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**MODEL 5127**  
**20 - 1000 MHz**  
**200 WATTS**  
**LINEAR POWER RF AMPLIFIER**

## Solid State Broadband High Power RF Amplifier

The 5127 is a 200 Watt broadband amplifier that covers the 20 – 1000 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> 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<sub>RF</sub> amplifiers, the 5127 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	20 – 1000 MHz
2	Saturated Output Power	200 Watts typical
3	Power Output @ 1dB Comp.	120 Watts min
4	Small Signal Gain	+54 dB min
5	Gain Flatness	± 3.0 dB max
6	IP <sub>3</sub>	+57 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 120 Watts
9	Spurious Signals	< -60 dBc typical @ 120 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	3000 Watts max
12	AC Input	200 – 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
<b>Mechanical</b>		
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
<b>Environmental</b>		
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

### CIRCUIT INDICATIONS

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

### ORDERING MODELS

- ◇ RE - Rear Panel model with RS232, IEEE, & Ethernet
- ◇ FE - Front Panel model with RS232, IEEE, & Ethernet

### CIRCUIT CONTROL

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

Specifications subject to change without notice.



FE Model Shown