

# AMP2021 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Rack mounted 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       | 800 - 2500 MHz |                       |
| Power Output                    | 100W Min       | CW                    |
| Power Gain                      | 50 dB Min      |                       |
| Power Gain Flatness             | 3.0 dB p-p Max | Constant input power  |
| Gain Variation Over Temperature | ±2.0 dB        |                       |
| Input / Output Return Loss      | 10 dB Min      | Relative to 50 Ohm    |
| 2-Tone Intermodulation (IMD)    | -30 dBc Min    | 41dBm/Tone, Δ = 1MHz  |
| Harmonics                       | >20 dBc        | At rated output power |
| Non Harmonics Spurious          | >60dBc         |                       |
| Operating Voltage               | 100 - 240 VAC  |                       |
| Power Consumption               | 400 Watt       | At rated Pout         |
| Max Input Power                 | +10 dBm        | Without damage        |
| Load VSWR Protection            | ∞ : 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 - 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<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

