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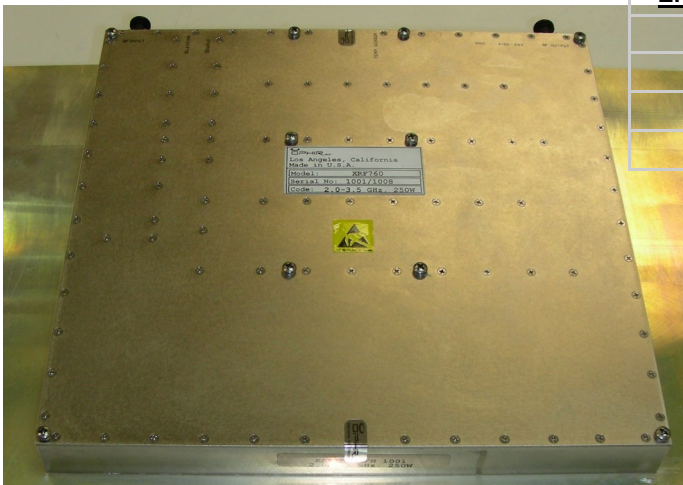
5303131
2.9-3.1GHz
200 WATTS
HIGH POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303131 is a 200 Watt broadband amplifier that covers the 2.9-3.1 GHz 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
Electrical		
1	Frequency Range	2.7 – 3.1 GHz
2	Peak Output Power	200 Watts min.
3	Pulse Duration	5 μ s RF max.
4	RF Rise/Fall Time	50 ns max.
	Duty Cycle	1% maximum
5	Power Gain	+55 dB min.
6	Power Gain Flatness	$\pm$ 1.5 dB max.
7	Input and Output VSWR	2:1 max.
8	Harmonics	-20 dBc max.
9	Spurious Signals	< -60 dBc max.
10	Remote Enable	5V to Enable 0V to Disable
11	TTL Gate Control	5V to Enable 0V to Disable 500 ns typ. On/Off
12	DC Input Voltage	+28V
13	Efficiency at Peak Power	25% min.
14	RF Input Signal Format	Pulse
15	Class of Operation	AB
16	Reverse Power Protection	Internal Isolator
Mechanical		
17	Dimensions	6" x 10" x 3.5" max w/ Heat sink and Fans
18	Weight	5 lb. max
19	Connectors	SMA for RF Input N Type for RF Output 15-pin D-Sub for DC Power and Signals
20	Grounding	Chassis
21	Cooling	Includes Heat Sink And Fans
Environmental		
22	Baseplate Temperature	-20° C to +85° C
23	Operating Humidity	100% Condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

SPECIAL FEATURES

- ♦ Excellent Pulsed Performance
- ♦ 500nSec TTL Blanking Speed (Typical)
- ♦ 50nSec RF Rise and Fall (Typical)