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MODEL 5303107

20-1000 MHz
150 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303107 is a 150 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.

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
<u>Electrical</u>		
1	Frequency Range	20-1000 MHz
2	Output power @ Psat	150 Watts typical
3	Small Signal Gain	+53 dB min
4	Small Signal Gain Flatness	+/-2.5 dB max
5	Input /Output 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	20A max
10	DC Input	50 VDC
11	RF Input Power	0 dBm nominal
12	RF Input Signal Format	CW/AM/FM/PM/Pulse
13	Class of Operation	A/AB
14	Interface	D-sub
<u>Mechanical</u>		
15	Dimensions	12" x 6.5" x 1"
16	Weight	10 lb. max
17	Connectors	Type-N for RF Filtered D-sub for control and indications
18	Grounding	Chassis
19	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
20	Baseplate Temperature	-20° C to +71° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

