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MODEL 5090
500 - 1000 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5090 is a 1000 Watt broadband amplifier that covers the 500 – 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 5090 comes with an extended multiyear warranty.



	<u>Parameter</u>	<u>Specification</u>
<u>Electrical</u>		
1	Frequency Range	500 – 1000 MHz
2	Saturated Output Power	1000 Watts typical
3	Power Output @ 1dB Comp.	600 Watts min
4	Small Signal Gain	+61 dB min
5	Gain Flatness / with ALC	± 2.0 / ± 0.75 dB max
6	IP ₃	+66 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 1 dB comp.
9	Spurious Signals	> -60 dBc
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	TBD
12	AC Input	186 – 264 VAC, single phase
13	RF Input Overdrive	+10 dB over 1 dB Compression
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB Linear
<u>Mechanical</u>		
16	Dimensions	TBD
17	Weight	TBD
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 PROTECTIONS

- ◇ Infinite Load VSWR
- ◇ RF Input Overdrive
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

AVAILABLE OPTIONS

- ◇ LCD Digital Display
- ◇ IEEE-488 GPIB
- ◇ Gain Adjustment
- ◇ Automatic Level Control
- ◇ Extended Temperature Range
- ◇ Rear Panel Connectors
- ◇ Rack Mounting Slide
- ◇ Different Case Styles
- ◇ Three Phase Power Supply