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MODEL 5303111

0.5 - 2.5 GHz
50 WATTS
POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303111 is a 50 Watt broadband amplifier that covers the 0.5 – 2.5 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB 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 |
|-----------------------------|--|---|
| <u>Electrical</u> | | |
| 1 | Frequency Range | 0.5 – 2.5GHz |
| 2 | Saturated Output Power | 50 Watts Minimum across the entire frequency band 60 Watts Typical |
| 4 | Small Signal Gain | +50 dB min |
| 5 | Power Gain Flatness | ± 1.25 dB max |
| 7 | Input VSWR | 2:1 max |
| 8 | Harmonics | -15 dBc typical |
| 9 | Spurious Signals | < -60 dBc typical |
| 10 | Remote shut down | 5V to Enable 0V to Disable |
| 11 | Blanking | TTL "High" is Enable TTL "Low" is blanked |
| 12 | Blanking speed | 5uS max. On/Off, Off/On |
| 13 | DC Consumption | 150W Maximum at 50 Watts Output Power |
| 14 | DC Input Voltage | 28VDC +/-2V |
| 15 | RF Input drive required For full rated power | 0dBm nominal |
| 16 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 17 | Class of Operation | A/AB |
| <u>Mechanical</u> | | |
| 18 | Dimensions (L x W x H) | 6" x 5" x 1" |
| 19 | Weight | 3 lb. max |
| 20 | Connectors | SMA female for RF D-Sub Connector for DC |
| 21 | Grounding | Chassis |
| 22 | Cooling | Adequate Heatsink Required |
| <u>Environmental</u> | | |
| 23 | Base plate Temperature | -40° C to +85° C |
| 24 | Operating Humidity | 95% Non-condensing |
| 25 | Operating Altitude | Up to 10,000' Above Sea Level |
| 26 | Shock and Vibration | Normal Truck Transport |

Specifications subject to change without notice

Options

Input DC voltage range of 18-36VDC.
 Power Consumption Will increase by 15%.
 Size will also increase.



Approved By: _____ Date: _____