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500 - 1000 MHz 20 WATTS

**MODEL 5803021A** 

## **Solid State Broadband High Power RF Amplifier**

The 5803021A is a 20 Watt broadband amplifier that covers the 500 - 1000 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide 3<sup>rd</sup> excellent order an 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 Like all OPHIR<sub>RF</sub> reliability. 5803021A amplifiers, the comes with an extended

	<u>Parameter</u>	Specification @ 25° C
Electrical		
1	Frequency Range	500 – 1000 MHz
2	Saturated Output Power	20 Watts typical
3	Power Output @ 1dB Comp.	13 Watts min
4	Small Signal Gain	+44 dB min
5	Gain Flatness	<u>+</u> 1.5 dB max
6	IP <sub>3</sub>	+48 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 13 Watts
9	Spurious Signals	> -60 dBc typical @ 13 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	4 Amps max
12	DC Input	28 VDC nominal
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 (w/Heatsink)	8.7" x 5.2" x 3.5"
17	Weight (w/Heatsink)	6 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Airflow Required
<u>Environmental</u>		
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 (Not Shown)