



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 4010**  
**800 - 1000 MHz**  
**300 WATTS**  
**LINEAR POWER RF AMPLIFIER**

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

The 4010 is a 300 Watt band-specific amplifier that covers the 800 – 1000 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 4010 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	800 – 1000 MHz
2	Saturated Output Power	300 Watts typical
3	Power Output @ 1dB Comp.	150 Watts min
4	Small Signal Gain	+56 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	IP <sub>3</sub>	+58 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 150 Watts
9	Spurious Signals	> -60 dBc @ 150 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1600 Watts max
12	AC Input	180 – 265 VAC, single 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 8.75" x 20"
17	Weight	80 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.

**CIRCUIT PROTECTIONS**

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

**ORDERING MODELS**

- ◇ R - Rear Panel Connectors
  - ◇ F - Front Panel Connectors
  - ◇ RE - R model w/Control Option
  - ◇ FE - F model w/Control Option
  - ◇ RT - RE model w/Ethernet Interface
  - ◇ FT - FE model w/Ethernet Interface **FE Model Shown**
- Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

