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MODEL 4007

400 - 450 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4007 is a 1000 Watt band-specific amplifier that covers the 400 – 450 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 4007 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	400 – 450 MHz
2	Saturated Output Power	1000 Watts typical
3	Power Output @ 1dB Comp.	700 Watts min
4	Small Signal Gain	+62 dB min
5	Small Signal Gain Flatness	± 1.0 / ± 0.5 dB max
6	IP ₃	+66 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 700 Watts
9	Spurious Signals	> -60 dBc typical @ 700 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	3300 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	0 dBm typical
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<u>Mechanical</u>		
16	Dimensions	19" x 8.75" x 20"
17	Weight	85 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.

CIRCUIT PROTECTIONS

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

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors
- ◇ RE - Rear Panel Connectors and Control Option
- ◇ FE - Front Panel Connectors and Control Option



FE Model Shown