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## MODEL 5803056-002

**2.0-20 MHz**  
**80 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

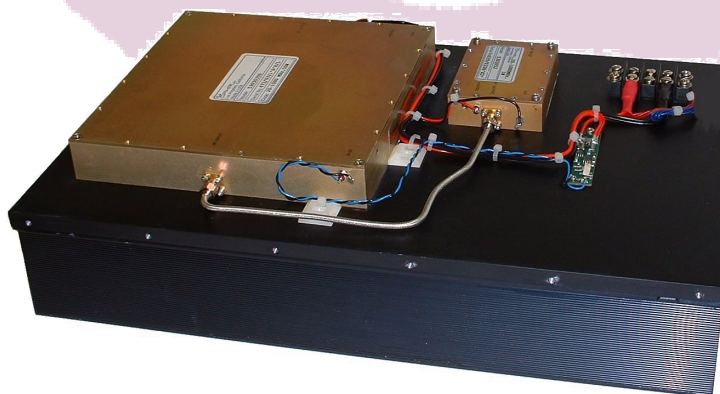
The 5803056-002 is a 80 Watt broadband amplifier that covers the 2.0-20MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> order intercept point, high gain, and a wide dynamic range.

This module is matched with a driver and mounted to a heatsink with integrated cooling fans

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 5803056-002 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

Specifications subject to change without notice.

|                      | Parameter                | Specification @ 25° C               |
|----------------------|--------------------------|-------------------------------------|
| <b>Electrical</b>    |                          |                                     |
| 1                    | Frequency Range          | 2.0-20 MHz                          |
| 2                    | Power Output @ 1dB Comp. | 80 Watts minimum                    |
| 3                    | Small Signal Gain        | +50 dB min                          |
| 4                    | Gain Flatness            | ± 1.0dB max                         |
| 5                    | IP <sub>3</sub>          | +53 dBm typical                     |
| 6                    | Input VSWR               | 2:1 max                             |
| 7                    | Harmonics                | -20 dBc typical @ 80 Watts          |
| 8                    | Spurious Signals         | > -60 dBc typical @ 80Watts         |
| 9                    | Input/Output Impedance   | 50 Ohms nominal                     |
| 10                   | DC Input Current         | 12 Amps max                         |
| 11                   | DC Input                 | 28 VDC nominal                      |
| 12                   | RF Input                 | +0 dBm nominal for full rated power |
| 13                   | RF Input Signal Format   | CW/AM/FM/PM/Pulse                   |
| 14                   | Class of Operation       | AB                                  |
| <b>Mechanical</b>    |                          |                                     |
| 15                   | Dimensions               | 9.8" x 16.0" x 4.1"                 |
| 16                   | Weight                   | 24 lb. max                          |
| 17                   | Connectors               | SMA female                          |
| 18                   | Grounding                | Chassis                             |
| 19                   | Cooling                  | Adequate Heatsink Required          |
| <b>Environmental</b> |                          |                                     |
| 20                   | Operating Temperature    | 0° C to +50° C                      |
| 21                   | Operating Humidity       | 95% Non-condensing                  |
| 22                   | Operating Altitude       | Up to 10,000' Above Sea Level       |
| 23                   | Shock and Vibration      | Normal Truck Transport              |



( Similar Heatsink Assembly )

