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MODEL 5022A

0.8 - 2.0 GHz 50 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5022A is a 50 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 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 5022A comes with an extended multiyear warranty.

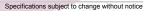
CIRCUIT PROTECTIONS

- ♦ Infinite Load VSWR
- ♦ Thermal Overload
- ♦ Over Current
- ♦ Over Voltage

ORDERI	NG	MOD	ELS

- ♦ 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

	<u>Parameter</u>	Specification @ 25° C	
<u>Electrical</u>			
1	Frequency Range	0.8 – 2.0 GHz	
2	Saturated Output Power	50 Watts typical	
3	Power Output @ 1dB Comp.	40 Watts min	
4	Small Signal Gain	+48 dB min	
5	Small Signal Gain Flatness	<u>+</u> 1.5 dB max	
6	IP ₃	+56 dBm typical	
7	Input VSWR	2:1 max	
8	Harmonics	-20 dBc typical @ 40 Watts	
9	Spurious Signals	> -60 dBc typical @ 40 Watts	
10	Input/Output Impedance	50 Ohms nominal	
11	AC Input Power	400 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	
<u>Mechanical</u>			
16	Dimensions	19" x 3.5" x 18"	
17	Weight	30 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	





RE Model Shown