



5300 Beethoven Street, Los Angeles, CA 90066  
 TEL: (310)306-5556 • FAX: (310)577-9887  
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

**MODEL 5803011A**

**0.8 - 2.0 GHz**  
**25 WATTS**

### Solid State Broadband High Power RF Amplifier

The 5803011A is a 25 Watt broadband amplifier that covers the 0.8 – 2.0 GHz 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 5803011A comes with an extended

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	0.8 – 2.0 GHz
2	Saturated Output Power	25 Watts typical
3	Power Output @ 1dB Comp.	20 Watts min
4	Small Signal Gain	+17 dB min
5	Gain Flatness	± 1.5 dB max
6	IP <sub>3</sub>	+53 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 20 Watts
9	Spurious Signals	> -60 dBc typical @ 20 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	14 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+27 dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<b>Mechanical</b>		
16	Dimensions (w/Heatsink)	10.0" x 6.2" x 3.5"
17	Weight (w/Heatsink)	20 lbs. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b>Environmental</b>		
21	Baseplate Temperature	0° C to +50C
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)