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MODEL 5087-100

10 kHz - 200 MHz **100 WATTS** LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5087-100 is a 100 Watt broadband amplifier that covers the 10 kHz - 200 MHz frequency range. This small lightweight and amplifier utilizes Class A/AB linear power devices that provide 3rd order excellent an intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced and devices components, this amplifier high efficiency achieves operation with proven reliability. Like all OPHIR_{RF} 5087-100 amplifiers, the comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS

- ♦ Thermal Overload
- ♦ Over Current
- ◊ Over Voltage

ORDERING MODELS

◊ R	- Rear Connectors
◊ F	- Front Connectors

	<u>Parameter</u>	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	0.01 – 200 MHz
2	Saturated Output Power	100 Watts Min
3	Power Output @ 1dB Comp.	95 Watts min
4	Small Signal Gain	+52 dB min
5	Small Signal Gain Flatness	<u>+</u> 2.0 dB max
6	IP ₃	+60 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 100 Watts
9	Spurious Signals	< -60 dBc typical @ 100 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1200 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
<u>Mechanical</u>		
16	Dimensions	19" x 8.75" x 20"
17	Weight	80 lb. max
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

Specifications subject to change without notice.

