



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 5303129

**0.7 - 4.0 GHz**  
**8 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### **Solid State Broadband High Power RF Amplifier**

The 5303129 is a 8 Watt broadband amplifier that covers the 0.7 – 4.0 GHz 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. Like all OPHIR<sub>RF</sub> amplifiers, the 5303129 comes with an extended multiyear warranty.

|                             | Parameter                | Specification @ 25° C         |
|-----------------------------|--------------------------|-------------------------------|
| <b><u>Electrical</u></b>    |                          |                               |
| 1                           | Frequency Range          | 0.7 – 4.0 GHz                 |
| 2                           | Saturated Output Power   | 8 Watts typical               |
| 3                           | Power Output @ 1dB Comp. | 7 Watts min                   |
| 4                           | Small Signal Gain        | +38 dB min                    |
| 5                           | Gain Flatness            | ± 2.0 dB max                  |
| 6                           | IP <sub>3</sub>          | +49 dBm typical               |
| 7                           | Input VSWR               | 2:1 max                       |
| 8                           | Harmonics                | -20 dBc typical @ 8 Watts     |
| 9                           | Spurious Signals         | < -60 dBc typical @ 8 Watts   |
| 10                          | Input/Output Impedance   | 50 Ohms nominal               |
| 11                          | DC Input Current         | 6 Amps max                    |
| 12                          | DC Input                 | 13 VDC nominal                |
| 13                          | RF Input                 | +10 dBm Maximum               |
| 14                          | RF Input Signal Format   | CW/AM/FM/PM/Pulse             |
| 15                          | Class of Operation       | A/AB                          |
| <b><u>Mechanical</u></b>    |                          |                               |
| 16                          | Dimensions               | 9" x 5.2" x 1.8"              |
| 17                          | Weight                   | 7.5 lb. max                   |
| 18                          | Connectors               | SMA female                    |
| 19                          | Grounding                | Chassis                       |
| 20                          | Cooling                  | Adequate Heatsink Required    |
| <b><u>Environmental</u></b> |                          |                               |
| 21                          | Baseplate Temperature    | 0° C to +50° C                |
| 22                          | Operating Humidity       | 95% Non-condensing            |
| 23                          | Operating Altitude       | Up to 10,000' Above Sea Level |
| 24                          | Shock and Vibration      | Normal Truck Transport        |

Specifications subject to change without notice.