



AMP2117A SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|------------------------------|-----------------------------|------------------------------------|
| Operating Frequency Range | 20 - 500 MHz | |
| Power Output @ Psat | 100 Watt Min / 125 Watt Typ | Pin = +10dBm Nom |
| Power Output @ P1dB | 60 Watt Min / 70 Watt Typ | |
| Power Gain | 40 dB Min | |
| Power Gain Flatness | 3.0 dB p-p Max | Constant input power |
| Input / Output Return Loss | 10 dB Min | Relative to 50 Ohm |
| Noise Figure | 7 dB Max | At maximum gain |
| 2-Tone Intermodulation (IMD) | -30 dBc Typ | 40dBm/Tone, $\Delta = 1\text{MHz}$ |
| Harmonics | -20 dBc Typ | At rated output power |
| Spurious | -60dBc Max | Non-harmonics |
| Operating Voltage | 100 - 240 VAC | |
| Power Consumption | 300 Watt | At rated Pout |
| Input Power Protection | +15 dBm Max | <10 Sec without damage |
| Load VSWR Protection | $\infty : 1$ | <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 88 x 562 mm | 2U - Without handles |
| 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 | 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 |

AMP2117A SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING

