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MODEL 5803098

2.5 - 5.5 GHz
50 WATTS
POWER RF AMPLIFIER
On Heatsink with Fans

Solid State Broadband High Power RF Amplifier

The 5803098 is a 50 Watt broadband amplifier that covers the 2.5 – 5.5 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.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	2.5– 5.5 GHz
2	Saturated Output Power	50 Watts typ
3	Output power @ P1dB	16 Watts min.
4	Small Signal Gain	+60 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical
9	Spurious Signals	> -60 dBc typical
11	DC Consumption	400W maximum
12	DC Input Voltage	12V External 12V PS is provided
16	RF Input Signal Format	CW/AM/FM/PM/Pulse
17	Class of Operation	A/AB
<u>Mechanical</u>		
18	Dimensions	PA 20" x 10" x 6" PS 12" x 5" x 3.5"
20	Connectors	SMA female for RF Output SMA female for RF In Wires for DC
21	Grounding	Chassis
22	Cooling	Internal Forced Air
<u>Environmental</u>		
23	Baseplate Temperature	0° C to +50° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	MIL-STD-810F