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MODEL 5803107
20 - 1000 MHz
170 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5803107 is a 170 Watt broadband amplifier that covers the 20 – 1000 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd order intercept point, high gain, and a wide dynamic range.

The 5803107 comes with Heatsink and Fan.

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	20 – 1000 MHz
2	Output power @ Psat	170 Watts min
3	Small Signal Gain	+55 dB min
4	Small Signal Gain Flatness	+/-1.5 dB max
5	Input VSWR	2:1 max
6	Harmonics	-20 dBc max
7	Spurious Signals	-60 dBc max
8	Input/Output Impedance	50 Ohms nominal
9	DC Input Power	14A max
10	DC Input	50 VDC
12	RF Input Power	0 dBm nominal
13	Class of Operation	A/AB
14	Interface	D-sub
15	Module Enable	TTL : 5V for enable
16	Module Blanking	TTL : 5V for un-blank 5uS on/off, off/on
17	Temperature Indication	LM35 1V/10°C

<u>Mechanical</u>		
18	Dimensions	12" x 8" x 5"
19	Weight	25 lb. max
20	Connectors	SMA for RF input Type-N for RF Output D-sub for control & indications Ground lag for Ground
21	Grounding	Chassis
22	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
24	Ambient Temperature	-20° C to +65° C
25	Operating Humidity	95% Non-condensing
26	Operating Altitude	Up to 10,000' Above Sea Level
27	Shock and Vibration	Normal Truck Transport



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Pin	Description
1	+50 V
2	+50 V
3	NC
4	Fans
5	Temp Indication
6	+50 V
7	+50 V
8	Blanking
9	Enable