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Solid State Broadband High Power RF Amplifier

The 5303119 is a 100 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 efficiency, 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.



MODEL 5303119

**20-1000 MHz
100 WATTS
POWER RF AMPLIFIER**

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	20-1000 MHz
2	Saturated Output Power	80 Watts Minimum across the entire frequency band 100 Watts typical
4	Small Signal Gain	+53 dB min
5	Power Flatness	± 1.5dB max
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical
9	Spurious Signals	< -60 dBc typical
10	Remote shut down	5V to Enable 0V to Disable
11	Blanking	TTL "High" is Enable TTL "Low" is blanked
12	Blanking speed	5uS typ. On/Off, Off/On
13	DC Consumption	300W maximum at 80 Watt Output
14	DC Input Voltage	28VDC +/- 2V
15	RF Input drive required For full rated power	0dBm nominal
16	RF Input Signal Format	CW/AM/FM/PM/Pulse
17	Class of Operation	A/AB
Mechanical		
18	Dimensions (L x W x H)	6.4" x 3.4" x 1.25"
19	Weight	3 lb. max
20	Connectors	SMA female for RF D-Sub Connector for DC
21	Grounding	Chassis
22	Cooling	Adequate Heatsink Required
Environmental		
23	Base plate Temperature	-40° C to +85° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	MIL-STD-810F

Specifications subject to change without notice

Options

Input DC voltage range of 18-36VDC.
 Power Consumption Will increase by 15%.
 Size will also increase.