



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 5803039A-001**  
**1.0 - 1000 MHz**  
**50 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5803039A-001 is a heatsink assembly which consists of the 5303039A and 5303065 module amplifiers.

This system provides 50 Watts across the 1.0 – 1000 MHz frequency range. This small and lightweight system 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 5803039A-001 comes with an extended warranty.

	<u>Parameter</u>	<u>Specifications @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	1.0 – 1000 MHz
2	Saturated Output Power	50 Watts typical
3	Power Output @ 1dB Comp.	30 Watts min
4	Small Signal Gain	+50 dB min
5	Gain Flatness	± 2.0 dB max
6	IP <sub>3</sub>	+51 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 30 Watts
9	Spurious Signals	<-60 dBc typical @ 30 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	18 Amps max
12	DC Inputs	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><u>Mechanical</u></b>		
16	Dimensions (with Heatsink)	17.5" x 9.8" x 4.1"
17	Weight (with Heatsink)	23 Lbs.
18	RF Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Ventilation Required
<b><u>Environmental</u></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.