



AMP2107BDB SOLID-STATE HIGH POWER AMPLIFIER

FEATURES

- Rack mounted system
- Class AB linear GaN design
- Dual-Band, manual band switching via μ P LCD interface
- Designed for broadband EMI/RFI, Lab, Communication applications
- Suitable for all single channel modulation standards
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50 Ω , 25 $^{\circ}$ C

| Parameter | Specification | | Notes |
|---------------------------------------|-------------------|-------------------|------------------------------|
| | Band A | Band B | |
| Band | Band A | Band B | |
| Operating Frequency Range by Band | 0.7 - 6.0 GHz | 6.0 - 18.0 GHz | |
| Power Output @ Psat | 60 Watt / 55 Watt | 46 Watt / 35 Watt | Nominal / Minimum |
| Power Output @ P1dB | 57 Watt / 50 Watt | 30 Watt / 22 Watt | |
| Power Gain | 48 dB Min | 46 dB Min | |
| Power Gain Flatness | 4.0 dB p-p Max | 6.0 dB p-p Max | Constant input power |
| Input Return Loss | -10 dB Max | | Relative to 50 Ohm |
| 3 rd order Intercept (IP3) | +54 dBm | +52 dBm | 37dBm/Tone, $\Delta = 1$ MHz |
| Harmonics | -20 dBc Typ | | At rated Pout |
| Spurious | -60 dBc Max | | Non-harmonics |
| Operating Voltage | 100 - 240 VAC | | 50/60 Hz |
| Power Consumption | 300 Watt Max | <1000 Watt | At rated Pout |
| Input Power Protection | +3 dBm Max | | <10 Sec without damage |
| Load VSWR Protection | $\infty : 1$ | | Auto shutdown @ 6:1 |

ENVIRONMENTAL CHARACTERISTICS

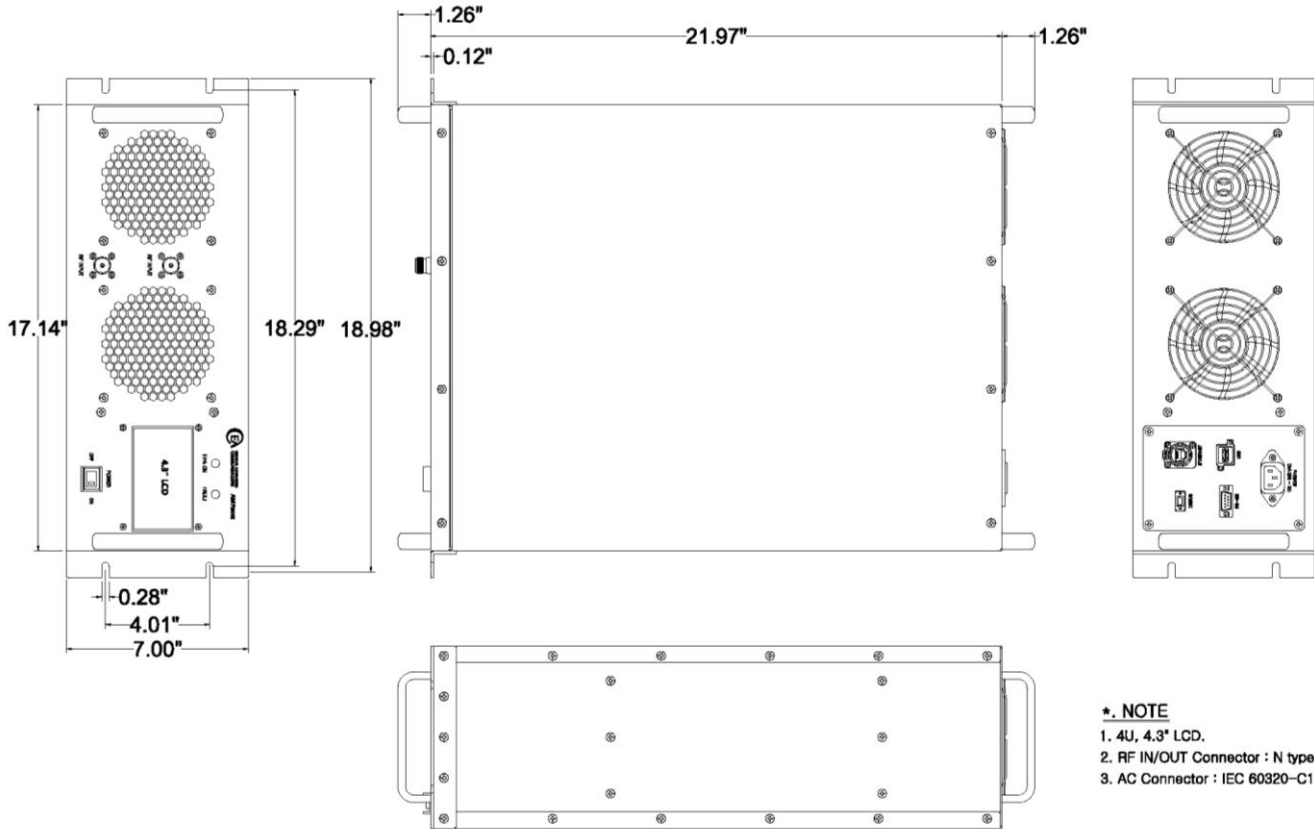
| Parameter | Specification | Notes |
|-------------------------------|-------------------------|----------------|
| Operating Ambient Temperature | 0 to +50 $^{\circ}$ C | |
| Storage Temperature | -40 to +85 $^{\circ}$ C | |
| Relative Humidity | 5 to 95 % | Non-condensing |

MECHANICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|--|--|------------------------|
| Dimensions W x H x D | 483 x 178 x 560 mm | 4U - excluding handles |
| Weight | 30 Kg. Max | |
| RF Connectors In/Out | Hi Freq. Type-N Female | Front or rear panel |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub | Or equivalent |
| 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 Optional GPIB Interface | |

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OUTLINE DRAWING



- *. NOTE
1. 4U, 4.3" LCD.
 2. RF IN/OUT Connector : N type Female
 3. AC Connector : IEC 60320-C14