



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 5803033-001

**500 – 1000 MHz
 200 WATTS
 LINEAR POWER RF AMPLIFIER**

Solid State Band-Specific High Power RF Amplifier

The 5803033-001 is a heatsink assembly which consists of a driver module and a final stage module.

This system provides 200 Watts across the 500 – 1000 MHz frequency range. This small and lightweight system utilizes Class A/AB linear power devices that provide an excellent 3rd 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_{RF} amplifiers, the 5803033-001 comes with an extended warranty.

	Parameter	Specifications @ 25° C
<u>Electrical</u>		
1	Frequency Range	500 – 1000 MHz
2	Saturated Output Power	200 Watts typical
3	Power Output @ 1dB Comp.	125 Watts min
4	Small Signal Gain	+53 dB min
5	Gain Flatness	± 1.5 dB max
6	IP ₃	+56 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 125 Watts
9	Spurious Signals	-60 dBc typical @ 125 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	30 Amps
12	DC Inputs	28 VDC
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<u>Mechanical</u>		
16	Dimensions (with Heatsink)	9.8" x 16.0" x 4.1"
17	Weight (with Heatsink)	25 lbs. max
18	RF Connectors	SMA female input Type N female output
19	Grounding	Chassis
20	Cooling	Adequate Airflow Required
<u>Environmental</u>		
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

SPECIAL FEATURES

- ◇ Over Current Protection
- ◇ Terminal Block for easy DC Connections
- ◇ Fans
- ◇ Heatsink



(Similar Heatsink Assembly)

Specifications subject to change without notice