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MODEL 5803084-028

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.

The 5803084 module has an operating frequency range of 0.5 - 3.0 GHz, with the external Isolator, the module can only be used with the bandwidth of the isolator (2 - 4 GHz).



	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	0.5– 3 GHz
2	Saturated Output Power	50 Watts typical
4	Small Signal Gain	+48 dB min
5	Power Gain Flatness	± 1.5 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	50V
13	Over voltage protection	Above 52V, Latched, re-settable using a TTL command
14	Temp Indication	Analog voltage reporting with LM35 or equivalent
15	Current Indication	Analog voltage reporting
16	RF Input Signal Format	CW/AM/FM/PM/Pulse
17	Class of Operation	A/AB
<u>Mechanical</u>		
18	Dimensions	10.5" x 6.1" x 4.5"
19	Weight	8 lb. max
20	Connectors	SMA female for RF Feed Thru for DC, control, and indications
21	Grounding	Chassis
22	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
23	Baseplate Temperature	-20° C to +85° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	MIL-STD-810F

Options Included

- ◇ External Fans to be powered by end-user
- ◇ External High Power Isolator, works from 2 - 4 GHz

Specifications subject to change without notice