



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 5302380**  
**1.2 - 1.6 GHz**  
**30 WATTS**  
**POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5302380 is a 30 Watt broadband amplifier that covers the 1.2 – 1.6 GHz frequency range. This small and lightweight amplifier utilizes Class 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.

|                      | Parameter                                    | Specification @ 25° C                 |
|----------------------|--|---------------------------------------|
| <b>Electrical</b>    |  |                                       |
| 1                    | Frequency Range                              | 1.2 – 1.6GHz                          |
| 2                    | Saturated Output Power                       | 30 Watts minimum                      |
| 4                    | Small Signal Gain                            | +45 dB min                            |
| 5                    | Power Gain Flatness                          | ± 0.75 dB max                         |
| 7                    | Input VSWR                                   | 2:1 max                               |
| 8                    | Harmonics                                    | -20 dBc typical                       |
| 9                    | Spurious Signals                             | > -60 dBc typical                     |
| 10                   | DC Consumption                               | 100W maximum                          |
| 11                   | DC Input Voltage                             | 28V                                   |
| 12                   | RF Input drive required<br>For a rated power | 0dBm nominal                          |
| 13                   | VSWR Protection                              | Protected by Isolator                 |
| 14                   | Class of Operation                           | AB                                    |
| 15                   | TTL Blanking                                 | 5V - Enable<br>5uS On/Off             |
| <b>Mechanical</b>    |  |                                       |
| 16                   | Dimensions                                   | 3.0" x 6.5" x 1"                      |
| 17                   | Weight                                       | 2 lb. max                             |
| 18                   | Connectors                                   | SMA female for RF<br>Feed Thru for DC |
| 19                   | Grounding                                    | Chassis                               |
| 20                   | Cooling                                      | Adequate Heatsink Required            |
| <b>Environmental</b> |  |                                       |
| 21                   | Baseplate Temperature                        | -10° C to +60° C                      |
| 22                   | Operating Humidity                           | 95% Non-condensing                    |
| 23                   | Operating Altitude                           | Up to 10,000' Above Sea Level         |
| 24                   | Shock and Vibration                          | Normal truck transportation           |

