

# AMP2001A 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    | 1 - 1000 MHz              |                                    |
| Power Output                 | 20 Watt Min / 25 Watt Min | CW                                 |
| Power Gain                   | 44 dB Min                 |                                    |
| Power Gain Flatness          | 4.0 dB p-p Max            |                                    |
| Input Return Loss            | 10 dB Min                 | Relative to 50 Ohm                 |
| 2-Tone Intermodulation (IMD) | -30 dBc Typ               | 34dBm/Tone, $\Delta = 1\text{MHz}$ |
| Harmonics                    | -20 dBc Typ               | At rated Pout                      |
| Spurious                     | -60 dBc Max               | Non-harmonics                      |
| Operating Voltage            | 100 - 240 VAC             |                                    |
| Power Consumption            | 150 Watt Max              | At rated Pout                      |
| Max Input Power Protection   | +8 dBm                    | <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           | 265 x 88 x 229 mm           | 2U    |
| Weight                         | 8 kg.                       |       |
| RF Connectors In/Out           | Type-N Female               |       |
| AC Power / Interface Connector | IEC 60320-C14 / 9-Pin D-Sub |       |
| Cooling                        | Built in Fan Cooling        |       |

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## OUTLINE DRAWING

