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**MODEL 4007-002**  
**400 - 450 MHz**  
**1000 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Band-specific High Power RF Amplifier

The 4007-002 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 3<sup>rd</sup> 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<sub>RF</sub> amplifiers, the 4007-002 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
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	± 1.0 dB max
6	IP <sub>3</sub>	+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 max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse**
15	Class of Operation	AB
<b>Mechanical</b>		
16	Dimensions	19" x 10.5" x 20"
17	Weight	85 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<b>Environmental</b>		
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.

### FEATURES:

- ◇ Thermal Overload Protection
- ◇ Over Current / Over Voltage
- ◇ RF Input Relay = 80 dB min isolation:  
 RF is enabled with the application of +28 VDC to the rear panel DB-9F conn.  
 Pin # 1 = +28 VDC, 115mA max  
 Pin # 2 = 28 VDC Return
- \*\*Pulse Width: 276µS, Duty Cycle: 6%

### ORDERING MODEL

- ◇ RE - Rear Panel Connectors w/Control Option

