



5300 Beethoven Street, Los Angeles, CA 90066  
TEL: (310)306-5556 • FAX: (310)821-7413  
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

## MODEL 5800796-400

**400 - 450 MHz**  
**100 WATTS**  
**LINEAR POWER RF AMPLIFIER**

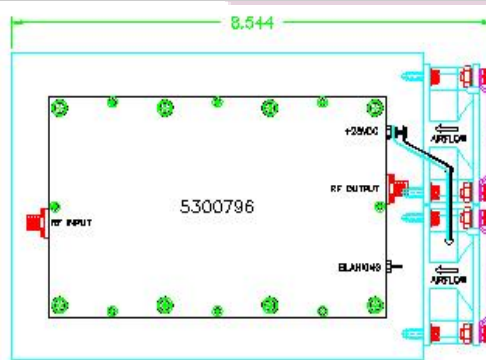
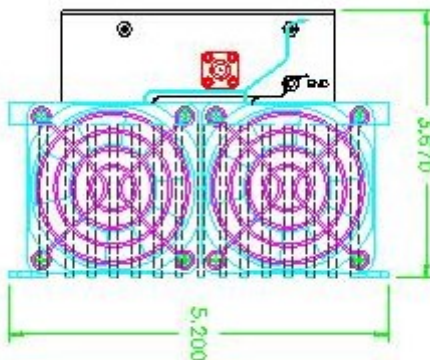
### Solid State Broadband High Power RF Amplifier

The 5800796-400 is a 100 Watt broadband amplifier that covers the 400 – 450 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 5800796-400 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	400 – 450 MHz
2	Saturated Output Power	100 Watts typical
3	Power Output @ 1dB Comp.	60 Watts min
4	Small Signal Gain	+52dB min
5	Gain Flatness	+/- 1.5dB max @ small signal +/- 1dB @ power
6	IP <sub>3</sub>	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 60 Watts
9	Spurious Signals	< -60 dBc typical @ 60 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	12Amps max 2 Amp max @ blanked
12	DC Input	29 VDC nominal
13	RF Input	0 dBm max
14	Blanking - TTL	"High": un-blanked "Low": Blanked
15	Blanking Speed	100uS
<b>Mechanical</b>		
16	Dimensions	8.6" x 3.7" x 5.2"
17	Weight	8 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b>Environmental</b>		
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

Specifications subject to change without notice.



Approved By: \_\_\_\_\_ Date: \_\_\_\_\_