



AMP2002 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Rack mount system
- Class AB linear GaN design
- Instantaneous wide bandwidth
- Suitable for all modulations standards
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|------------------------------|----------------|------------------------------------|
| Operating Frequency Range | 800 - 4200 MHz | |
| Power Output | 15 Watt Min | CW |
| Power Gain | 42 dB Min | |
| Power Gain Flatness | 3.0 dB p-p Max | |
| Input Return Loss | 10 dB Min | Relative to 50 Ohm |
| 2-Tone Intermodulation (IMD) | >30 dBc Typ | 33dBm/Tone, $\Delta = 1\text{MHz}$ |
| Harmonics | >20dBc Typ | At rated Pout |
| Non Harmonics Spurious | >60 dBc | |
| Operating Voltage | 100 - 240 VAC | |
| Power Consumption | 150 Watt Max | At rated Pout |
| Max Input Power | +10 dBm | Without damage |
| Load VSWR Protection | $\infty : 1$ | |

ENVIRONMENTAL CHARACTERISTICS

| Parameter | Specification | Notes |
|-------------------------------|---------------|------------------|
| Operating Ambient Temperature | 0 to +50 °C | |
| Storage Temperature | -40 to +85 °C | |
| Relative Humidity | 5 to 95 % | Non Condensation |

MECHANICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|---|---|------------------------------|
| Dimensions W x H x D | 430 x 88 x 562 mm | 2U |
| Weight | 10 kg. | |
| RF Connectors In/Out | Type-N Female | |
| 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, GPIB Interface | Remote Bluetooth application |

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OUTLINE DRAWING

