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MODEL 6007

650-850 MHz

290 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 6007 is a 290 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 excellent 3rd order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR_{RF} amplifiers, the 6007 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS

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



| | Parameter | Specification @ 25° C |
|-----------------------------|----------------------------|---|
| <u>Electrical</u> | | |
| 1 | Frequency Range | 650-850 MHz |
| 2 | Saturated Output Power | 290 Watts Minimum Mid Band 225 Watts Minimum at Band Edges |
| 3 | Power Output @ 1dB Comp. | 150 Watts Minimum Mid Band 125 Watts Minimum at Band Edges |
| 4 | Small Signal Gain | +55 dB min |
| 5 | Small Signal Gain Flatness | ± 1.5 dB max |
| 6 | IP ₃ | +57 dBm typical |
| 7 | Input VSWR | 2:1 max |
| 8 | Harmonics | -20 dBc Minimum |
| 9 | Spurious Signals | < -60 dBc Minimum |
| 10 | Input/Output Impedance | 50 Ohms nominal |
| 11 | AC Input Power | 1250 Watts max |
| 12 | AC Input | 100 – 240 VAC, single phase |
| 13 | RF Input | 0 dBm max |
| 14 | RF Input Signal Format | Pulse |
| 15 | Class of Operation | A/AB |
| 16 | Duty Cycle | 0.5% |
| 17 | Pulse Width | 3.5 µSec |
| 18 | Rise/Fall Time | 150nSec |
| <u>Mechanical</u> | | |
| 16 | Dimensions | 19" x 7" x 20" |
| 17 | Weight | 60 lb. max |
| 18 | Connectors | Type-N |
| 19 | Grounding | Chassis |
| 20 | Cooling | Internal Forced Air |
| <u>Environmental</u> | | |
| 21 | Operating Temperature | 0° C to +50° C |
| 22 | Operating Humidity | 95% Non-condensing |
| 23 | Operating Altitude | Up to 10,000' Above Sea Level |
| 24 | Shock and Vibration | Normal Truck Transport |

Specifications subject to change without notice.

ORDERING MODELS

- ◇ R - Rear RF Connector Model
- ◇ F - Front RF Connector Model