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MODEL 5800805-200

20 - 500 MHz
170 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5800805-200 is a heatsink assembly which consists of two 5300805 module amplifiers. Along with a hybrid combiner and divider which was supplied by the customer.

This system provides 170 Watts across the 20 – 500 MHz frequency range. This small and lightweight system utilizes Class A/AB linear power devices that provide an excellent 3rd order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

| | Parameter | Specifications @ 25° C |
|-----------------------------|----------------------------|--|
| <u>Electrical</u> | | |
| 1 | Frequency Range | 20 – 500 MHz |
| 2 | Saturated Output Power | 170 Watts typical |
| 3 | Power Output @ 1dB Comp. | 100 Watts min |
| 4 | Small Signal Gain | +19 dB min |
| 5 | Power Gain Flatness | ± 2.0 dB max |
| 6 | IP ₃ | +58 dBm typical |
| 7 | Input VSWR | 2.5:1 max |
| 8 | Harmonics | -15 dBc typical |
| 9 | Spurious Signals | <-60 dBc typical |
| 10 | Input/Output Impedance | 50 Ohms nominal |
| 11 | DC Input Current | 20 Amps max |
| 12 | DC Inputs | 28-30 Vdc nominal |
| 13 | Blanking (Logic) | < 5µs 3-5 Vdc = Enable, < 0.5 Vdc = Off |
| 14 | RF Input | 0 dBm max |
| 15 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 16 | Class of Operation | AB |
| <u>Mechanical</u> | | |
| 17 | Dimensions (with Heatsink) | 17.5" x 9.8" x 4.1" |
| 18 | Weight (with Heatsink) | 23 Lbs. |
| 19 | RF Connectors | SMA female |
| 20 | Grounding | Chassis |
| 21 | Cooling | Adequate Ventilation Required |
| <u>Environmental</u> | | |
| 22 | Operating Temperature | 0° C to +50° C |
| 23 | Operating Humidity | 95% Non-condensing |
| 24 | Operating Altitude | Up to 10,000' Above Sea Level |
| 25 | Shock and Vibration | Normal Truck Transport |

Specifications subject to change without notice.

FEATURES:

- Heatsink and fans included.
- Customer provided combiner and divider hybrid couplers

