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MODEL 5123R-007

250 - 500 MHz

100 WATTS

RF AMPLIFIER FOR NMR

Solid State Broadband High Power RF Amplifier

The 5123R-007 is a 100 Watt broadband amplifier that covers the 250 – 500 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an pulse performance for NMR application.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

<u>Electrical</u>	<u>Parameter</u>	<u>Specification @ 25° C</u>
1	Frequency Range	200 – 500 MHz
2	Saturated Output Power	100 Watts min
3	Power Output @ 1dB Comp.	80 Watts min
4	Small Signal Gain	+51 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	Blanking	TTL
7	Blanking Isolation	50dB min
8	Blanking speed	20uS Off to On 5uS On to Off
9	Input VSWR	2:1 max
10	Harmonics	-20 dBc typical @ 80 Watts
11	Spurious Signals	> -60 dBc typical @ 80 Watts
12	Blanking	TTL
13	AC Input Power	600 Watts max
14	AC Input	100 – 240 VAC, single phase
15	RF Input	0 dBm Max
16	Pulse Droop @ 10uS pulse	0.25dB Maximum
<u>Mechanical</u>		
17	Dimensions	19" x 5.25" x 20"
18	Weight	36 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<u>Environmental</u>		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Open and Short Protection

CONTROL & INDICATIONS

- ◇ AC Circuit Breaker
- ◇ TTL Control for Blanking (BNC)
- ◇ Temperature Fault

