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MODEL 5304006

0.5 - 2.5 GHz
50 WATTS
POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304006 is a 50 Watt broadband amplifier that covers the 0.5 – 2.5 GHz frequency range. This small and lightweight amplifier utilizes Class A linear power devices that provide an excellent efficiency, 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 | Specification @ 25° C |
|----------------------|------------------------|--|
| Electrical | | |
| 1 | Frequency Range | 0.5– 3 GHz |
| 2 | Saturated Output Power | 50 Watts min. |
| 3 | Small Signal Gain | +46 dB min |
| 4 | Power Gain Flatness | ± 1.5 dB max |
| 5 | IMP ₃ | -65dBc @ 20dBm Output |
| 6 | Input VSWR | 2:1 max |
| 7 | Harmonics | -15 dBc typical |
| 8 | Spurious Signals | < -60 dBc typical |
| 9 | Noise Figure | <10 dB |
| 10 | Remote shut down | 5V to Enable 0V to Disable |
| 11 | DC Input Current | 11.0A Max |
| 12 | DC Input Voltage | 24 VDC nominal |
| 13 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 14 | Class of Operation | A |
| Mechanical | | |
| 15 | Dimensions | 6.0" x 5.0" x 1.1" |
| 16 | Weight | 2 lb. max |
| 17 | Connectors | SMA female for RF Feed Thru for DC, control, and indications |
| 18 | Grounding | Chassis |
| 19 | Cooling | Adequate Heatsink Required |
| Environmental | | |
| 20 | Baseplate Temperature | -40° C to +85° C |
| 21 | Operating Humidity | 95% Non-condensing |
| 22 | Operating Altitude | Up to 10,000' Above Sea Level |
| 23 | Shock and Vibration | MIL-STD-810F |

Specifications subject to change without notice

