



# AMP4019 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

Standard rack mounted system  
Class AB linear GaN Hybrid design  
Instantaneous full X-Band bandwidth  
Suitable for all single channel modulation standards  
Built-in protection circuits  
High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS

| Parameter                    | Specification  | Notes                              |
|------------------------------|----------------|------------------------------------|
| Operating Frequency Range    | 8.0 - 12.0 GHz |                                    |
| Power Output                 | 50 Watt Min    | CW                                 |
| Power Gain                   | 47 dB Min      |                                    |
| Power Gain Flatness          | 3 dB p-p Max   | Constant input power               |
| Input / Output Return Loss   | 10 dB Min      | Relative to 50 Ohm                 |
| 2-Tone Intermodulation (IMD) | -30 dBc Max    | 37dBm/Tone, $\Delta = 1\text{MHz}$ |
| Harmonics                    | -25 dBc Max    | At rated output power              |
| Spurious                     | -60 dBc Max    | Non-harmonics                      |
| Operating Voltage            | 100 - 240 VAC  |                                    |
| Power Consumption            | 400 Watt Max   | At rated Pout                      |
| Input Power Protection       | +8 dBm Max     | <10 Sec without damage             |
| Load VSWR Protection         | 5 : 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 560 x 133 mm                                          | 3U - Without handles         |
| Weight                                                                               | 20 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                                        | Variable speed               |
| <b>OPTIONAL:</b> Digital Monitor & Control<br>FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485<br>Optional GPIB Interface | Remote Bluetooth application |

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## OUTLINE DRAWING

