



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 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



	<u>Parameter</u>	<u>Specification @ 25° C</u>
<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