

AMP2107DB-4 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications Small form factor, rack mounted Dual-Band system Class A/AB Linear design High Power Advanced technology devices Instantaneous ultra-wide bandwidth Built-in protection circuits, with extensive monitoring Local LCD & remote flexible interfaces High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

| Parameter | Specification | | Notes |
|--|----------------------------|---------------------|--|
| Band | Band A | Band B | |
| Operating Frequency Range by Band | 0.4 - 6.0 GHz ³ | 6.0 - 18.0 GHz | Band A Spillover down to 400MHz ³ |
| Power Output CW Band A / Band B | 10 Watt Min | | CW or Pulse |
| Power Gain | 40 dB Min | | OdBm or less for Rated Power |
| Power Gain Flatness | 5.0 dВ p-р Тур | | Constant input power |
| Gain Adjustment Range | >20 dB Typ | | Local or remote capable |
| Input Return Loss | -10 dB Max | | |
| 2-Tone Intermodulation (IMD) Band A / Band B | -30 dBc Typ | | 30 dBm/Tone, $\Delta = 1$ MHz |
| Harmonics | -20 dBc Typ | | At rated Pout |
| Spurious | -60 dBc Max | | Non-harmonics |
| Operating Voltage | 100 - 240 VAC | | 47-63 Hz |
| Power Consumption | 200 Watt Max | | At rated Pout |
| Input Power Protection | +10 dl | Bm Max ¹ | |
| Load VSWR Protection | 4 : 1: Max ² | | Foldback @ preset limit |
| Sample Port (optional) | -40 dB | | N-Female |

1 Units with optional digital monitor and control, for basic units <10 Sec without damage

2 Units with optional digital monitor and control, for basic units <1 minute at rated Pout

3 Band A spillover frequency range is functional down to 400MHz with non-specified gain/power variation.

ENVIRONMENTAL CHARACTERISTICS

| Parameter | Specification | Notes |
|-------------------------------|-------------------------------|----------------|
| Operating Ambient Temperature | 0 to +50 °C | |
| Storage Temperature | -40 to +85 °C | |
| Relative Humidity | up to 95 % | Non-condensing |
| Altitude | 3000 meters | |
| Shock & Vibration | Normal transport ³ | |

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

| Parameter | Specification | Notes | |
|--|---------------------------------------|-----------------------|--|
| Dimensions W x H x D | 430 x 88 x 562 mm | 2U, excluding handles | |
| Weight | 12 kg. | | |
| RF Connectors, Input / Output / Sample | N-Female | Front or rear panel | |
| Interface Connector | 9-Pin D-Sub | Rear panel | |
| AC Power | IEC 60320-C14 | Or equivalent | |
| Cooling | Built in Fan Cooling | Variable speed | |
| OPTIONAL: Digital Monitor & Control (DMC ⁴) | Ethernet RJ-45 TCP/IP, RS422/485, USB | | |
| FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, | Optional GPIB Interface | IEEE rear panel | |
| Optional Safety Interlock (INT) | Open=STBY/Short=RFON | BNC-F rear panel | |

4 Option DMC, LCD controller option may reduce output power by up to -0.5dB

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10

AVAILABLE SPECIAL OPTIONS

| Parameter | Specification | Notes |
|---|--|---------------------|
| Option FRS: Forward RF Sample | -40dB, Type N-Female | Front or rear panel |
| Option GPIB: GPIB remote control | GPIB IEEE-488 Remote capability | |
| Included CPM: Calibrated Power Monitoring | Offset correction entry for +/- 0.2dB accuracy | 14-points standard⁵ |
| (With purchase of Option DMC) | | |

5 Consult with factory if additional points would be required

OUTLINE DRAWING

SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER

