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MODEL 6008

**.150 - 200 MHz
20 WATTS
RF AMPLIFIER FOR NMR**

Solid State Broadband High Power RF Amplifier

The 6008 is a 20 Watt broadband amplifier that covers the .150 – 200 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.

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

CONTROL & INDICATIONS

- ◇ AC Circuit Breaker
- ◇ Temperature Fault

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors

<u>Electrical</u>	<u>Parameter</u>	<u>Specification @ 25° C</u>
1	Frequency Range	0.15 – 200 MHz
2	Saturated Output Power	20 Watts typical
3	Power Output @ 1dB Comp.	12 Watts min
4	Small Signal Gain	+44 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	RF Pulse Rise/Fall	250nS min
7	Pulse width	1µS min.
8	Duty Cycle	1% min.
9	Input VSWR	2:1 max
10	Harmonics	-20 dBc typical @ 12 Watts
11	Spurious Signals	< -60 dBc typical @ 12 Watts
12	RF Input Signal Format	Pulse/CW
13	AC Input Power	600 Watts max
14	AC Input	100 – 240 VAC, single phase
15	RF Input	0 dBm Maximum
16	Pulse Droop @ 1µS pulse	0.5dB Maximum
<u>Mechanical</u>		
17	Dimensions	19" x 3.5" x 18"
18	Weight	26 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

Specifications subject to change without notice.

