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MODEL 5303084
0.5 - 3 GHz
50 WATTS
POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5303084 is a 50 Watt broadband amplifier that covers the 0.5 – 3 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.

| | <u>Parameter</u> | <u>Specification @ 25° C</u> |
|-----------------------------|-------------------------|--|
| <u>Electrical</u> | | |
| 1 | Frequency Range | 0.5– 3 GHz |
| 2 | Saturated Output Power | 50 Watts typ |
| 4 | Small Signal Gain | +48 dB min |
| 5 | Power Gain Flatness | ± 1.5 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, 5uS On/Off |
| 11 | DC Consumption | 300W maximum |
| 12 | DC Input Voltage | 50V |
| 13 | Over voltage protection | Above 52V, Latched, re-settable using a TTL command |
| 14 | Temp Indication | Analog voltage reporting with LM35 or equivalent |
| 15 | Current Indication | Analog voltage reporting |
| 16 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 17 | Class of Operation | A/AB |
| <u>Mechanical</u> | | |
| 18 | Dimensions | 6.0" x 5.0" x 1.1" |
| 19 | Weight | 2 lb. max |
| 20 | Connectors | SMA female for RF Feed Thru for DC, control, and indications |
| 21 | Grounding | Chassis |
| 22 | Cooling | Adequate Heatsink Required |
| <u>Environmental</u> | | |
| 23 | Baseplate Temperature | -20° C to +85° C |
| 24 | Operating Humidity | 95% Non-condensing |
| 25 | Operating Altitude | Up to 10,000' Above Sea Level |
| 26 | Shock and Vibration | MIL-STD-810F |