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MODEL 5123-001

**200 - 450 MHz
125 WATTS
LINEAR POWER RF AMPLIFIER**

Solid State Broadband High Power RF Amplifier

The 5123-001 is a 150 Watt broadband amplifier that covers the 200 – 450 MHz 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 5123-001 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ VSWR Protection

Specifications subject to change without notice.

Rear Panel Connector D-SUB Connector

- ◇ Pin 1 Chassis Ground
- ◇ Pin 2-5 Signal Ground
- ◇ Pin 6 Fwd Power Sample
- ◇ Pin 7 Refl Power Sample
- ◇ Pin 8 Keying Input 0-0.7V Active/1.5-5V Blanked
- ◇ Fault Output Fault=5V, OK = 0V

<u>Electrical</u>	<u>Parameter</u>	<u>Specification @ 25° C</u>
1	Frequency Range	200 – 450 MHz
2	Saturated Output Power	150 Watts typical
3	Power Output @ 1dB Comp.	100 Watts min
4	Small Signal Gain	+52 dB min
5	Small Signal Gain Flatness Bain Flatness over 6MHz Band	+/- 2.0 dB max +/- 0.5dB max
6	IP ₃	+55 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-25 dBc typical @ 100 Watts
9	Spurious Signals	> -60 dBc typical @ 80 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	600 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
16	Blanking Rise and Fall times Logic Low is Blanked	5usec Off to On 3usec On to Off
17	Forward Power Display	Front Panel Mounted Analog Display
<u>Mechanical</u>		
18	Dimensions	19" x 3.5" x 20"
19	Weight	28 lb. max
20	Connectors	Type-N
21	Grounding	Chassis
22	Cooling	Internal Forced Air
<u>Environmental</u>		
23	Operating Temperature	-10° C to +60° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Mil-Std 810F Method 516.5



F Model Shown