



AMP2070A SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- 3U Bench Top or Rack mounted system
- Class AB linear GaN design
- Instantaneous ultra wide bandwidth
- Suitable for all single channel modulation standards
- Optional uP remote control & monitoring
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|---------------------------------|---------------|-------------------------|
| Operating Frequency Range | 1.0 - 6.0 GHz | |
| Power Output Psat | 150 Watt Min | |
| Power Output P1dB | 100 Watt Min | CW |
| Power Gain | 50 dB Min | |
| Power Gain Flatness | 3 dB p-p Max | Constant input power |
| Gain Variation Over Temperature | ±2.0 dB Max | |
| Input / Output Return Loss | 10 dB Min | Relative to 50 Ohm |
| 2-Tone Intermodulation (IMD) | -30 dBc Typ | 40dBm/Tone, Δ = 1MHz |
| Harmonics | -20 dBc Typ | At rated output |
| Spurious | -60 dBc Max | Non-harmonic |
| Operating Voltage | 100 - 240 VAC | |
| Power Consumption | 1500 Watt Max | At rated output |
| 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-condensation |

MECHANICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------|
| Dimensions W x H x D | 430 x 133.3 x 560 mm | 3U |
| Weight | 25 Kg. Max | |
| RF Connectors In/Out | Type-N Female | Front Panel Standard |
| AC Power | IEC 60320-C14 / 9-Pin D-Sub | Or equivalent |
| Cooling | Built in Fan Cooling | Variable speed |
| OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485, Optional GPIB Interface | Remote Bluetooth application |

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OUTLINE DRAWING

