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MODEL 6011
100 - 1000 MHz
250 WATTS
RF AMPLIFIER FOR NMR

**Solid State
 Broadband High
 Power RF Amplifier**

The 6011 is a 250 Watt broadband amplifier that covers the 100 – 1000 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 | 100 – 1000 MHz |
| 2 | Saturated Output Power | 250 Watts min |
| 3 | Power Output @ 1dB Comp. | 150 Watts min |
| 4 | Small Signal Gain | +55 dB min |
| 5 | Small Signal Gain Flatness | ± 2.5 dB max |
| 6 | Blanking | TTL |
| 7 | Rise and Fall time | 25nS typ. |
| 8 | Blanking Isolation | 50dB min |
| 9 | Blanking speed | 1uS Typ. |
| 10 | Input VSWR | 2:1 max |
| 11 | Harmonics | -20 dBc typical @ 150 Watts |
| 12 | Spurious Signals | > -60 dBc typical @ 150 Watts |
| 13 | AC Input Power | 2500 Watts max |
| 14 | AC Input | 180 – 240 VAC, single phase |
| 15 | RF Input | 0 dBm Max |
| 16 | Noise Figure | 10dB Max. |
| <u>Mechanical</u> | | |
| 17 | Dimensions | 19" x 10.5" x 26" |
| 18 | Weight | 130 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

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

