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MODEL 5803108-028

**1000 - 2000 MHz
80 WATTS
LINEAR POWER RF AMPLIFIER**

Solid State Broadband High Power RF Amplifier

The 5803108-028 is a 80 Watt broadband amplifier that covers the 1000 – 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 5803108-028 includes a built in Dual directional coupler which provides forward and reflected RF sample.

The 5803108-028 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.

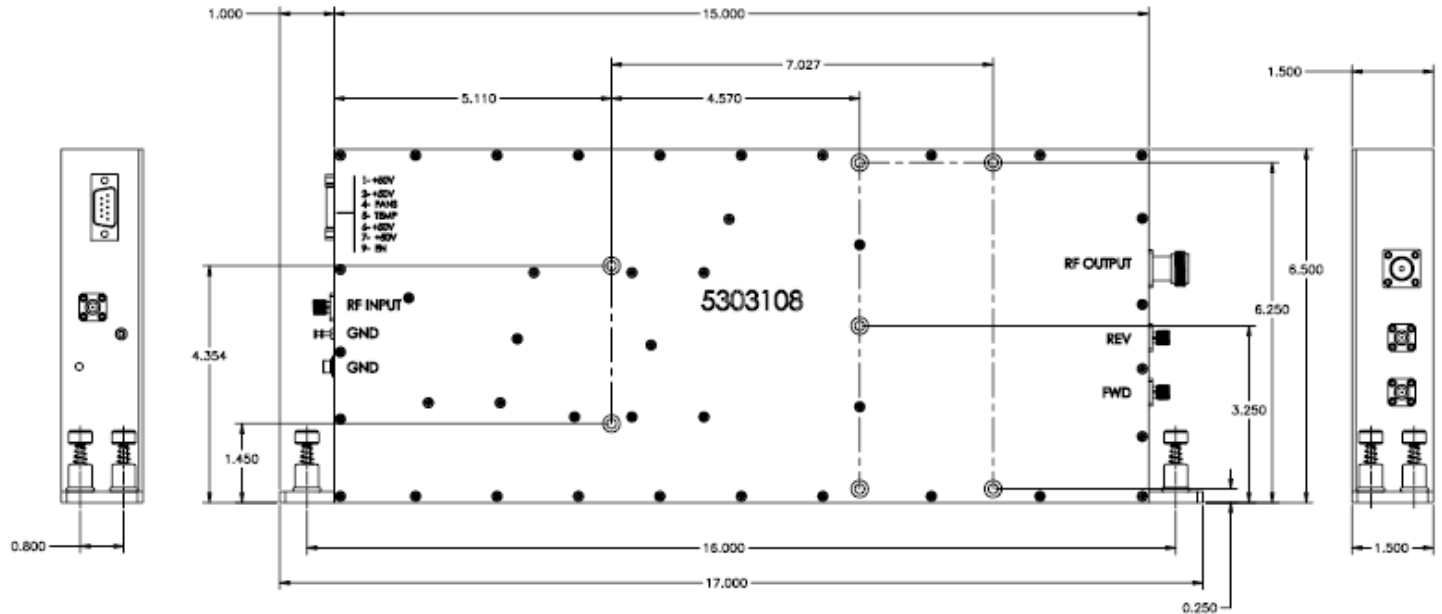
	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	1000 – 2000 MHz
2	Output power @ Psat	80 Watts typical
3	Output power @ P1dB	50 Watts min
4	Small Signal Gain	+54 dB min
5	Small Signal Gain Flatness	+/-1.5 dB max
6	Input /Output VSWR	2:1 max
7	Harmonics	-20 dBc max
8	Spurious Signals	-60 dBc max
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Power	15A max
11	DC Input	28 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	Coupler output	Forward and Reverse 30dB +/-2dB
18	Temperature Indication	LM35 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



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Pin	Description
1	+28 V
2	+28 V
3	NC
4	Fans
5	Temp Indication
6	+28 V
7	+28 V
8	NC
9	Enable

