



AMP2109DB SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Class AB linear GaN design
- Instantaneous whole S & C bands coverage
- Designed for EMI/RFI, lab, and general communication applications
- Suitable for all single channel modulation standards
- Small and light weight rack mount system
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

| Parameter | Specification | | Notes |
|----------------------------------|----------------|------------|--------------------------|
| | A | B | |
| Band | | | |
| Operating Frequency Range Band B | 1 - 6 GHz | 6 - 18 GHz | |
| Power Output CW Band A / Band B | 10 Watt Min | | CW |
| Power Gain | 40 dB Min | | |
| Power Gain Flatness | 4.0 dB p-p Max | | Constant input power |
| Input Return Loss | -10 dB Max | | Relative to 50 Ohm |
| 2-Tone Intermodulation (IMD) | -30 dBc Typ | | 30dBm per tone, Δ = 1MHz |
| Harmonics | -20 dBc Typ | | At rated Pout |
| Spurious | -60 dBc Max | | Non-harmonics |
| Operating Voltage | 100 - 240 VAC | | |
| Power Consumption | 250 Watt Max | | At rated Pout |
| Input Power Protection | +8 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 88 x 562 mm | 2U, excluding handles |
| Weight | 10 kg. | |
| RF Connectors In/Out | Hi Freq. Type-N Female | Front or rear panel |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub | |
| Cooling | Built in Fan Cooling | |
| OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485, USB | Remote Bluetooth application |

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OUTLINE DRAWING

