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## **MODEL 5125**

20 - 1000 MHz 70 WATTS LINEAR POWER RF AMPLIFIER

# Solid State Broadband High Power RF Amplifier

The 5125 is a 70 Watt broadband amplifier that covers the 20 – 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 5125 comes with an extended multiyear warranty.

	<u>Parameter</u>	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	20 – 1000 MHz
2	Saturated Output Power	70 Watts typical
3	Power Output @ 1dB Comp.	40 Watts min
4	Small Signal Gain	+49 dB min
5	Small Signal Gain Flatness	<u>+</u> 2.0 dB max
6	IP <sub>3</sub>	+52 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	750 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<u>Mechanical</u>		
16	Dimensions	19" x 5.25" x 20"
17	Weight	48 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

#### CIRCUIT INDICATIONS

- ♦ Forward Power
- ♦ Reflected power
- ♦ VSWR Fault
- ♦ Temp Fault

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♦ Gain Setting (VVA) percentage

#### **CIRCUIT PROTECTIONS**

- ♦ Thermal Overload
- ♦ Over Current
- ♦ Over Voltage

### **ORDERING MODELS**

- ♦ RE R model with Ethernet, IEEE488 and RS232
- ♦ FE F model with Ethernet, IEEE488 and RS232



Specifications subject to change without notice.

Approved By: \_\_\_\_\_\_ Date: \_\_\_\_\_