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MODEL 6005
700 - 900 MHz
200 WATTS
RF AMPLIFIER FOR NMR

Solid State Broadband High Power RF Amplifier

The 6005 is a 200 Watt broadband amplifier that covers the 700 – 900 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	700 – 900 MHz
2	Saturated Output Power	200 Watts min
3	Power Output @ 1dB Comp.	120 Watts min
4	Small Signal Gain	+54 dB min
5	Small Signal Gain Flatness	± 1.5 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 @ 120 Watts
11	Spurious Signals	> -60 dBc typical @ 120 Watts
12	Blanking	TTL
13	AC Input Power	1250 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 7" x 20"
18	Weight	60 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

