



5300 Beethoven Street, Los Angeles, CA 90066
 TEL: (310)306-5556 • FAX: (310)821-7413
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5803084
0.5 - 3 GHz
50 WATTS
POWER RF AMPLIFIER
On Heatsink with Fans

**Solid State
 Broadband High
 Power RF Amplifier**

The 5803084 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 | ± 2.0 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 | 350W maximum |
| 12 | DC Input Voltage | 28V-48V |
| 13 | Temp Indication | Analog voltage reporting with LM35 or equivalent |
| 14 | Current Indication | Analog voltage reporting |
| 15 | RF Input Signal Format | CW/AM/FM/PM/Pulse |
| 16 | Class of Operation | A/AB |
| <u>Mechanical</u> | | |
| 17 | Dimensions | 10.5" x 6.1" x 4.5" |
| 18 | Weight | 12 Lbs. |
| 29 | Connectors | SMA female for RF Feed Thru for DC, control, and indications |
| 20 | Grounding | Chassis |
| 21 | Cooling | Adequate Heatsink Required |
| <u>Environmental</u> | | |
| 22 | Baseplate Temperature | -20° C to +85° C |
| 23 | Operating Humidity | 95% Non-condensing |
| 24 | Operating Altitude | Up to 10,000' Above Sea Level |
| 25 | Shock and Vibration | MIL-STD-810F |

