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MODEL 5803084

0.5 - 3 GHz
50 WATTS
POWER RF AMPLIFIER
On Heatsink with Fans

Solid State Broadband High Power RF Amplifier

The 5803084 is a 50 Watt broadband amplifier that covers the 0.5 – 3 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent efficiency, 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.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	0.5– 3 GHz
2	Saturated Output Power	50 Watts typ
4	Small Signal Gain	+48 dB min
5	Power Gain Flatness	± 2.0 dB max
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical
9	Spurious Signals	< -60 dBc typical
10	Remote shut down	5V to Enable 0V to Disable
11	Blanking	TTL, 5uS On/Off
11	DC Consumption	350W maximum
12	DC Input Voltage	28V-48V
13	Temp Indication	Analog voltage reporting with LM35 or equivalent
14	Current Indication	Analog voltage reporting
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
<u>Mechanical</u>		
17	Dimensions	10.5" x 6.1" x 4.5"
18	Weight	12 Lbs.
29	Connectors	SMA female for RF Feed Thru for DC, control, and indications
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
22	Baseplate Temperature	-20° C to +85° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	MIL-STD-810F

