



5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)821-7413
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5087-001

10 kHz - 230 MHz
250 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5087-001 is a 250 Watt broadband amplifier that covers the 10 kHz – 230 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.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.01 – 230 MHz
2	Saturated Output Power	250 Watts min
3	Power Output @ 1dB Comp.	175 Watts min
4	Small Signal Gain	+55 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	IP ₃	+60 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 175 Watts
9	Spurious Signals	> -60 dBc typical @ 175 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1200 Watts max @ 250W out
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
Mechanical		
16	Dimensions	19" x 7" x 24"
17	Weight	80 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
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

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ VSWR protection
- ◇ RF Output power level

CIRCUIT INDICATIONS

- ◇ Forward Power
- ◇ Reflected power
- ◇ VSWR Fault
- ◇ Temp Fault
- ◇ Gain Setting (VVA) percentage

CIRCUIT CONTROL

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 25dB range
- ◇ VSWR protection Reset



ORDERING MODELS

- ◇ RE - Rear model w/Ethernet, RS232, IEEE-488 Interface
- ◇ FE - Front model w/Ethernet, RS232, IEEE-488 Interface