



## 0.7-6.0GHz, 20W Rack Mount Power Amplifier MtronPTI P/N: PA2098

### FEATURES

Rack mounted system  
 Class AB linear GaN hybrid 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    | 0.7 - 6.0 GHz  |                                    |
| Power Output                 | 20 Watt Min    | CW                                 |
| Power Gain                   | 43 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    | 33dBm/Tone, $\Delta = 1\text{MHz}$ |
| Harmonics                    | -20 dBc Typ    | At rated Pout                      |
| Non Harmonics Spurious       | -60 dBc Max    | Non Harmonics                      |
| Operating Voltage            | 100 - 240 VAC  |                                    |
| 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 88 x 562 mm                                            | 2U, excluding 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                                         |                              |
| <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**

