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## MODEL 5803038A

**5 - 1000 MHz**  
**15 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5803038A is a 15 Watt broadband amplifier that covers the 5 – 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. Like all OPHIR<sub>RF</sub> amplifiers, the 5803038A comes with an extended multiyear warranty.

|                      | Parameter                 | Specification @ 25° C         |
|----------------------|---------------------------|-------------------------------|
| <b>Electrical</b>    |                           |                               |
| 1                    | Frequency Range           | 5 – 1000 MHz                  |
| 2                    | Saturated Output Power    | 15 Watts typical              |
| 3                    | Power Output @ 1dB Comp.  | 5 Watts min                   |
| 4                    | Small Signal Gain         | +43 dB min                    |
| 5                    | Gain Flatness             | ± 2.25 dB max                 |
| 6                    | IP <sub>3</sub>           | +45 dBm typical               |
| 7                    | Input VSWR                | 2:1 max                       |
| 8                    | Harmonics                 | -20 dBc typical @ 5 Watts     |
| 9                    | Spurious Signals          | < -60 dBc typical @ 5 Watts   |
| 10                   | Input/Output Impedance    | 50 Ohms nominal               |
| 11                   | DC Input Current (w/Fans) | 6.0 Amps max                  |
| 12                   | DC Input                  | 28 VDC nominal                |
| 13                   | RF Input                  | 0 dBm max                     |
| 14                   | RF Input Signal Format    | CW/AM/FM/PM/Pulse             |
| 15                   | Class of Operation        | AB                            |
| <b>Mechanical</b>    |                           |                               |
| 16                   | Dimensions (w/Heatsink)   | 8.7" x 5.2" x 3.5"            |
| 17                   | Weight (w/Heatsink)       | 6 lb. max                     |
| 18                   | Connectors                | SMA female                    |
| 19                   | Grounding                 | Chassis                       |
| 20                   | Cooling                   | Adequate Airflow Required     |
| <b>Environmental</b> |                           |                               |
| 21                   | Operating 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.



### FEATURES:

Heatsink and Fans Included (Not Shown)