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MODEL 5304031

**0.5 - 2.5 GHz
50 WATTS
POWER RF AMPLIFIER**

Solid State Broadband High Power RF Amplifier

The 5304031 is a 50 Watt broadband amplifier that covers the 0.5 – 2.5 GHz frequency range. This small and lightweight amplifier utilizes Class A 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.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.5– 3 GHz
2	Saturated Output Power	50 Watts min.
3	Small Signal Gain	+66 dB min
4	Power Gain Flatness	± 1.5 dB max
5	IMP ₃	-65dBc @ 20dBm Output
6	Input VSWR	2:1 max
7	Harmonics	-15 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Noise Figure	3.0dB
10	Remote shut down	5V to Enable 0V to Disable
11	DC Input Current	11A Max
12	DC Input Voltage	24VDC nominal
13	RF Input	-20dBm nominal
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A
Mechanical		
15	Dimensions	6.0" x 5.0" x 1.1"***
16	Weight	2 lb. max
17	Connectors	SMA female for RF Feed Thru for DC, control, and indications
18	Grounding	Chassis
19	Cooling	Adequate Heatsink Required
Environmental		
20	Baseplate Temperature	-40° C to +85° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	MIL-STD-810F

Specifications subject to change without notice



**Size of 5304030, 5304031, and 5304032 can be modified to be identical