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Solid State Band-specific High Power RF Amplifier

The 4007-001 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 4007-001 comes with an extended

MODEL 4007-001

400 - 450 MHz

1000 WATTS

LINEAR POWER RF AMPLIFIER

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	400 – 450 MHz
2	Saturated Output Power	1000 Watts typical
3	Power Output @ 1dB Comp.	600 Watts min
4	Small Signal Gain	+62 dB min
5	Small Signal Gain Flatness	$\pm 1.0 / \pm 0.5$ dB max
6	IP ₃	+64 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 600 Watts
9	Spurious Signals	< -60 dBc typical @ 600 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	3300 Watts max
12	AC Input	180 – 264 VAC, three phase
13	RF Input	0 dBm typical
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
Mechanical		
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
Environmental		
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 MODEL

- ◊ RE - Rear panel connectors with Control Option RS-232 Interface



RE Model Shown