



5300 Beethoven Street, Los Angeles, CA 90066
 TEL: (310)306-5556 • FAX: (310)821-7413
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

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.

