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MODEL 5803092-003

2 - 30 MHz
100 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5803092-003 is a 100 Watt broadband amplifier system that covers the 2.0 – 30 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 5803092-003 comes with an extended warranty.

	Parameter	Specifications @ 25° C
Electrical		
1	Frequency Range	2 – 30 MHz
2	Rated Output Power	100 Watts Min
4	Small Signal Gain	+51 dB min
5	Gain Flatness	± 1.5 dB max
6	IP ₃	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 100 Watts
9	Spurious Signals	> -60 dBc typical @ 100 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input	28 VDC nominal
12	Input Current for 28 VDC	10 Amps max @ 100 Watts
13	RF Input	+0 dBm max
16	Class of Operation	AB
Mechanical		
17	Dimensions (with Heatsink)	10.8" x 6.2" x 5.0"
18	Weight (with Heatsink)	15 lb. max
19	Input/Output RF Connectors	SMA female / Type-N
20	Grounding	Chassis
21	Cooling	Adequate Airflow Required
Environmental		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice

Compact Bench Top Model
Includes Heatsink and Fans

