



AMP4011 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|------------------------------|----------------|------------------------------------|
| Operating Frequency Range | 450 - 550 MHz | |
| Power Output | 300W Min | CW |
| Power Gain | 55 dB Min | |
| Power Gain Flatness | 2.0 dB p-p Max | Constant input power |
| Input Return Loss | 10 dB Min | Relative to 50 Ohm |
| 2-Tone Intermodulation (IMD) | >30 dBc Typ | 45dBm/Tone, $\Delta = 1\text{MHz}$ |
| Harmonics | >20 dBc Typ | At rated output power |
| Non Harmonics Spurious | >60dBc | |
| Operating Voltage | 100 - 240 VAC | |
| Power Consumption | 1200 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 Condensing |

MECHANICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|--|--|------------------------------|
| Dimensions W x H x D | 430 x 133.3 x 560 mm | 3U |
| Weight | 20 kg. | |
| RF Connectors In / Out | Type-N Female | |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub | |
| Cooling | Built in Fan Cooling | Variable speed |
| Monitor & Control (Digital Control Option): FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | 1 Ethernet RJ-45 circular connector TCP/IP 1 RS422/485 D-dub 9S port for redundancy | Remote Bluetooth application |

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OUTLINE DRAWING

