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**MODEL 5002A**  
**0.8 - 2.0 GHz**  
**7 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5002A is a 7 Watt broadband amplifier that covers the 0.8 – 2.0 GHz 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 5002A comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification</u>
<b><u>Electrical</u></b>		
1	Frequency Range	0.8 – 2.0 GHz
2	Saturated Output Power	7 Watts typical
3	Power Output @ 1dB Comp.	5 Watts min
4	Small Signal Gain	+39 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	IP <sub>3</sub>	+47 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 5 Watts
9	Spurious Signals	> -60 dBc typical @ 5 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	100 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
16	Dimensions	19" x 3.5" x 18"
17	Weight	25 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<b><u>Environmental</u></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

**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



**RE Model Shown**