



# AMP2016 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

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



## ELECTRICAL SPECIFICATIONS

| Parameter                    | Specification  | Notes                              |
|------------------------------|----------------|------------------------------------|
| Operating Frequency Range    | 400 - 1000 MHz |                                    |
| Power Output                 | 10 Watt Min    | Saturated CW                       |
| Power Gain                   | 40 dB Min      |                                    |
| Power Gain Flatness          | 3.0 dB p-p Max |                                    |
| Input Return Loss            | 10 dB Min      | Relative to 50 Ohm                 |
| 2-Tone Intermodulation (IMD) | >30 dBc Typ    | 30dBm/Tone, $\Delta = 1\text{MHz}$ |
| Harmonics                    | >25 dBc Typ    | At rated Pout                      |
| Non Harmonics Spurious       | 60 dBc Min     | Non Harmonics                      |
| Operating Voltage            | 100 - 240 VAC  |                                    |
| Power Consumption            | 80 Watt Max    | At rated Pout                      |
| Max Input Power              | +8 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 Condensation |

## MECHANICAL SPECIFICATIONS

| Parameter   | Specification  | Notes                        |
|---|--|------------------------------|
| Dimensions W x H x D  | 430 x 88 x 562 mm  | 2U                           |
| Weight  | 9 kg.  |                              |
| 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<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485, Optional<br>GPIB Interface | Remote Bluetooth application |

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## OUTLINE DRAWING

