



AMP6004A SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Designed for X-Band high power CW applications
- Class AB linear GaN hybrid design
- Suitable for all single channels modulations standards
- Built-in protection circuits
- High reliability and ruggedness
- Rack mounted system



ELECTRICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|------------------------------|----------------------------|-----------------------------|
| Operating Frequency Range | 10 GHz \pm 0.25 GHz | |
| Power Output | 90 Watt Min / 100 Watt Typ | CW |
| Power Gain | 50 dB Min | |
| Input Return Loss | 10 dB Min | Relative to 50 Ohm |
| 2-Tone Intermodulation (IMD) | >30 dBc Typ | 37dBm/Tone, Δ = 1MHz |
| Harmonics | >30 dBc Min | At rated Pout |
| Non Harmonics Spurious | 60 dBc Min | Non Harmonics |
| Operating Voltage | 100 - 240 VAC | |
| Power Consumption | 800 Watt Max | At rated Pout |
| Max Input Power | +5 dBm | Without damage |
| Load VSWR Protection | 5 : 1 | |

ENVIRONMENTAL CHARACTERISTICS

| Parameter | Specification | Notes |
|-------------------------------|---------------|------------------|
| Operating Ambient Temperature | 0 to +60 °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 | 12 kg. Max | |
| RF Connectors In/Out | Type-N Female | Front Panel Standard |
| 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 | Remote Bluetooth application |

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OUTLINE DRAWING

