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MODEL 5803108A-025

800 - 2500 MHz

100 WATTS

LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5803108A-025 is a 100 Watt broadband amplifier that covers the 800 – 2500 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 5803108A-025 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

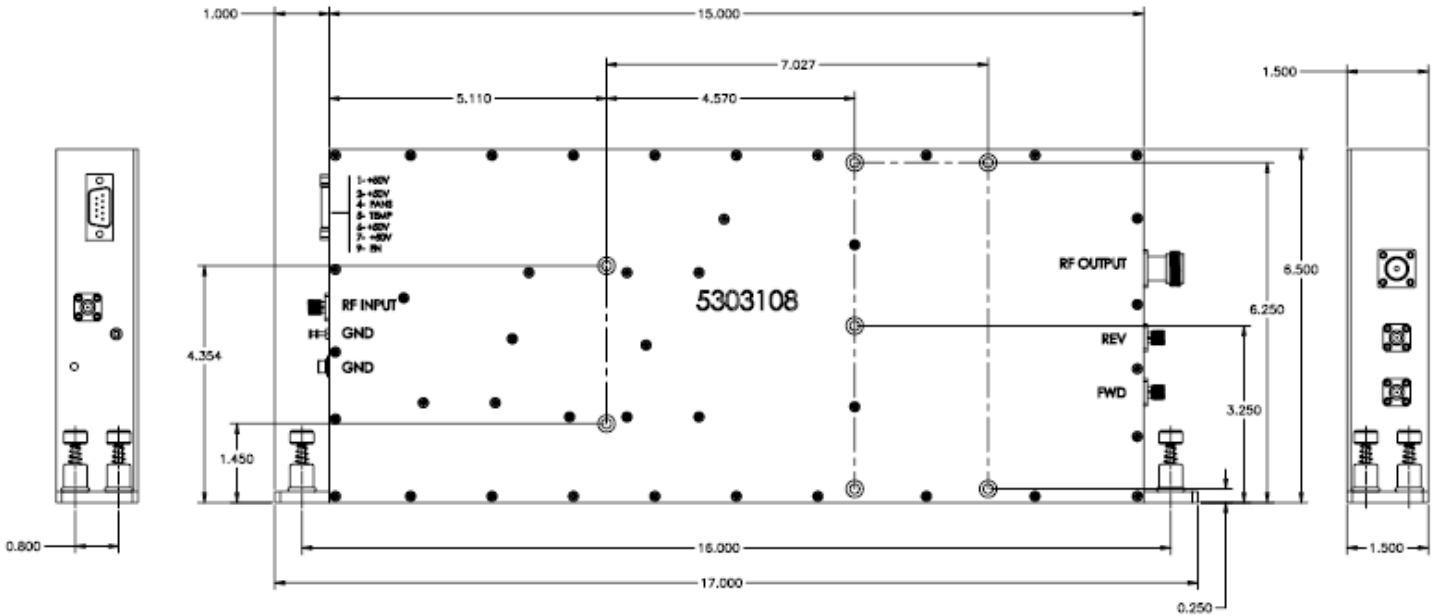
	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	800 – 2500 MHz
2	Output power @ Psat	100 Watts typical*
3	Output power @ P1dB	50 Watts min*
4	Small Signal Gain	+52 dB min
5	Small Signal Gain Flatness	+/-3.0 dB max
6	Input /Output VSWR	2:1 max
7	Harmonics	-20 dBc max
8	Spurious Signals	-60 dBc max
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Power	18A max
11	DC Input	32 - 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
16	Module Enable	TTL : 5V for enable
17	Temperature Indication	LM35 0.1V/10°C
<u>Mechanical</u>		
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 lag for Ground
22	Grounding	Chassis
23	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
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

* = Rated power at 48VDC operation



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Pin	Description
1	+32 - 48 VDC
2	+32 - 48 VDC
3	NC
4	NC
5	Temp Indication
6	+32 - 48 VDC
7	+32 - 48 VDC
8	NC
9	Enable

