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**MODEL 5300674-001**  
**1805-2170 MHz**  
**50 WATTS**  
**LINEAR POWER RF AMPLIFIER**

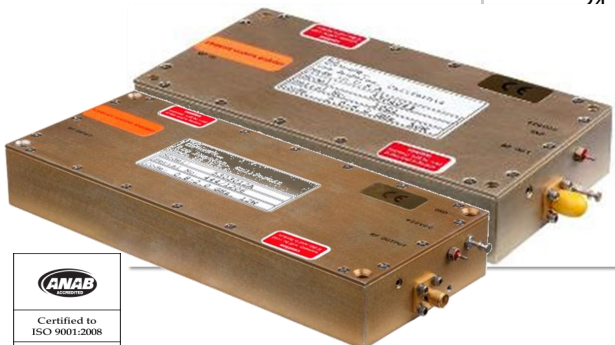
**Solid State  
Broadband High  
Power RF Amplifier**

The 5300674-001 is a 50 Watt broadband amplifier that covers the 1805-2170 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. Like all OPHIR<sub>RF</sub> amplifiers, the 5300674-001 comes with an extended multiyear warranty.

|                      | Parameter                | Specification @ 25° C                                                |
|----------------------|--------------------------|----------------------------------------------------------------------|
| <b>Electrical</b>    |                          |                                                                      |
| 1                    | Frequency Range          | 1805-2170 MHz                                                        |
| 2                    | Saturated Output Power   | 50 Watts typical                                                     |
| 3                    | Power Output @ 1dB Comp. | 40 Watts min                                                         |
| 4                    | Small Signal Gain        | +48 dB min                                                           |
| 5                    | Gain Flatness            | ± 1.0 dB max                                                         |
| 6                    | IP <sub>3</sub>          | +56 dBm typical                                                      |
| 7                    | Input VSWR               | 2:1 max                                                              |
| 8                    | Harmonics                | -20 dBc typical @ 40 Watts                                           |
| 9                    | Spurious Signals         | < -60 dBc typical @ 40 Watts                                         |
| 10                   | Input/Output Impedance   | 50 Ohms nominal                                                      |
| 11                   | DC Input Current         | 16 Amps max                                                          |
| 12                   | DC Input                 | 13 VDC nominal                                                       |
| 13                   | RF Input                 | +10 dBm max                                                          |
| 14                   | RF Input Signal Format   | CW/AM/FM/PM/Pulse                                                    |
| 15                   | Class of Operation       | A/AB                                                                 |
| <b>Mechanical</b>    |                          |                                                                      |
| 16                   | Dimensions               | 6.0" x 3.8" x 1.1" output module<br>6.8" x 2.7" x 1.0" driver Module |
| 17                   | Weight                   | 4 Lbs.                                                               |
| 18                   | Connectors               | SMA female                                                           |
| 19                   | Grounding                | Chassis                                                              |
| 20                   | Cooling                  | Adequate Heatsink Required                                           |
| <b>Environmental</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.



**OPTIONAL HEATSINK AND FANS AVAILABLE**

06/13 Approved By: \_\_\_\_\_ Date: \_\_\_\_\_