



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 5304006-015**

**0.7 - 3.8 GHz**  
**15 WATTS**  
**POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5304006-015 is a 15 Watt broadband amplifier that covers the 0.7 – 3.8 GHz frequency range. This small and lightweight amplifier utilizes Class A 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>  |
|-----------------------------|------------------------|-------------------------------|
| <b><u>Electrical</u></b>    |                        |                               |
| 1                           | Frequency Range        | 0.7 – 3.8 GHz                 |
| 2                           | Saturated Output Power | 15 Watts min.                 |
| 3                           | Small Signal Gain      | +48 dB min                    |
| 4                           | Power Gain Flatness    | ± 2.0 dB max                  |
| 5                           | Input VSWR             | 2:1 max                       |
| 6                           | Harmonics              | -15 dBc typical               |
| 7                           | Spurious Signals       | < -60 dBc typical             |
| 8                           | Remote shut down       | 5V to Enable<br>0V to Disable |
| 9                           | DC Input Current       | 4.0 A Max                     |
| 10                          | DC Input Voltage       | 28 VDC nominal                |
| 11                          | RF Input Signal Format | CW/AM/FM/PM/Pulse             |
| 12                          | Class of Operation     | A to A/B                      |
| <b><u>Mechanical</u></b>    |                        |                               |
| 13                          | Dimensions             | 7.0" x 5.0" x 1.1"            |
| 14                          | Weight                 | 2 lb. max                     |
| 15                          | Connectors             | RF In/Out, SMA female         |
| 16                          | Grounding              | Chassis                       |
| 17                          | Cooling                | Adequate Heatsink Required    |
| <b><u>Environmental</u></b> |                        |                               |
| 18                          | Baseplate Temperature  | 0° C to +60° C                |
| 19                          | Operating Humidity     | 95% Non-condensing            |
| 20                          | Operating Altitude     | Up to 10,000' Above Sea Level |
| 21                          | Shock and Vibration    | MIL-STD-810F                  |

Specifications subject to change without notice