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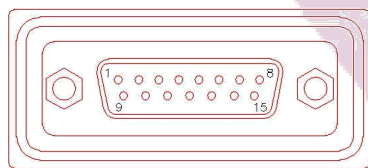
MODEL 5304044

2.7-3.0 GHz
200 WATTS
PULSE RF AMPLIFIER

Solid State High Power Pulse RF Amplifier

The 5304044 is a 200 Watt pulse amplifier that covers the 2.7 -3.0 GHz frequency range. This small and lightweight amplifier utilizes Class 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



D-SUB15 PIN NUMBER IDENTIFICATION

D-SUB15 PIN TO POINT WIRE CONNECTION LEGEND

D-SUB15 PIN #	FUNCTION	POINTS	WIRE COLOR / GAUGE
1	+28VDC	PT1	RED 24AWG
2	+28VDC	PT2	RED 24AWG
3	+28VDC	PT3	RED 24AWG
4	+28VDC	PT4	RED 24AWG
5	GND	PT5	BLK 24AWG
6	GND	PT5	BLK 24AWG
7	GND	PT5	BLK 24AWG
8	ON/OFF	PT6	BLU 24AWG
9	+28VDC	PT1	RED 24AWG
10	+28VDC	PT2	RED 24AWG
11	+28VDC	PT4	RED 24AWG
12	GND	PT5	BLK 24AWG
13	GND	PT5	BLK 24AWG
14	GATE(TTL)	PT7	GRN 24AWG
15	GND	PT5	BLK 24AWG

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2.7 – 3.0 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. $\pm$ 0.75 dB typical
7	Input and Output VSWR	2:1 max.
8	Harmonics	-20 dBc max. -40dBc typical
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 +50° C
23	Operating Humidity	95% Non-Condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	MIL-STD-810F (Method 516.4)

Specifications subject to change without notice



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