MODEL 5094

1 - 1000 MHz
4 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5094 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 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
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	IP_3	+39 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 2 Watts
9	Spurious Signals	< -60 dBc typical @ 2 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	0 dBm max without damage
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
Mechanical		
16	Dimensions	19" x 5.25" x 20"
17	Weight	25 Lbs.
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
21	Operating Temperature	0º C to +50º 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
◊ Over Current
◊ Over Voltage

ORDERING MODELS
◊ R   - Rear Panel Connectors
◊ F   - Front Panel Connectors
◊ RE   - R model w/Control Option
◊ FE   - F model w/Control Option

RE Model Shown