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**MODEL 5300796**  
**20 - 500 MHz**  
**100 WATTS**  
**LINEAR POWER RF AMPLIFIER**

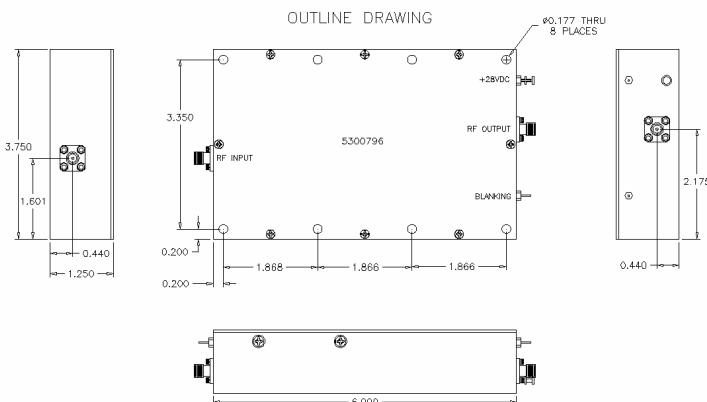
**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5300796 is a 100 Watt broadband amplifier that covers the 20 – 500 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 5300796 comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	20 – 500 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	11Amps max 1 Amp max @ blanked
12	DC Input	28 VDC nominal
13	RF Input	0 dBm max
14	Blanking - TTL	“High”: un-blanked “Low”: Blanked
15	Blanking Speed	100uS
<b><u>Mechanical</u></b>		
16	Dimensions	6” x 3.75” x 1.25”
17	Weight	2 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></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: -