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MODEL 6012
650-850 MHz
500 WATTS
RF AMPLIFIER FOR NMR

**Solid State
 Broadband High
 Power RF Amplifier**

The 6012 is a 500 Watt broadband amplifier that covers the 650-850 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	650-850 MHz
2	Saturated Output Power	500 Watts typical
3	Power Output @ 1dB Comp.	250 Watts min
4	Small Signal Gain	+57 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	Blanking	TTL
7	Blanking Isolation	50dB min
8	Blanking speed	< 5uS typical
9	Input VSWR	2:1 max
10	Harmonics	-20 dBc @ 250 Watts
11	Spurious Signals	< -60 dBc typical @ 250 Watts
12	AC Input Power	3000 Watts max
13	AC Input	100 – 240 VAC, single phase
14	RF Input	0 dBm Max
	<u>Mechanical</u>	
15	Dimensions	19" x 8.75" x 26"
16	Weight	110 lb. max
17	Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
	<u>Environmental</u>	
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice

CIRCUIT PROTECTIONS

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

CONTROL & INDICATIONS

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

ORDERING MODELS

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

