



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 5129-002
80 - 1000 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5129 is a 1000 Watt broadband amplifier that covers the 80 – 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.

Specifications subject to change without notice



	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	80 – 1000 MHz
2	Saturated Output Power	1000 Watts minimum
3	Small Signal Gain	+61 dB min
4	Gain Flatness Gain Flatness with ALC On	+/-3.5 dB +/-1.0dB
5	IP ₃	+65 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-15 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	8,000 Watts max
11	AC Input	186 – 264 VAC, three phase
12	RF Input	0 dB max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	AB
<u>Mechanical</u>		
15	Dimensions	42" x 24" x 30" (H x W x D)
16	Weight	550 lb. max
17	RF Connectors	Type-N for Input Type 7/16 DIN Connector for Output
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<u>Environmental</u>		
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

ORDERING MODELS

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

CIRCUIT CONTROL

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 20dB range
- ◇ VSWR protection Reset
- ◇ ALC On/ Off

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