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MODEL 5094-001
1 - 1000 MHz
4 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5094-001 is a 4 Watt broadband amplifier that covers the 1 – 1000 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 5094-001 comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	1 – 1000 MHz
2	Saturated Output Power	4 Watts Rated
3	Power Output @ 1dB Comp.	2 Watts min
4	Small Signal Gain	+36 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	Gain Adjustment	20dB range typical
7	IP ₃	+39 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 2 Watts
10	Spurious Signals	< -60 dBc typical @ 2 Watts
11	Input/Output Impedance	50 Ohms nominal
12	AC Input Power	100 Watts max
13	AC Input	100 – 240 VAC, single phase
14	RF Input	0 dBm
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	AB
<u>Mechanical</u>		
17	Dimensions	19" x 3.5" x 18"
18	Weight	40 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<u>Environmental</u>		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

CIRCUIT PROTECTIONS

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

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors

System Option:

Manual Gain Adjustment Knob on Front panel

Specifications subject to change without notice.