



# AMP2047 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

Rack mount system  
Class AB linear GaN 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    | 3.0 - 6.0 GHz |                                    |
| Power Output                 | 50 Watt Min   | CW                                 |
| Power Gain                   | 47 dB Min     |                                    |
| Power Gain Flatness          | 3.0 dB p-p    |                                    |
| Input Return Loss            | 10 dB Min     | Relative to 50 Ohm                 |
| 2-Tone Intermodulation (IMD) | >30 dBc Typ   | 37dBm/Tone, $\Delta = 1\text{MHz}$ |
| Harmonics                    | >20 dBc Typ   | At rated output power              |
| Non Harmonics Spurious       | >60dBc        |                                    |
| Operating Voltage            | 100 - 240 VAC | Single phase                       |
| Power Consumption            | 300 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 Condensing |

## MECHANICAL SPECIFICATIONS

| Parameter                                                                     | Specification                                       | Notes                        |
|-------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------|
| Dimensions W x H x D                                                          | 430 x 133 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               |
| OPTIONAL: Digital Monitor & Control<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485, GPIB<br>Interface | Remote Bluetooth application |

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## OUTLINE DRAWING

