



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 5303107**

**20-1000 MHz**  
**150 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5303107 is a 150 Watt broadband amplifier that covers the 20-1000 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> 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.

Specifications subject to change without notice

|                             | <u>Parameter</u>           | <u>Specification @ 25° C</u>                                |
|-----------------------------|----------------------------|---|
| <b><u>Electrical</u></b>    |                            |   |
| 1                           | Frequency Range            | 20-1000 MHz   |
| 2                           | Output power @ Psat        | 150 Watts typical   |
| 3                           | Small Signal Gain          | +53 dB min  |
| 4                           | Small Signal Gain Flatness | +/-2.5 dB max   |
| 5                           | Input /Output VSWR         | 2:1 max   |
| 6                           | Harmonics                  | -20 dBc max   |
| 7                           | Spurious Signals           | -60 dBc max   |
| 8                           | Input/Output Impedance     | 50 Ohms nominal   |
| 9                           | DC Input Power             | 20A max   |
| 10                          | DC Input                   | 50 VDC  |
| 11                          | RF Input Power             | 0 dBm nominal   |
| 12                          | RF Input Signal Format     | CW/AM/FM/PM/Pulse   |
| 13                          | Class of Operation         | A/AB  |
| 14                          | Interface                  | D-sub   |
| <b><u>Mechanical</u></b>    |                            |   |
| 15                          | Dimensions                 | 12" x 6.5" x 1"   |
| 16                          | Weight                     | 10 lb. max  |
| 17                          | Connectors                 | Type-N for RF<br>Filtered D-sub for control and indications |
| 18                          | Grounding                  | Chassis   |
| 19                          | Cooling                    | Adequate Heatsink Required                                  |
| <b><u>Environmental</u></b> |                            |   |
| 20                          | Baseplate Temperature      | -20° C to +71° C  |
| 21                          | Operating Humidity         | 95% Non-condensing  |
| 22                          | Operating Altitude         | Up to 10,000' Above Sea Level                               |
| 23                          | Shock and Vibration        | Normal Truck Transport                                      |

