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MODEL 5803138A

800 - 2000 MHz
200 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5803138A is a 200 Watt broadband amplifier that covers the 800 – 2000 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 5803138A comes with Heatsink and Fan. (Fans operate on 12VDC).

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

Specifications subject to change without notice

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	800 – 2000 MHz
2	Output power @ Psat	200 Watts typical*
3	Output power @ P1dB	100 Watts min*
4	Small Signal Gain	+55 dB min
5	Small Signal Gain Flatness	+/-2.0 dB max
6	Input /Output VSWR	2:1 max
7	Harmonics	-20 dBc max @ 100 W
8	Spurious Signals	-60 dBc max @ 100 W
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Power	15 A max @ 48 Vdc
11	DC Input	36 - 48 Vdc
12	RF Input Power	0 dBm nominal
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
15	Interface	D-sub
17	Module Enable	3-5 Vdc = enable Open or <0.5 Vdc = disabled
18	Temperature Indication	LM35: 0.1V/10°C
Mechanical		
19	Dimensions	17" x 6.5" x 5"
20	Weight	25 lb. max
21	Connectors	SMA for RF input Type-N for RF Output D-sub for control & indications Ground lug for Ground
22	Grounding	Chassis
23	Cooling	Adequate Airflow Required
Environmental		
24	Ambient Temperature	0° C to +40° 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 Pin:	Description:
1	+36-48 Vdc input
2	+36-48 Vdc input
3	NC
4	NC
5	Temp Indication
6	+36-48 Vdc input
7	+36-48 Vdc input
8	NC
9	Enable/Disable

* data taken at 42 Vdc input

Approved by:_____

Date: _____

02/13