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**FEATURES**

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 | 1000 - 2000 MHz |  |
| Power Output Psat | 35 Watt Min | CW |
| Output Power @ P1dB | 25 Watt Min |  |
| Power Gain | 45 dB Min |  |
| Power Gain Flatness | 2.0 dB p-p Max |  |
| Input / Output VSWR | >10 dB | Relative to 50 Ohm |
| 2-Tone Intermodulation (IMD) | >30 dBc typ | 35dBm/Tone, Δ = 1MHz |
| Harmonics | >20 dBc Typ | At rated Pout |
| Non Harmonics Spurious | >60 dBc |  |
| Operating Voltage | 28 VDC Nom |  |
| Current Consumption | 5 Amp Max | At rated Pout |
| Max Input Power Protection | +8 dBm | 10 Sec without damage |
| Load VSWR Protection | ∞ : 1 | At rated Pout for 1 minute |

**ENVIRONMENTAL CHARACTERISTICS**

|  |  |  |
| --- | --- | --- |
| **Parameter** | **Specification** | **Notes** |
| Operating Case Temperature | -20 to +75 °C |  |
| Storage Temperature | -40 to +85 °C |  |
| Relative Humidity | 5 to 95 % | Non Condensation |

MECHANICAL SPECIFICATIONS

|  |  |  |
| --- | --- | --- |
| **Parameter** | **Specification** | **Notes** |
| Dimensions | 147 X 69 X 27 mm | Excluding Connectors |
| Weight | 525 g. | Max Weight |
| RF Connectors In/Out | SMA female |  |
| DC Power / Interface Connector | 9-Pin D-Sub |  |
| Cooling | External Heatsink | Forced air required |

**D-SUB CONNECTOR PIN ASSIGNMENT**

|  |  |  |
| --- | --- | --- |
| **Pin** | **Function** | **Description** |
| 1 | FWD | N/C |
| 2 | REV | N/C |
| 3 | CURRENT SENSOR | ID@20mV/100mA Typ |
| 4 | TEMP SENSOR | VT@10mV/°C + 500mV Typ |
| 5 | SHUTDOWN | TTL |
| 6, 7 | VDD | 28VDC |
| 8, 9 | GND | Ground |

**OUTLINE DRAWING**

