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MODEL 5803106
0.01 - 50 MHz
200 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5803106 is a 200 Watt broadband amplifier that covers the 0.01 – 50 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 5803106 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	0.01 – 50 MHz
2	Output power @ Psat	200 Watts min*
3	Power Output @ 1dB Comp.	100 Watts min*
4	Small Signal Gain	+51 dB min
5	Small Signal Gain Flatness	+/-1.5 dB max
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc max
8	Spurious Signals	< -60 dBc
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Power	14A max*
12	DC Input	32 to 42 Vdc
13	RF Input Power	0 dBm nominal +3 dBm maximum
14	Class of Operation	A/AB
15	Interface	D-sub (2x)
16	Module Enable	3-5 Vdc = Enable <0.5 Vdc = Off
17	Temperature Indication	LM35 0.1V/10°C
<u>Mechanical</u>		
18	Dimensions	17" x 10" x 5"
19	Weight	25 lb. max
20	Connectors	SMA for RF input Type-N for RF Output D-sub for control & indications Ground lug for Ground
21	Grounding	Chassis
22	Cooling	Adequate Heatsink and Fans supplied
<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

D-Sub 1		D-Sub 2	
Pin	Description	Pin	Description
1	+32 to 42	1	NC
2	+32 to 42	2	NC
3	NC	3	NC
4	NC	4	NC
5	NC	5	Temp Indication
6	+32 to 42	6	NC
7	+32 to 42	7	NC
8	NC	8	NC
9	NC	9	Enable/Disable

Specifications subject to change without notice

*Data taken at +42 Vdc input