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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 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 5803039A-001 comes with an extended warranty.

	Parameter	Specifications @ 25° C
Electrical		
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 ₃	+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
Mechanical		
16	Dimensions (with Heatsink)	17.5" x 9.8" x 4.1"
17	Weight (with Heatsink)	22 lbs. max
18	RF Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Ventilation Required
Environmental		
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.