| | AMP4059 | AMP4059A | |
| Model | AMP4059 | AMP4059A | |
| Operating Frequency Range | 1.2 - 2.2 GHz | | |
| Power Output | 200 Watt Min | 250 Watt Min | |
| Power Gain | 53 dB Min | | 1.0dB p-p over 200MHz BW |
| 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 | -30 dBc Typ | | 43dBm/Tone, Δ = 1MHz |
| Harmonics | -20 dBc Max | | At rated output |
| Non-Harmonics Spurious | -60 dBc Max | | |
| Operating Voltage | 100 - 240 VAC | | |
| Power Consumption | 1300 Watt Max | 1500 Wat Max | At rated Pout |
| Max Input Power | +5 dBm | | Without damage |
| Load VSWR Protection | 5 : 1 | | 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 |
| Shock and Vibrations | Normal truck transport | |
| Altitude | 10,000 feet Min | |

MECHANICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|---|---|-----------------------------|
| Dimensions W x H x D | 430 x 133 x 560 mm | 3U - Excluding handles |
| Weight | 20 kg. | |
| RF Connectors In / Out | Type-N Female | Rear Panel |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub | |
| Cooling | Built in Fan Cooling | Proportional variable speed |
| Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface | |

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OUTLINE DRAWING

