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MODEL 5091

80 - 1000 MHz
700 WATTS ± 1.5 dB

Solid State Broadband High Power RF Amplifier

The 5091 is a high power broadband amplifier that covers the 80 – 1000 MHz frequency range. This 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 5091 comes with an extended multiyear warranty.



	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	80 – 1000 MHz
2	Saturated Output Power	700 Watts ± 1.5 dB typical
3	Small Signal Gain	+61 dB min
4	Gain Flatness @ -5 dB P _{in}	± 2.0 dB max
5	Input VSWR	2:1 max
6	Input/Output Impedance	50 Ohms nominal
7	AC Input Power	10 Kilo-Watts max
8	AC Input	100 – 240 VAC, three phase
9	RF Input	-5 dBm max
10	RF Input Signal Format	CW/AM/FM/PM/Pulse
11	Class of Operation	AB
Mechanical		
12	Dimensions	70" x 24" x 26"
13	Weight	750 lb. max
14	Connectors (Rear)	Type-N & 7-16 DIN (RF Out)
15	Grounding	Chassis
16	Cooling	Internal Forced Air
Environmental		
17	Operating Temperature	0° C to +50° C
18	Thermal Shutdown	80° C
19	Operating Humidity	95% Non-condensing
20	Operating Altitude	Up to 10,000' Above Sea Level
21	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

Typical RF Performance P_{in} = -5 dBm

